

M. Trotter

BULLETIN
OF
WASHINGTON UNIVERSITY
SAINT LOUIS



SCHOOL OF MEDICINE

DECEMBER 31, 1939

WASHINGTON UNIVERSITY

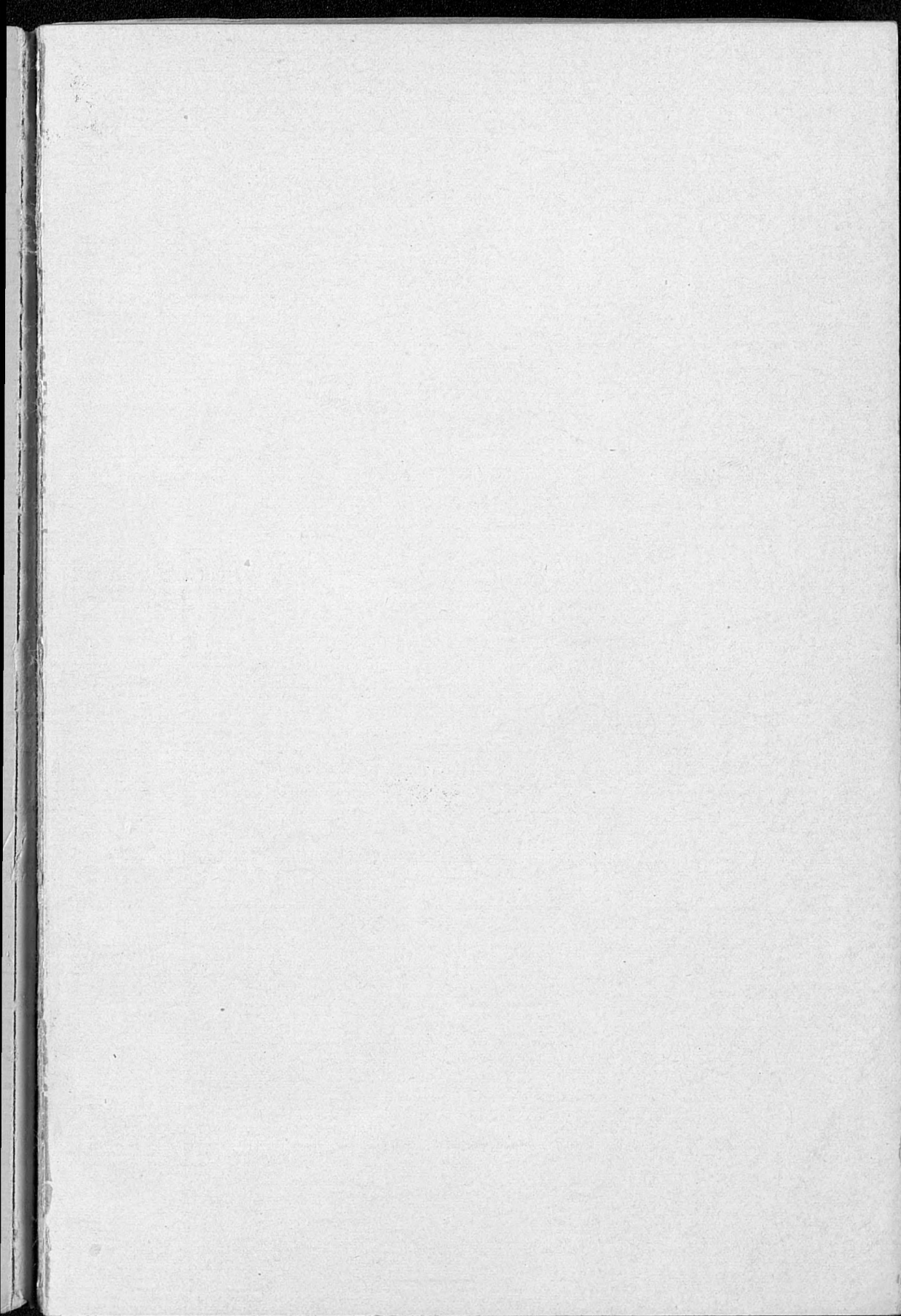
George R. Throop, Ph.D., LL.D., Bridge Chancellor

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

- The College of Liberal Arts
George W. Stephens, Ph.D., LL.D., Dean
- The School of Engineering
Alexander S. Langsdorf, M.M.E., Dean
- The School of Architecture
Alexander S. Langsdorf, M.M.E., Dean
- The School of Business and Public Administration
Isidor Loeb, LL.B., Ph.D., LL.D., Dean
- The Henry Shaw School of Botany
George T. Moore, Ph.D., Director
- The School of Graduate Studies
Frederick W. Shipley, Ph.D., LL.D., Litt.D., Dean
- The School of Law
Joseph A. McClain, Jr., A.B., LL.B., J.S.D., Dean
- The School of Medicine
Philip A. Shaffer, Ph.D., Dean
- The School of Dentistry
Benno E. Lischer, D.M.D., Dean
- The School of Nursing
Lucy F. Hoblitzelle, M.A., Acting Director
- The School of Fine Arts
Kenneth E. Hudson, B.F.A., Director
- The University College
Frank M. Debatin, A.M., Dean
- The Summer School
Isidor Loeb, LL.B., Ph.D., LL.D., Director

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

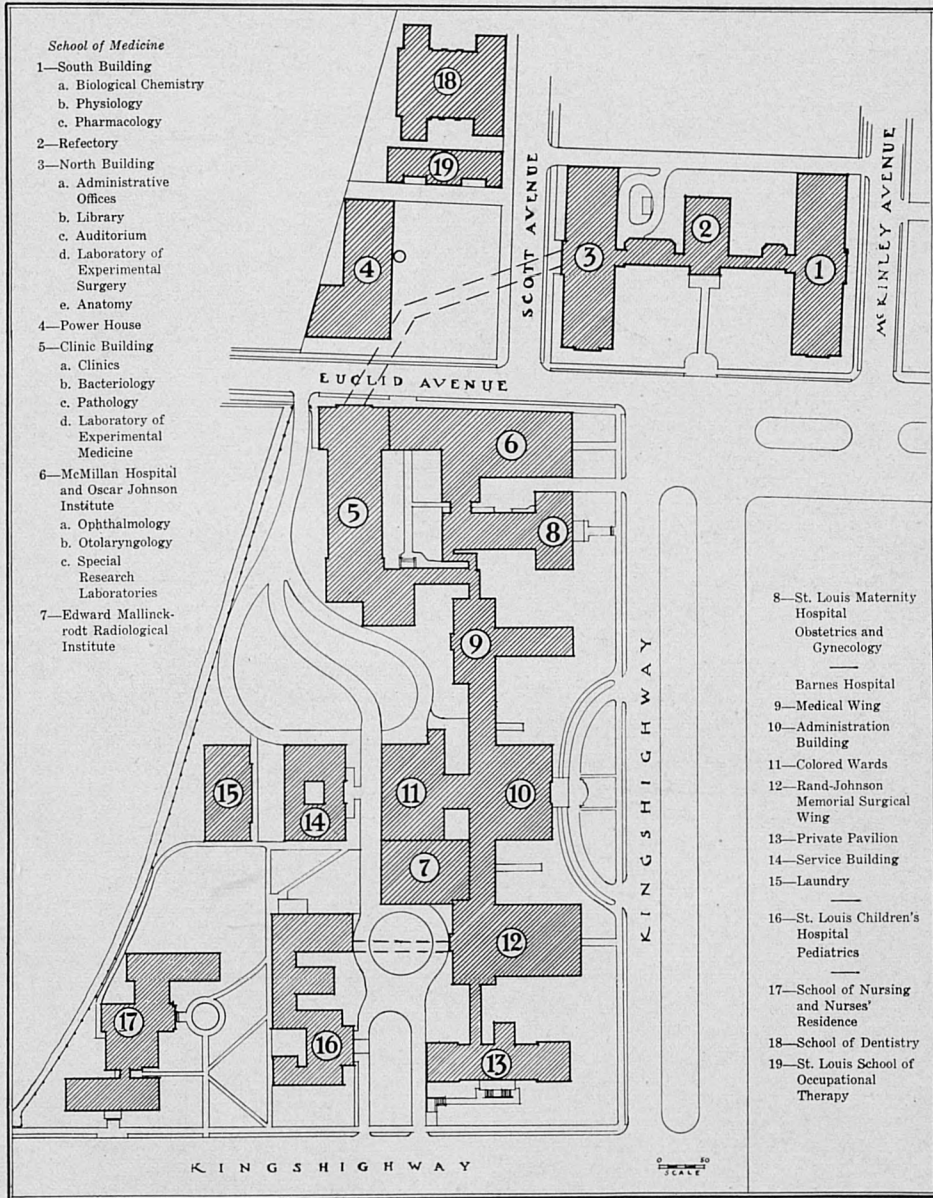
Mary Institute—A Preparatory School for Girls
(Ladue and Warson Roads)
Charles H. Garrison, A.B., Principal



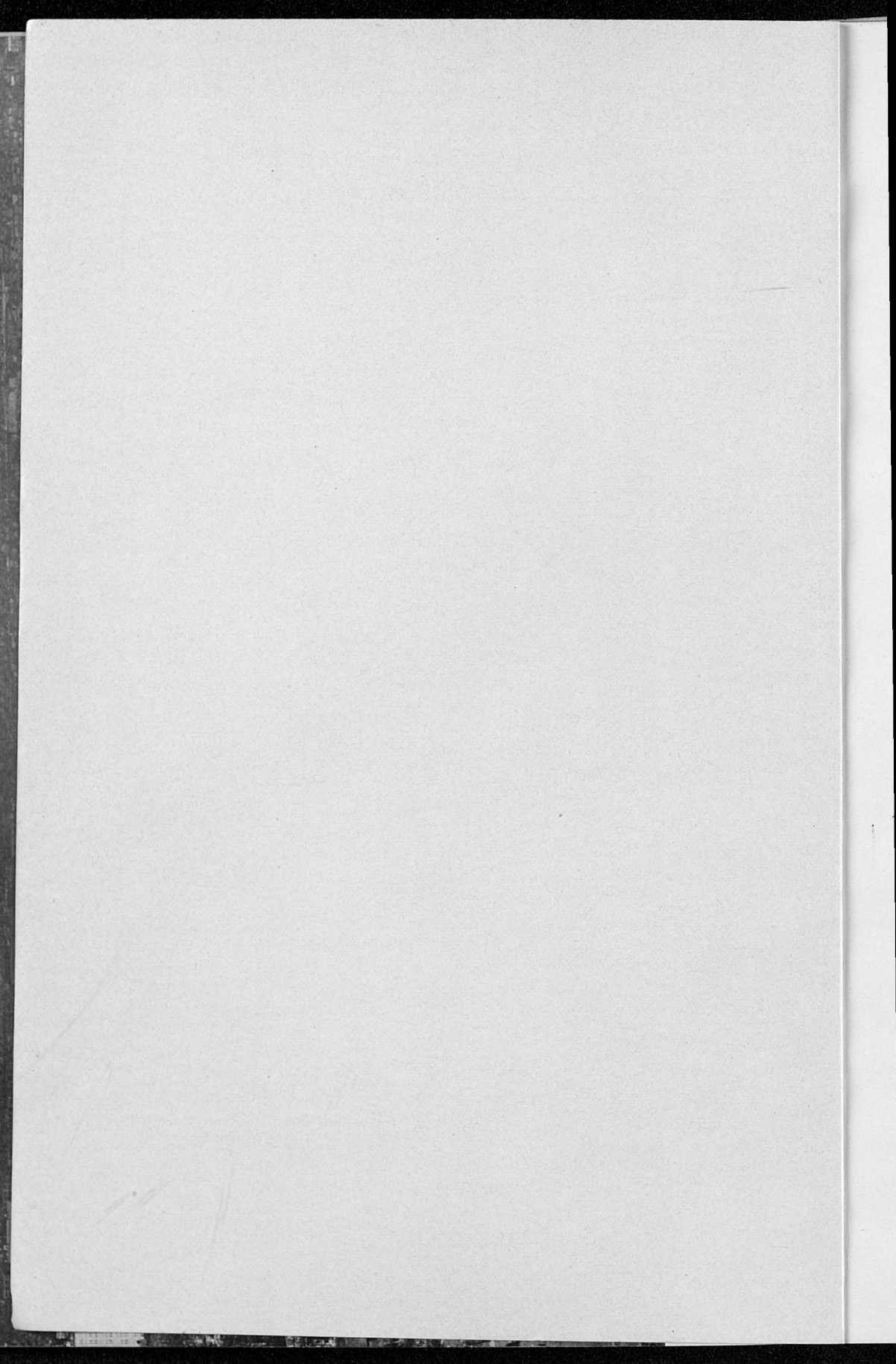


WASHINGTON UNIVERSITY MEDICAL GROUP

"Papin Aerial Surveys," St. Louis



Block Plan of Washington University
Medical Group and School of Dentistry



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of
WASHINGTON UNIVERSITY
SAINT LOUIS



SCHOOL OF MEDICINE

DECEMBER 31, 1939

PUBLICATIONS OF WASHINGTON UNIVERSITY
SERIES II VOLUME XXXVIII NUMBER I

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CALENDAR

1940

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	..	4	5	6	7	1	2	3	..	..	..	..	..	1	2	..	1	2	3	4	5	6
7	8	9	10	11	12	13	4	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
14	15	16	17	18	19	20	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
21	22	23	24	25	26	27	18	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
28	29	30	31	..	..	..	25	26	27	28	29	..	..	..	24	25	26	27	28	29	30	28	29	30	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..	..	..	..

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	..	..	..	..	..	..	1	..	1	2	3	4	5	6	..	..	..	..	..	1	2	3
5	6	7	8	9	10	11	..	3	4	5	6	7	8	7	8	9	10	11	12	13	..	4	5	6	7	8	9	10
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	25
26	27	28	29	30	31	..	23	24	25	26	27	28	29	28	29	30	31	25	26	27	28	29	30	31	..
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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	4	5	6	7	1	2	3	4	5	1	2	1	2	3	4	5	6	7	
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15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21	
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28	
29	30	27	28	29	30	31	24	25	26	27	28	29	30	29	30	31	
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1941

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
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26	27	28	29	30	31	..	23	24	25	26	27	28	..	23	24	25	26	27	28	29	27	28	29	30
..	30	31

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	1	2	3	4	5	6	7	..	1	2	3	4	5	..	..	..	..	..	1	2	3	
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12	..	4	5	6	7	8	9	10
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16	17
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	29	30	..	..	..	..	..	27	28	29	30	31	..	..	24	25	26	27	28	29	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	3	4	5	6	..	..	1	2	3	4	..	..	..	..	..	1	..	..	1	2	3	4	5	6
7	8	9	10	11	12	13	6	7	8	9	10	11	3	4	5	6	7	8	7	8	9	10	11	12	13	14		
14	15	16	17	18	19	20	13	14	15	16	17	18	10	11	12	13	14	15	14	15	16	17	18	19	20	21		
21	22	23	24	25	26	27	20	21	22	23	24	25	16	17	18	19	20	21	21	22	23	24	25	26	27	28		
28	29	30	26	27	28	29	30	31	..	23	24	25	26	27	28	29	28	29	30	31
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CALENDAR

1939-40

Registration for Second Half-Year, Monday, February 5, 1940.

Holiday, Washington's Birthday, Thursday, February 22, 1940.

Second Trimester ends Saturday, March 16, 1940.

Third Trimester begins Monday, March 18, 1940.

Holiday, Good Friday, March 22, and Saturday, March 23, 1940.

Holiday, Decoration Day, Thursday, May 30, 1940.

Third Trimester ends Saturday, June 1, 1940.

Final Examinations begin Monday, June 3, 1940.

Commencement, Tuesday, June 11, 1940.

1940-41

Registration, Tuesday, September 24, and Wednesday, September 25, 1940.

Examinations for Advanced Standing and Removal of Conditions, Monday, September 23, to Wednesday, September 25, 1940, inclusive.

Academic Year (First Trimester) begins Thursday, September 26, 1940.

Holiday, Thanksgiving Day.

First Trimester ends Saturday, December 21, 1940.

Second Trimester begins Monday, January 6, 1941.

Christmas Recess, Monday, December 23, 1940 to Saturday, January 4, 1941, inclusive.

Registration for Second Half-Year, Monday, February 3, 1941.

Holiday, Washington's Birthday, Saturday, February 22, 1941.

Second Trimester ends Saturday, March 22, 1941.

Third Trimester begins Monday, March 24, 1941.

Holiday, Good Friday, April 11, and Saturday, April 12, 1941.

Holiday, Decoration Day, Friday, May 30, 1941.

Third Trimester ends Friday, June 6, 1941.

Final Examinations begin Saturday, June 7, 1941.

Commencement, Tuesday, June 10, 1941.

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THE CORPORATION

President

MALVERN BRYAN CLOPTON

First Vice-President

ROBERT MCKITTRICK JONES

Second Vice-President

HARRY BROOKINGS WALLACE

Directors

CHARLES NAGEL	MALVERN BRYAN CLOPTON
GEORGE OLIVER CARPENTER ¹	EDWARD MALLINCKRODT, JR.
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ROBERT MCKITTRICK JONES	EUGENE DUTTON NIMS
HARRY BROOKINGS WALLACE	ERNEST WILLIAM STIX
WILLIAM HENRY DANFORTH	WILSON LINN HEMINGWAY
DANIEL KAYSER CATLIN	LEMUEL RAY CARTER
DANIEL NOYES KIRBY	JOHN BALTHASAR STRAUCH
EDGAR MONSANTO QUEENY	

Treasurer, and Secretary to the Corporation

JOSEPH HENRY ZUMBALEN

Office in Robert S. Brookings Hall, Skinker Road and
Lindell Boulevard

¹ Deceased, December 2, 1939.

OFFICERS OF GOVERNMENT AND INSTRUCTION¹

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

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

PHILIP ANDERSON SHAFFER *Dean*
A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904; Sc.D.,
University of Rochester, 1939.

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

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

PROFESSORS

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

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

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

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

EVARTS AMBROSE GRAHAM *Bixby Professor of Surgery*
Surgeon in Chief, Barnes and St. Louis Children's Hospitals; Surgeon, St.
Louis Maternity Hospital; Surgeon in Chief to Outpatients, University Clinics;
Consulting Surgeon, Homer G. Phillips Hospital.
A.B., Princeton University, 1904; M.D., Rush Medical College, 1907; M.S.
(hon.), Yale University, 1928; LL.D., Central College, 1926; Sc.D., University of
Cincinnati, 1927; Sc.D., Princeton University, 1929; Sc.D., Western Reserve
University, 1931.

DAVID PRESWICK BARR *Busch Professor of Medicine*
Physician in Chief, Barnes Hospital; Physician, St. Louis Maternity Hos-
pital; Physician in Chief to Outpatients, University Clinics; Consulting Physi-
cian, St. Louis City Hospital; Consultant in Medicine, Homer G. Phillips Hospital.
A.B., Cornell University, 1911; M.D., 1914; LL.D., Central College, 1928.

OTTO HENRY SCHWARZ *Professor of Obstetrics and Gynecology*
Obstetrician and Gynecologist in Chief, Barnes and St. Louis Maternity Hos-
pitals; Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecolo-
gist in Chief to Outpatients, University Clinics.
M.D., Washington University, 1913.

¹ Arranged in groups in order of appointment, as of December, 1939.

- SHERWOOD MOORE** *Professor of Radiology*
Roentgenologist, Barnes and St. Louis Maternity Hospitals; Radiologist, St. Louis Children's Hospital.
M.D., Washington University, 1905.
- LEE WALLACE DEAN** *Professor Emeritus of Otolaryngology and
Head of the Department*
Otolaryngologist in Chief, Barnes Hospital; Otolaryngologist, St. Louis Children's and St. Louis Maternity Hospitals; Otolaryngologist in Chief to Outpatients, University Clinics; Consulting Otolaryngologist, Homer G. Phillips Hospital.
B.S., University of Iowa, 1894; M.S., 1896; M.D., 1896.
- EDMUND VINCENT COWDRY** *Professor of Cytology*
B.A., University of Toronto, 1909; Ph.D., University of Chicago, 1912.
- JACQUES JACOB BRONFENBRENNER** *Professor of Bacteriology and
Immunology and of Public Health*
Bacteriologist, St. Louis Children's Hospital.
Ph.D., Columbia University, 1912; Dr.P.H., Harvard University, 1919.
- GEORGE HOLMAN BISHOP** *Professor of Biophysics*
A.B., University of Michigan, 1912; Ph.D., University of Wisconsin, 1920.
- CORDIA C. BUNCH** *Professor of Applied Physics in Otolaryngology*
Physicist, Barnes Hospital; Associate Otolaryngologist, St. Louis Children's Hospital.
A.B., Iowa State Teachers College, 1916; M.A., State University of Iowa, 1917; Ph.D., 1920.
- CARL F. CORI** *Professor of Pharmacology*
M.D., University of Prague, 1920.
- LAWRENCE TYLER POST** *Professor of Clinical Ophthalmology and
Head of the Department*
Ophthalmologist in Chief, Barnes Hospital; Ophthalmologist, St. Louis Children's and St. Louis Maternity Hospitals; Ophthalmologist in Chief to Outpatients, University Clinics; Visiting Ophthalmologist (Section Head), St. Louis City Hospital; Consulting Ophthalmologist, Homer G. Phillips Hospital.
A.B., Yale University, 1909; M.D., Johns Hopkins University, 1913.
- ALEXIS FRANK HARTMANN** *Professor of Pediatrics and Head of the
Department*
Physician in Chief, St. Louis Children's Hospital; Pediatrician in Chief, St. Louis Maternity Hospital; Pediatrician in Chief to Outpatients, University Clinics; Consultant in Pediatrics, St. Louis City and Homer G. Phillips Hospitals.
B.S., Washington University, 1919; M.S., 1921; M.D., 1921.
- JEAN VALJEAN COOKE** *Professor of Pediatrics*
Associate Physician, St. Louis Children's Hospital; Associate Pediatrician, St. Louis Maternity Hospital; Physician and Section Chief (Pediatrics), University Clinics.
A.B., West Virginia University, 1903; A.B., Yale University, 1904; M.D., Johns Hopkins University, 1908.
- CARLYLE FERDINAND JACOBSEN** *Professor of Medical Psychology*
Psychologist, Barnes and St. Louis Children's Hospitals; Consultant in Psychology, University Clinics; Consultant in Medical Psychology, Malcolm A. Bliss Psychiatric Institute.
A.B., University of Minnesota, 1924; Ph.D., 1928.
- DAVID MCKENZIE RIOCH** *Professor of Neurology and Head of the
Department of Neuropsychiatry*
Neurologist in Chief, Barnes Hospital; Neurologist, St. Louis Children's and St. Louis Maternity Hospitals; Neurologist in Chief, University Clinics; Visiting Physician in Neuropsychiatry (Section Head), St. Louis City Hospital; Consulting Physician and Section Director (Neuropsychiatry), Homer G. Phillips Hospital; Consulting Physician (Neurology), Malcolm A. Bliss Psychiatric Institute.
A.B., Butler College, 1920; M.D., Johns Hopkins University, 1924.
- JOHN CLARE WHITEHORN** *Professor of Psychiatry*
Psychiatrist in Chief, Barnes Hospital; Psychiatrist, St. Louis Children's and St. Louis Maternity Hospitals; Consultant in Psychiatry, University Clinics; Consulting Physician (Psychiatry), Homer G. Phillips Hospital; Visiting Physician and Section Head (Psychiatry), Malcolm A. Bliss Psychiatric Institute.
A.B., Doane College, 1916; M.D., Harvard University, 1921.

- ROBERT ALLAN MOORE** . *Edward Mallinckrodt Professor of Pathology*
Pathologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.
B.A., Ohio State University, 1921; M.D., 1928.
- WILLARD MYRON ALLEN**¹ *Professor-Elect of Obstetrics and Gynecology*
Associate Obstetrician and Gynecologist, St. Louis Maternity Hospital.
B.S., Hobart College, 1926; M.A., University of Rochester, 1929; M.D., 1932.
- ARTHUR LLEWELYN HUGHES** *Consulting Physicist*
B.Sc., Liverpool University, 1906; M.Sc., 1907; B.A., Cambridge University, 1910; D.Sc., 1912.
- JOHN VINCENT LAWRENCE** *Director of University Clinics and Assistant Professor of Medicine*
Assistant Physician, Barnes Hospital; Physician and Section Chief (Medicine), University Clinics.
B.S., University of Chicago, 1917; M.D., Rush Medical College, 1924.
- ELSWORTH STRIKER SMITH** . *Professor Emeritus of Clinical Medicine*
Assistant Physician, Barnes Hospital.
A.B., St. Louis University, 1887; M.D., St. Louis Medical College, 1890.
- HARRY STURGEON CROSSEN** . *Professor Emeritus of Clinical Obstetrics and Gynecology*
Consultant in Obstetrics and Gynecology, Barnes and St. Louis Maternity Hospitals; Consultant in Gynecology, St. Louis Children's Hospital.
M.D., Washington University, 1892.
- HUGO EHRENFEST** . . . *Professor Emeritus of Clinical Obstetrics and Gynecology*
Associate Obstetrician and Gynecologist, Barnes Hospital; Consultant in Obstetrics and Gynecology, St. Louis Maternity Hospital.
M.D., University of Vienna, 1894.
- MARTIN FEENEY ENGMAN** *Professor of Clinical Dermatology*
Dermatologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Dermatologist in Chief to Outpatients, University Clinics.
M.D., University of New York, 1891.
- BORDEN SMITH VEEDER** *Professor of Clinical Pediatrics*
Consulting Pediatrician, St. Louis Maternity Hospital; Consulting Physician, St. Louis Children's Hospital.
M.D., University of Pennsylvania, 1907.
- SIDNEY ISAAC SCHWAB** *Professor of Clinical Neurology*
Neurologist, Barnes and St. Louis Maternity Hospitals; Consulting Neurologist, St. Louis Children's Hospital; Consultant in Neurology, University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.
M.D., Harvard University, 1896.
- ERNEST SACHS** *Professor of Clinical Neurological Surgery*
Associate Surgeon, Barnes and St. Louis Children's Hospitals; Consulting Surgeon, St. Louis Maternity Hospital; Surgeon to Outpatients, University Clinics.
A.B., Harvard University, 1900; M.D., Johns Hopkins University, 1904.
- MAJOR GABRIEL SEELIG** *Professor of Clinical Surgery*
Assistant Surgeon, Barnes Hospital.
A.B., Harvard University, 1896; M.D., Columbia University, 1900.
- WILLIAM EWING SHAHAN** *Professor of Clinical Ophthalmology*
Associate Ophthalmologist, Barnes Hospital; Consulting Ophthalmologist, St. Louis Children's Hospital; Ophthalmologist to Outpatients, University Clinics.
A.B., Washington University, 1901; M.D., 1904; A.M., 1912.
- FREDERICK JOSEPH TAUSSIG** *Professor of Clinical Obstetrics and Gynecology*
Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.
A.B., Harvard University, 1893; M.D., St. Louis Medical College, 1893.

¹ Effective January 1, 1940.

VILRAY PAPIN BLAIR *Professor of Clinical Surgery*
Associate Surgeon, Barnes and St. Louis Children's Hospitals; Consulting Surgeon, St. Louis Maternity Hospital.
A.M., Christian Brothers College, 1890; M.D., Washington University, 1893.

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

ALBERT ERNEST TAUSSIG *Professor of Clinical Medicine*
Assistant Physician, Barnes Hospital; Consulting Physician, St. Louis City Hospital; Physician to Outpatients, University Clinics.
A.B., Harvard University, 1891; M.D., St. Louis Medical College, 1894.

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

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

GRANDISON DELANEY ROYSTON . *Professor of Clinical Obstetrics and Gynecology*
Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Associate Gynecologist, St. Louis Children's Hospital.
M.D., Washington University, 1907.

QUITMAN UNDERWOOD NEWELL . *Professor of Clinical Obstetrics and Gynecology*
Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Associate Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics.
M.D., University of Alabama, 1911.

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

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

VIRGIL LOEB *Lecturer in Stomatology*
Stomatologist, Barnes Hospital; Consulting Stomatologist, St. Louis Children's Hospital; Stomatologist, St. Louis Maternity Hospital.
A.B., University of Missouri, 1903; M.D., St. Louis University, 1906; D.D.S., 1906.

ASSOCIATE PROFESSORS

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

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

HARRY LOUIS ALEXANDER . . *Associate Professor of Clinical Medicine*
Associate Physician, Barnes and St. Louis Maternity Hospitals; Physician and Section Chief (Allergy), University Clinics; Consulting Physician, St. Louis City Hospital.
A.B., Williams College, 1910; M.D., Columbia University, 1914.

- WILLIAM FREDERIC HARDY** *Associate Professor of Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes Hospital; Ophthalmologist to Outpatients, University Clinics.
M.D., Washington University, 1901.
- GLOVER H. COPHER** *Associate Professor of Clinical Surgery*
Assistant Surgeon, Barnes Hospital; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals.
A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- WILLIAM HARWOOD OLMSTED** *Associate Professor of Clinical Medicine*
Assistant Physician, Barnes Hospital; Consulting Physician, St. Louis City Hospital.
B.S., Coe College, 1909; M.D., Johns Hopkins University, 1913.
- MILDRED TROTTER** *Associate Professor of Anatomy*
A.B., Mount Holyoke College, 1920; M.S., Washington University, 1921; Ph.D., 1924.
- ARTHUR SCOTT GILSON, JR.** *Associate Professor of Physiology*
B.S., Dartmouth College, 1919; A.M., Harvard University, 1922; Ph.D., 1924.
- LOUIS A. JULIANELLE** *Associate Professor of Applied Bacteriology and Immunology in Ophthalmology*
Associate Bacteriologist, St. Louis Children's Hospital.
B.A., Yale University, 1917; M.S., 1919; Ph.D., University of Pennsylvania, 1922.
- DREW WILLIAM LUTEN** *Associate Professor of Clinical Medicine*
Assistant Physician, Barnes Hospital.
A.B., University of Kentucky, 1901; M.D., Johns Hopkins University, 1911.
- JOSEPH WILLIAM LARIMORE** *Associate Professor of Clinical Medicine*
Assistant Roentgenologist, Barnes Hospital; Assistant Radiologist, St. Louis Children's Hospital.
A.B., DePauw University, 1908; M.D., Washington University, 1913.
- GORDON H. SCOTT** *Associate Professor of Cytology*
A.B., Southwestern College, 1922; A.M., University of Minnesota, 1925; Ph.D., 1926.
- THEODORE C. HEMPELMANN** *Associate Professor of Clinical Pediatrics*
Consulting Physician, St. Louis Children's Hospital; Consulting Pediatrician, St. Louis Maternity Hospital.
M.D., Washington University, 1908.
- HARRY WEBSTER LYMAN** *Associate Professor of Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Otolaryngologist to Outpatients, University Clinics.
M.D., St. Louis College of Physicians and Surgeons, 1895.
- JAMES LEE O'LEARY** *Associate Professor of Cytology*
B.S., University of Chicago, 1925; Ph.D., 1928; M.D., 1931.
- FREDERICK ENO WOODRUFF** *Associate Professor of Clinical Ophthalmology*
Consulting Ophthalmologist, St. Louis Children's Hospital; Assistant Ophthalmologist, Barnes Hospital; Ophthalmologist to Outpatients, University Clinics.
M.D., Missouri Medical College, 1897; A.B., Washington University, 1923.
- ROBERT ELMAN** *Associate Professor of Clinical Surgery*
Assistant Surgeon, Barnes Hospital; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon and Section Chief (General Surgery), University Clinics; Visiting Surgeon, St. Louis City Hospital; Visiting Surgeon (Section Director), Homer G. Phillips Hospital.
B.S., Harvard University, 1919; M.D., Johns Hopkins University, 1922.
- PETER HEINBECKER** *Associate Professor of Clinical Surgery*
Assistant Surgeon, Barnes Hospital; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients, University Clinics; Visiting Surgeon and Section Head (General Surgery), St. Louis City Hospital.
B.A., McGill University, 1918; M.D., 1921.

JAMES BARRETT BROWN *Associate Professor of Clinical Surgery*
 Assistant Surgeon, Barnes Hospital; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients, University Clinics; Visiting Surgeon and Section Head (Plastic), St. Louis City Hospital; Consulting Surgeon (Plastic), Homer G. Phillips Hospital.
 M.D., Washington University, 1923.

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

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

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

MARTIN HAYWARD POST *Associate Professor of Clinical Ophthalmology*
 Assistant Ophthalmologist, Barnes and St. Louis Maternity Hospitals; Ophthalmologist to Outpatients, University Clinics.
 A.B., Amherst College, 1908; M.D., Johns Hopkins University, 1912.

NATHAN ANTHONY WOMACK . *Associate Professor of Clinical Surgery*
 Assistant Surgeon, Barnes and St. Louis Maternity Hospitals; Associate Surgeon, St. Louis Children's Hospital; Surgeon to Outpatients, University Clinics; Visiting Surgeon, St. Louis City Hospital.
 B.S., University of North Carolina, 1922; M.D., Washington University, 1924.

LEONARD THOMPSON FURLOW *Associate Professor of Clinical Neurological Surgery*
 Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Visiting Surgeon and Section Head (Neurological), St. Louis City Hospital; Consulting Surgeon (Neurological), Homer G. Phillips Hospital.
 B.S., Emory University, 1923; M.D., 1925.

FELIX DEUTSCH *Associate Professor of Clinical Psychosomatic Medicine*
 Associate Psychiatrist, Barnes Hospital; Physician to Outpatients (Neuro-psychiatry), University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.
 M.D., University of Vienna, 1909.

ROBERT LYSTER THORNTON . *Physicist in Charge of the Cyclotron of the Radiological Institute*
 B.S., McGill, 1930; Ph.D., 1936.

ASSISTANT PROFESSORS

WILLARD BARTLETT *Assistant Professor of Clinical Surgery*
 A.B., Illinois College, 1892; A.M., 1898; D.Sc., 1926; M.D., Marion Sims College of Medicine, 1895.

ARTHUR OSCAR FISHER *Assistant Professor of Clinical Surgery*
 Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.
 A.B., University of Wisconsin, 1905; M.D., Johns Hopkins University, 1909.

FRANK HENRY EWERHARDT *Assistant Professor of Physical Therapeutics*
 Physician in Charge of Physical Therapeutics, Barnes and St. Louis Children's Hospitals; Consulting Physician (Physical Therapy), Homer G. Phillips Hospital; Surgeon to Outpatients (Orthopedic), University Clinics.
 M.D., Washington University, 1910.

- MILLARD FILLMORE ARBUCKLE . . . *Assistant Professor of Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals.
M.D., Washington University, 1909.
- ARTHUR MAXWELL ALDEN *Assistant Professor of Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics; Consulting Otolaryngologist, St. Louis City Hospital.
A.B., University of Oklahoma, 1907; A.M., 1909; M.D., St. Louis University, 1915.
- HAROLD ATEN BULGER *Assistant Professor of Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Consulting Physician (Diabetes and Metabolic Diseases), Homer G. Phillips Hospital.
B.S., Ohio State University, 1916; M.D., Harvard University, 1920.
- CHARLES ALLEN STONE . . *Assistant Professor of Clinical Orthopedic Surgery*
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients (Orthopedic), University Clinics.
B.S., Blackburn College, 1904; M.D., Washington University, 1908.
- MAX WILLIAM JACOBS . *Assistant Professor of Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes and St. Louis Maternity Hospitals; Ophthalmologist to Outpatients, University Clinics.
A.B., Washington University, 1902; M.D., 1905.
- DUFF SHEDERIC ALLEN . . . *Assistant Professor of Clinical Surgery*
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.
M.D., Washington University, 1919.
- FREDERICK OSCAR SCHWARTZ *Assistant Professor of Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes Hospital; Ophthalmologist to Outpatients, University Clinics.
M.D., Washington University, 1910.
- HARVEY DENSMORE LAMB *Assistant Professor of Ophthalmic Pathology*
Assistant Ophthalmologist, Barnes Hospital.
A.B., Washington University, 1906; M.D., 1910.
- RICHARD SIMON WEISS . *Assistant Professor of Clinical Dermatology*
Assistant Dermatologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Physician and Section Chief (Dermatology), University Clinics.
M.D., Washington University, 1909.
- ETHEL RONZONI BISHOP . *Assistant Professor of Biological Chemistry*
B.S., Mills College, 1913; A.M., Columbia University, 1914; Ph.D., University of Wisconsin, 1922.
- FRANK POWELL MCNALLEY . *Assistant Professor of Clinical Obstetrics and Gynecology*
Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Gynecologist, St. Louis Children's Hospital.
B.S., Washington University, 1915; M.D., 1917.
- CHARLES DARRELL O'KEEFE . *Assistant Professor of Clinical Obstetrics and Gynecology*
Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Gynecologist, St. Louis Children's Hospital.
A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- LAWRENCE DORLAND THOMPSON . . . *Assistant Professor of Clinical Medicine*
Assistant Physician, Barnes Hospital.
B.S., Rutgers College, 1917; M.D., Cornell University, 1922.
- GEORGE DEE WILLIAMS *Assistant Professor of Anatomy*
A.B., Ohio State University, 1919; M.D., 1922; A.M., Harvard University, 1926; Ph.D., 1929.

- ISAAC DEE KELLEY, JR. *Assistant Professor of Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospital; Otolaryngologist to Outpatients, University Clinics.
B.S., St. Louis University, 1903; M.D., 1908.
- MARGARET GLADYS SMITH *Assistant Professor of Pathology*
Assistant Pathologist, St. Louis Children's Hospital; Associate Pathologist, St. Louis Maternity Hospital.
A.B., Mount Holyoke College, 1918; M.D., Johns Hopkins University, 1922.
- ANDREW BLUCHER JONES *Assistant Professor of Clinical Neurology*
Assistant Neurologist, Barnes and St. Louis Children's Hospitals; Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.
M.D., Vanderbilt University, 1916.
- RICHARD PADDOCK *Assistant Professor of Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes Hospital; Associate Obstetrician and Gynecologist, St. Louis Maternity Hospital.
M.D., Washington University, 1921.
- FRENCH KELLER HANSEL *Assistant Professor of Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics.
M.D., St. Louis University, 1918; M.S., University of Minnesota, 1923.
- GEORGE EDWIN HOURN *Assistant Professor of Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics.
D.D.S., University of Minnesota, 1903; M.D., Washington University, 1913.
- CLARENCE HARRISON CREGO, JR. *Assistant Professor of Clinical Orthopedic Surgery*
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.
B.S., Union University, 1921; M.D., University of Michigan, 1923.
- FRANK URBAN *Assistant Professor of Biological Chemistry*
B.S., University of Wisconsin, 1925; Ph.D., 1928.
- OTTO ST. CLAIR KREBS *Assistant Professor of Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes Hospital; Associate Obstetrician and Gynecologist, St. Louis Maternity Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics.
B.S., Washington University, 1917; M.D., 1919.
- BENNETT YOUNG ALVIS *Assistant Professor of Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Ophthalmologist to Outpatients, University Clinics.
B.S., St. Louis University, 1916; M.D., 1918.
- BERNARD JOHN MCMAHON *Assistant Professor of Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics.
A.B., St. Louis University, 1913; M.D., 1917; M.Sc. (Med.), Graduate School of Medicine, University of Pennsylvania, 1926.
- LOUIS JOSEPH BIRSNER *Assistant Professor of Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics; Visiting Otolaryngologist (Section Director), Homer G. Phillips Hospital.
A.B., St. Louis University, 1915; M.D., 1915.
- WILLIAM BRYAN KOUNTZ *Assistant Professor of Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
M.D., Washington University, 1926.
- GEORGE ARTHUR SEIB *Assistant Professor of Anatomy*
A.B., Washington University, 1924; M.D., 1928.

JAMES BRAY COSTEN . . . *Assistant Professor of Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics; Consulting Otolaryngologist, St. Louis City Hospital.

A.B., University of Arkansas, 1916; M.D., Washington University, 1922.

ARCHIE DREYFUS CARR . . . *Assistant Professor of Clinical Neurology*
Assistant Neurologist, Barnes and St. Louis Children's Hospitals; Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician (Neuropsychiatry), St. Louis City Hospital; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.

B.S., Washington University, 1918; M.D., 1921.

PHILIP LEONARD VARNEY . . . *Assistant Professor of Bacteriology and Immunology and of Public Health*

B.S., Oregon Agricultural College, 1923; M.S., Washington University, 1926; Ph.D., 1933.

DOROTHY WOLFF *Assistant Professor of Applied Anatomy in Otolaryngology*

A.B., Smith College, 1918; A.M., University of Michigan, 1928; Ph.D., Washington University, 1933.

THEODORE PREWITT BROOKES *Assistant Professor of Clinical Orthopedic Surgery*

Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients (Orthopedic), University Clinics; Visiting Surgeon (Orthopedic), St. Louis City Hospital.

M.D., Washington University, 1909.

ROBERT JAMES CROSSEN . . . *Assistant Professor of Clinical Obstetrics and Gynecology*

Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics.

A.B., Oberlin College, 1921; M.D., Washington University, 1925.

AVERY PECK ROWLETTE . . . *Assistant Professor of Clinical Surgery*

M.D., Washington University, 1929.

JULIUS JENSEN *Assistant Professor of Clinical Medicine*

Assistant Physician, Barnes Hospital; Associate Physician, St. Louis Maternity Hospital; Visiting Physician, St. Louis City Hospital.

M.R.C.S., England, 1922; L.R.C.P., University of London, 1923; Ph.D., University of Minnesota, 1929.

ROGERS DEAKIN *Assistant Professor of Clinical Genitourinary Surgery*

Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon and Section Chief (Genitourinary), University Clinics.

M.D., Washington University, 1922.

CECIL MARVIN CHARLES *Assistant Professor of Anatomy and Assistant in Clinical Medicine*

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Consulting Physician (Medical Clinic), Homer G. Phillips Hospital.

A.B., University of Kentucky, 1926; A.M., 1927; Ph.D., Washington University, 1929; M.D., 1933.

CYRIL MITCHELL MACBRYDE *Assistant Professor of Medicine*

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician, St. Louis City Hospital

A.B., Washington University, 1926; M.D., Harvard University, 1930.

WENDELL GARRISON SCOTT . . . *Assistant Professor of Clinical Radiology*

Assistant Roentgenologist, Barnes Hospital; Assistant Radiologist, St. Louis Children's Hospital.

A.B., University of Colorado, 1928; M.D., Washington University, 1932.

THOMAS PALMER FINDLEY, JR. *Assistant Professor of Clinical Medicine*

Assistant Physician, Barnes Hospital; Visiting Physician (Section Head), St. Louis City Hospital.

A.B., Princeton University, 1923; M.D., University of Chicago, 1927.

- CARL VERNON MOORE *Assistant Professor of Medicine*
 Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician, St. Louis City Hospital; Consulting Physician (Hematology), Homer G. Phillips Hospital.
 A.B., Washington University, 1928; M.D., 1932.
- ELI EDWIN BROWN . . . *Assistant Professor of Military Science and Tactics*
 Lieutenant Colonel, Medical Corps, U. S. Army.
 M.D., Baylor University, 1915.
- WARREN ROBERT RAINEY . . . *Assistant Professor of Clinical Surgery*
 Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients, University Clinics; Consulting Surgeon (Proctology), Homer G. Phillips Hospital.
 M.D., Northwestern University, 1910.
- VAL BEYER SATTERFIELD . . . *Assistant Professor of Clinical Psychiatry*
 Assistant Neurologist, Barnes Hospital; Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.
 B.S., Washington University, 1922; M.D., 1924.
- ALFRED D. HERSHEY *Assistant Professor of Bacteriology and Immunology*
 Ph.D., Michigan State College, 1934.
- LOUIS LEON TUREEN *Assistant Professor of Clinical Neurology*
 Assistant Neurologist, Barnes Hospital; Physician and Section Chief (Neurology), University Clinics; Visiting Physician in Neuropsychiatry, St. Louis City and Homer G. Phillips Hospitals and Malcolm A. Bliss Psychiatric Institute.
 B.S., Washington University, 1925; M.D., 1927.
- FREDERICK AUGUSTUS JOSTES *Assistant Professor of Clinical Orthopedic Surgery*
 Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Assistant Surgeon to Outpatients (Orthopedic), University Clinics; Visiting Surgeon (Orthopedic), St. Louis City Hospital.
 B.S., Washington University, 1918; M.D., 1920.
- GEORGE DAVID KETTELKAMP¹ . . . *Assistant Professor of Clinical Medicine*
 A.B., Central Wesleyan College, 1910; M.D., Washington University, 1914.
- GERALDINE LERMIT *Lecturer on Occupational Therapy*
 A.B., Wellesley College, 1906; Ph.M., University of Chicago, 1907.

RESEARCH ASSOCIATES

- SAMUEL HOWARD BARTLEY . . . *Research Associate in Biophysics and Psychology*
 B.S., Greenville College, 1923; A.M., University of Kansas, 1928; Ph.D., 1931.
- GERTY T. CORI *Research Associate in Pharmacology*
 M.D., University of Prague, 1920.
- MARTIN SILBERBERG *Research Associate in Pathology*
 M.D., University of Breslau, 1920.

INSTRUCTORS

- WALTER BAUMGARTEN *Instructor in Clinical Medicine*
 Assistant Physician, Barnes Hospital.
 A.B., Johns Hopkins University, 1894; M.D., St. Louis Medical College, 1896.
- JEROME EPSTEIN COOK *Instructor in Clinical Medicine*
 Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
 M.D., Washington University, 1905.
- LEWELLYN SALE *Instructor in Clinical Medicine*
 Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Consulting Physician, St. Louis City Hospital.
 M.D., Washington University, 1907.

¹ Effective December 1, 1939.

- ADRIEN BLEYER *Instructor in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.
M.D., Missouri Medical College, 1899.
- LOUIS HENRY HEMPELMANN *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital.
M.D., St. Louis Medical College, 1896.
- WALTER FISCHEL *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
A.B., Harvard University, 1902; M.D., Washington University, 1905.
- ADOLPH HENRY CONRAD *Instructor in Clinical Dermatology*
Assistant Dermatologist, Barnes Hospital; Physician to Outpatients (Dermatology), University Clinics.
M.D., St. Louis University, 1906.
- FRANK DE VORE GORHAM *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital.
A.B., Indiana University, 1910; M.D., Washington University, 1912.
- ADOLPH GEORGE SCHLOSSSTEIN *Instructor in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.
M.D., St. Louis Medical College, 1894.
- CHARLES HERMANN EYERMANN *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Consulting Physician, St. Louis City Hospital; Physician to Outpatients, University Clinics.
M.D., St. Louis University, 1911.
- ARTHUR EDGAR STRAUSS *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician and Section Chief (Cardiovascular), University Clinics.
S.B., Harvard University, 1912; M.D., 1917.
- PARK JERAULD WHITE *Instructor in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.
A.B., Harvard University, 1913; M.D., Columbia University, 1917.
- SAMUEL BECKER GRANT *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital.
B.S., Washington University, 1918; M.D., 1920.
- PAUL JOHN ZENTAY *Instructor in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.
M.D., University of Kolozsvár, 1914.
- LEE DE CADY *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
A.B., University of Missouri, 1918; A.M., Washington University, 1921; M.D., 1922.
- PAUL EDWARD KUBITSCHKEK *Instructor in Child Psychiatry and in Pediatrics*
Assistant Neurologist, Barnes Hospital; Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.
B.S., Creighton University, 1918; M.D., 1922; D.Sc., University of Pennsylvania, 1928.
- WAYNE ARTHUR RUPE *Instructor in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Visiting Pediatrician (Section Director), Homer G. Phillips Hospital.
A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- ALFRED GOLDMAN *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital.
A.B., Washington University, 1916; M.D., 1920.

- HIRAM SHAW LIGGETT** *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
M.D., Washington University, 1920.
- CHARLES WILLIAM DUDEN** *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Associate Physician, St. Louis Maternity Hospital; Visiting Physician, St. Louis City Hospital.
M.D., Washington University, 1926.
- IRENE KOECHIG FREIBERG** *Instructor in Biological Chemistry*
A.B., Washington University, 1912; A.M., 1913.
- JOSEPH FRANCIS BREDECK** *Instructor in Clinical Medicine and
Lecturer in Public Health Administration*
Assistant Physician, Barnes Hospital.
A.B., Christian Brothers College, 1910; M.D., Washington University, 1914;
D.P.H., University of Pennsylvania, 1917.
- ANTHONY BIGELOW DAY** *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
B.S., Harvard University, 1913; M.D., Washington University, 1919.
- ROLAND M. KLEMME** *Instructor in Clinical Neurological Surgery*
Assistant Surgeon, Barnes and St. Louis Children's Hospitals.
M.D., Washington University, 1921.
- CHARLES DRABKIN** *Instructor in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics.
A.B., Stanford University, 1922; M.D., Washington University, 1924.
- KATHERINE BAIN** *Instructor in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Physician to Outpatients (Pediatrics), University Clinics.
A.B., University of Missouri, 1921; M.D., Washington University, 1925.
- GROVER HEWITT POOS** *Instructor in Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes Hospital; Ophthalmologist to Outpatients, University Clinics; Visiting Ophthalmologist, St. Louis City Hospital.
M.D., St. Louis College of Physicians and Surgeons, 1905.
- HOWARD A. RUSK** *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
A.B., University of Missouri, 1923; M.D., University of Pennsylvania, 1925.
- CARL REINARD WEGNER** *Instructor in Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, St. Louis Maternity and Barnes Hospitals; Assistant Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics; Special Consultant in Obstetrics and Gynecology (Toxemias of Pregnancy), St. Louis City and Homer G. Phillips Hospitals.
A.B., North Central College, 1922; M.D., University of Nebraska, 1926.
- WILLIAM MAHLON JAMES** *Instructor in Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Ophthalmologist to Outpatients, University Clinics.
B.S., Drury College, 1923; M.D., Washington University, 1926.
- ALFRED J. CONE** *Instructor in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics.
B.S., State University of Iowa, 1921; M.D., 1923; M.S., 1926.
- ANNE MACGREGOR PERLEY** *Instructor in Biological Chemistry in
Pediatrics*
Assistant Chemist in Metabolism, St. Louis Children's Hospital.
A.B., Grinnell College, 1927; A.M., University of Nebraska, 1929.
- OSCAR CHARLES ZINK** *Instructor in Clinical Radiology*
Assistant Roentgenologist, Barnes Hospital; Assistant Radiologist, St. Louis Children's Hospital.
M.D., Washington University, 1921.

- JOSEPH HOY SANFORD** . *Instructor in Clinical Genitourinary Surgery*
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.
M.D., Tulane Medical College, 1908.
- OTTO JULIUS WILHELMI** . *Instructor in Clinical Genitourinary Surgery*
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Visiting Surgeon (Genitourinary), St. Louis City Hospital.
B.S., Washington University, 1915; M.D., St. Louis University, 1917.
- JOHN E. HOBBS** *Instructor in Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecologist (Section Chief), University Clinics.
A.B., Southwest Missouri State Teachers' College, 1923; M.D., Washington University, 1927.
- HENRY SPENCE BROOKES, JR.** *Instructor in Clinical Surgery*
Assistant Surgeon, Barnes Hospital; Surgeon to Outpatients, University Clinics; Visiting Surgeon, Homer G. Phillips Hospital.
M.D., Washington University, 1917.
- J. G. PROBSTEIN** *Instructor in Clinical Surgery*
Surgeon to Outpatients, University Clinics; Visiting Surgeon, Homer G. Phillips Hospital.
M.D., Loyola University, 1917.
- CARLISS MALONE STROUD** *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Visiting Physician, St. Louis City Hospital; Consulting Physician (Allergy), Homer G. Phillips Hospital.
B.S., University of Mississippi, 1924; M.D., Washington University, 1926.
- LOUIS F. AITKEN** *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician and Section Chief (Venereal), University Clinics.
B.S., University of Illinois, 1923; M.D., Washington University, 1927.
- HUBERT BEAUFORT PEUGNET** *Instructor in Physiology*
A.B., St. Louis University, 1924; M.D., 1930.
- EDGAR ALLAN BLAIR** *Instructor in Physiology*
A.B., Vanderbilt University, 1925; M.S., 1927; Ph.D., Washington University, 1938.
- J. TED JEAN** . *Instructor in Clinical Medicine and Physician to Medical and Dental Students*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
A.B., Indiana University, 1924; M.D., Washington University, 1928.
- LAWRENCE GOLDMAN** *Instructor in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.
A.B., Washington University, 1924; M.D., 1928.
- GROVER BERNARD LIESE** *Instructor in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics.
A.B., Real-Gymnasium, Cassel, Germany, 1910; M.D., University of Heidelberg, 1918.
- DUDLEY REEVES SMITH** *Instructor in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist (Section Chief), University Clinics; Visiting Obstetrician and Gynecologist, St. Louis City Hospital.
M.D., Washington University, 1923.
- HOWARD ROMMEL HILDRETH** . . *Instructor in Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Ophthalmologist to Outpatients, University Clinics.
M.D., Washington University, 1928.

- CARL CONRAD BEISBARTH** . . . *Instructor in Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes Hospital; Ophthalmologist to Outpatients, University Clinics.
B.S., St. Louis University, 1924; M.D., 1926.
- WILLIAM GOODWIN COLEMAN** . . . *Instructor in Clinical Dermatology*
Assistant Dermatologist, Barnes Hospital; Physician to Outpatients (Dermatology), University Clinics; Visiting Physician (Dermatology), St. Louis City Hospital.
B.S., Washington University, 1917; M.D., 1919.
- CLINTON WELSH LANE** *Instructor in Clinical Dermatology*
Assistant Dermatologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Physician to Outpatients (Dermatology), University Clinics; Visiting Physician and Section Head (Dermatology), St. Louis City Hospital.
A.B., St. Mary's College (Kansas), 1916; M.D., St. Louis University, 1921.
- SAMUEL DAVID SOULE** *Instructor in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist, St. Louis City Hospital.
M.D., Washington University, 1928.
- ROBERT VOTAW** *Instructor in Otolaryngology*
Assistant Otolaryngologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.
B.S., State University of Iowa, 1927; M.D., 1929.
- MARTIN FEENEY ENGMAN, JR.** . . . *Instructor in Clinical Dermatology*
Assistant Dermatologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.
M.D., Washington University, 1928.
- HIROMU TSUCHIYA** . *Instructor in Bacteriology and Immunology and in Public Health*
Parasitologist, Barnes Hospital.
A.B., University of Missouri, 1913; Sc.D., Johns Hopkins University, 1930.
- A. NORMAN ARNESON** . *Instructor in Clinical Radiology and in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Radiologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics; Special Consultant in Obstetrics and Gynecology (Cases of Malignancy), St. Louis City and Homer G. Phillips Hospitals.
B.S., Texas Christian University, 1924; M.D., Washington University, 1928.
- PAUL WILLIAM PREISLER** *Instructor in Biological Chemistry*
B.S., Washington University, 1923; M.S., 1925; Ph.D., 1927.
- LEON BROMBERG** *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician, St. Louis City Hospital; Consulting Physician (Syphilology), Homer G. Phillips Hospital.
A.B., Rice Institute, 1920; M.D., Vanderbilt University, 1924.
- EDWIN HENRY ROHLFING** *Instructor in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Physician to Outpatients (Pediatrics), University Clinics.
M.D., Washington University, 1919.
- MAX DEUTCH** *Instructor in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Physician to Outpatients (Pediatrics), University Clinics.
M.D., Washington University, 1926.
- FREDERICK AUGUST JACOBS** *Instructor in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Physician to Outpatients (Pediatrics), University Clinics.
B.S., Washington University, 1927; M.D., 1928.

LEO GOTTLIEB *Instructor in Clinical Medicine*
 Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician (Section Director), Homer G. Phillips Hospital.
 A.B., University of Kansas, 1928; A.M., 1932; M.D., Washington University, 1932.

STANLEY LEONARD HARRISON *Instructor in Clinical Pediatrics*
 Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Physician to Outpatients (Pediatrics), University Clinics; Visiting Pediatrician, Homer G. Phillips Hospital.
 B.S., Washington University, 1928; M.D., 1930.

DANIEL WILBUR MYERS *Instructor in Medicine*
 Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician, St. Louis City Hospital; Consulting Physician (Chest), Homer G. Phillips Hospital.
 A.B., University of Michigan, 1929; M.D., 1932.

ARNOLD DEMERRITT WELCH *Instructor in Pharmacology*
 B.S., University of Florida, 1930; M.S., 1931; Ph.D., University of Toronto, 1934; M.D., Washington University, 1939.

JOSEPH CABELL JAUDON *Instructor in Clinical Pediatrics*
 Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Visiting Pediatrician (Section Head), St. Louis City Hospital.
 A.B., Washington University, 1926; M.D., 1933.

FRANKLIN EDWARD WALTON *Instructor in Clinical Surgery*
 Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon, St. Louis City Hospital.
 B.S., Shurtleff College, 1923; M.D., Washington University, 1927.

MARION CLAIRE MORRIS *Instructor in Bacteriology and Immunology*
 A.B., Smith College, 1923; M.S., Washington University, 1931; Ph.D., 1935.

MELVIN ANDREW ROBLEE *Instructor in Clinical Obstetrics and Gynecology*
 Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics.
 B.S., Washington University, 1923; M.D., 1925.

KEVIN CHARLES MORRIN *Instructor in Clinical Obstetrics and Gynecology*
 Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics.
 M.B., B.Ch., National University of Ireland, 1921.

SOL LONDE *Instructor in Clinical Pediatrics*
 Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Assistant Physician to Outpatients (Pediatrics), University Clinics.
 B.S., Washington University, 1925; M.D., 1927.

ADOLPH CHARLES LANGE *Instructor in Clinical Ophthalmology*
 Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Ophthalmologist (Section Chief), University Clinics.
 B.S., Washington University, 1928; M.D., 1930.

JAY CRAWFORD *Instructor in Clinical Ophthalmology*
 Ophthalmologist to Outpatients, University Clinics.
 A.B., Mifflintown Academy, 1902; B.S., Spring Garden Institute, 1905; M.D., Temple Medical College, 1906.

BARRETT LEARNED TAUSSIG *Instructor in Clinical Medicine*
 Assistant Physician, Barnes Hospital.
 A.B., Harvard University, 1928; M.D., Washington University, 1932.

BRIAN BREWER BLADES *Instructor in Clinical Surgery*
 Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Consulting Surgeon (Chest), Homer G. Phillips Hospital.
 A.B., University of Kansas, 1928; M.D., Washington University, 1932.

- RUSSELL JOHN BLATTNER** *Instructor in Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.
A.B., Washington University, 1929; M.D., 1933.
- BRUCE DELOZIER KENAMORE** *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician, St. Louis City Hospital; Consulting Physician (Gastroenterology), Homer G. Phillips Hospital.
A.B., Washington University, 1933; M.D., 1935.
- JOSEPH DUDLEY GREAVES** *Instructor in Biological Chemistry*
B.S., Utah State Agricultural College, 1928; M.S., 1929; Ph.D., University of California, 1933.
- HENRY GERARD SCHWARTZ** *Instructor in Clinical Neurological Surgery*
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Visiting Surgeon (Neurological), St. Louis City Hospital.
A.B., Princeton University, 1928; M.D., Johns Hopkins University, 1932.
- PAUL ALLEN WHEELER** *Instructor in Pathology*
M.D., Vanderbilt University, 1932.
- H. RELTON MCCARROLL** *Instructor in Clinical Orthopedic Surgery*
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Visiting Surgeon, St. Louis City Hospital.
A.B., Ouachita College, 1927; M.D., Washington University, 1931.
- MARSHALL G. SEIBEL** *Instructor in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
B.S., University of Missouri, 1927; M.D., University of Louisville, 1929.
- THEODORE EUGENE SANDERS** *Instructor in Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Ophthalmologist to Outpatients, University Clinics; Visiting Ophthalmologist (Section Director), Homer G. Phillips Hospital.
B.S., University of Nebraska, 1931; M.D., 1933.
- HENRY CLINE ALLEN** *Instructor in Pathology*
M.D., Washington University, 1933.
- PAUL OONK HAGEMAN** *Instructor in Medicine*
Assistant Physician, Barnes Hospital.
A.B., Washington University, 1930; M.D., 1934.
- CARL GAYLOR HARFORD** *Instructor in Bacteriology and Immunology and Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital.
A.B., Amherst College, 1928; M.D., Washington University, 1933.
- JOSEPH STRITAR** *Instructor in Bacteriology and Immunology*
B.S., Iowa State College, 1929; M.S., 1931; Ph.D., University of Chicago, 1936; M.D., 1937.
- EDWIN HERMAN LENNETTE**¹ *Instructor in Pathology*
B.S., University of Chicago, 1931; Ph.D., 1935; M.D., Rush Medical College, 1936.
- RUTH KAHN** *Instructor in Dietetics*
Dietitian to Outpatients, University Clinics.
B.S., University of Illinois, 1927.
- HARRY NAYLOR GLICK** *Instructor in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.
A.B., Cornell University, 1916; M.D., St. Louis University, 1922.
- LILBURN CASPER BOEMER** *Instructor in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.
B.S., St. Louis University, 1923; M.D., 1930.

¹ Resigned August 1, 1939.

ROBERT WILSON BARTLETT . . . *Instructor in Clinical Surgery and in Anatomy*

Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon, Homer G. Phillips Hospital.

B.S., University of Michigan, 1926; M.D., 1930.

ALAN DUNCAN CALHOUN *Instructor in Clinical Ophthalmology*

Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Assistant Ophthalmologist to Outpatients, University Clinics.

A.B., Washington University, 1929; M.D., 1933.

JOSEPH GITT *Instructor in Clinical Neurology*

Assistant Neurologist, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician (Neuropsychiatry), St. Louis City Hospital; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.

M.D., Washington University, 1930.

HARRY EARL MANTZ *Instructor in Pathology*

Assistant Pathologist, St. Louis Maternity Hospital.

A.B., University of Missouri, 1934; M.D., Washington University, 1938.

EDWARD MASSIE *Instructor in Clinical Medicine*

Physician to Outpatients, University Clinics; Consulting Physician (Cardiology), Homer G. Phillips Hospital.

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

HEWITT IRVING VARNEY *Instructor in Psychiatry*

Assistant Psychiatrist, Barnes Hospital; Physician to Outpatients (Psychiatry), University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.

M.D., University of Vermont, 1935.

JOSEPH CASTRO EDWARDS *Instructor in Clinical Medicine*

Assistant Physician, Barnes Hospital; Visiting Physician, St. Louis City Hospital.

A.B., University of Oklahoma, 1930; M.D., Harvard University, 1934.

ROBERT MALSEED BELL *Instructor in Clinical Psychiatry*

Assistant Psychiatrist, Barnes Hospital; Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.

M.D., St. Louis University, 1928.

JUSTIN JOSEPH CORDONNIER . . . *Instructor in Clinical Genitourinary Surgery*

Assistant Surgeon to Outpatients (Genitourinary), University Clinics; Visiting Surgeon and Section Director (Urology), Homer G. Phillips Hospital.

B.S., Washington University, 1926; M.D., 1928.

ELSON BOWMAN HELWIG *Instructor in Pathology*

Associate Pathologist, Barnes Hospital; Assistant Pathologist, St. Louis Children's and St. Louis Maternity Hospitals.

B.S., Indiana University, 1930; M.D., 1932.

WILLIAM OGBURN RUSSELL . . *Instructor in Pathology (Neuropathology)*

Assistant Pathologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.

A.B., Stanford University, 1933; M.D., 1937.

JOSEPH BARNETT WORKMAN, JR. *Instructor in Ophthalmology*

Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Assistant Ophthalmologist to Outpatients, University Clinics; Visiting Ophthalmologist, Homer G. Phillips Hospital.

M.D., Medical College of the State of South Carolina, 1935.

EUGENE MYRON BRICKER¹ *Instructor in Clinical Surgery*

Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Visiting Surgeon, Homer G. Phillips Hospital.

M.D., Washington University, 1934.

¹ Assistant, July to Sept.; Instructor, October to June.

- SIMON EDWARD SULKIN . *Instructor in Bacteriology and Immunology*
B.S., Rhode Island State College, 1930.
- JOHN RUSSELL SMITH¹ *Instructor in Medicine*
Assistant Physician, Barnes Hospital.
A.B., University of Wisconsin, 1931; A.M., 1932; M.D., Washington University,
1934.
- LUTHER L. TERRY¹ *Instructor in Medicine*
Visiting Physician, St. Louis City Hospital.
M.D., Tulane University, 1935.
- HYMAN HERSCHEL FINGERT² *Instructor in Psychiatry*
Visiting Physician (Neurophysiatry), Homer G. Phillips Hospital and Mal-
colm A. Bliss Psychiatric Institute.
B.A., State University of Iowa, 1931; M.D., 1934.
- PAUL MURPHY³ *Instructor in Clinical Medicine*
M.D., St. Louis University, 1926.
- ALEXANDER SUSS LANGSDORF, JR.¹ *Assistant Physicist to the*
Mallinckrodt Institute of Radiology
A.B., Washington University, 1932; Ph.D., Massachusetts Institute of Tech-
nology, 1937.

LECTURERS

- JOSEPH C. WILLETT . . . *Lecturer in Public Health Diagnostic Methods*
D.V.M., United States Veterinary College, 1920.
- ROY EARL MASON *Lecturer in Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes Hospital.
M.D., St. Louis University, 1905.
- THOMAS B. POTE *Lecturer in Pathology*
D.V.S., McGill University, 1892; M.D., Washington University, 1902.
- EDGAR VAN NORMAN EMERY *Lecturer in Psychiatry*
Visiting Physician, Malcolm A. Bliss Psychiatric Institute.
M.B., University of Toronto, 1911; M.D., 1931.
- THEODORE ROOSEVELT MEYER *Lecturer in Public Health*
Administration
M.D., Medical College of the State of South Carolina, 1924; Dr.P.H., Yale
University, 1933.
- WILLIAM W. CROWDUS *Lecturer in Medical Jurisprudence*
LL.B., Washington University, 1922.
- LEONARD MARVIN BOARD *Lecturer in Public Health*
B.S.C.E., West Virginia University, 1931.
- HERBERT GEORGE DYKTOR *Lecturer in Public Health*
Graduate, Polytechnic Institute of London, 1912.
- ROSEMARY PHILLIPS *Lecturer in Public Health Nursing*
R.N., St. Louis City Hospital, 1920; C.P.H., Washington University, 1935; B.S.,
1936.

ASSISTANTS

- MAURICE JULIUS LONSWAY *Assistant in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St.
Louis Maternity Hospital.
B.S., Valparaiso University, 1910; M.D., St. Louis University, 1914.
- WILLIAM LUDWIG HANSON *Assistant in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals.
M.D., Washington University, 1913.

¹ Effective October 1, 1939.² Effective November 1, 1939.³ Effective December 1, 1939.

- LEE PETTIT GAY *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- OLIVER ABEL, JR. *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital.
B.S., Washington University, 1922; M.D., 1923.
- WILLIAM GEORGE BECKE *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital.
M.D., Washington University, 1923.
- FRANCIS JOHN CANEPA *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
M.D., Washington University, 1922.
- LOUIS E. FREIMUTH *Assistant in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals.
B.S., St. Louis University, 1922; M.D., 1923.
- HELEN GAGE *Assistant in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.
B.S., University of Michigan, 1916; M.D., 1918.
- MYRON WOODWARD DAVIS *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics.
M.D., Washington University, 1925.
- ELMER RICHMAN *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
M.D., University of Prague, 1922.
- BARBARA STANDISH KENDALL *Assistant in Medical Psychology*
Psychologist to Outpatients, University Clinics.
A.B., Radcliffe College, 1913; Ed.M., Harvard University, 1928.
- FRANZ JOSEPH ARZT *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.
M.D., Washington University, 1926.
- BERTRAND YOUNKER GLASSBERG *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
B.S., Washington University, 1923; M.D., 1925.
- ALLEN B. POTTER *Assistant in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics; Visiting Otolaryngologist (Section Head), St. Louis City Hospital.
A.B., William Jewell College, 1916; M.D., St. Louis University, 1924.
- EDWARD LAWRENCE KEYES, JR. *Assistant in Clinical Surgery*
Assistant Surgeon, Barnes and St. Louis Children's Hospitals.
B.S., Princeton University, 1921; M.D., Cornell University, 1926.
- GRACE MEHRTEN *Assistant in Applied Bacteriology in Medicine*
A.B., University of Kansas, 1924; M.A., 1925.
- MILTON SMITH *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital.
B.S., Washington University, 1928; M.D., 1930.
- IRWIN HERMAN ESKELES *Assistant in Clinical Dermatology*
Assistant Dermatologist, Barnes Hospital; Assistant Physician to Outpatients (Dermatology), University Clinics; Consulting Physician (Dermatology and Syphilology), Homer G. Phillips Hospital.
B.S., Washington University, 1920; M.D., 1922.

- JOSEPH ALOYSIUS BAUER** *Assistant in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.
M.D., Washington University, 1926.
- WILLARD CALVIN SCRIVNER** *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
B.S., Washington University, 1928; M.D., 1930.
- JOHN B. O'NEILL** *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist, St. Louis City Hospital.
M.D., St. Louis University, 1927.
- FREDERICK W. SCHERRER, JR.** *Assistant in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.
B.S., St. Louis University, 1926; M.D., 1928; M.S., in Otolaryngology, University of Pennsylvania, 1932.
- LEE BULLEN HARRISON** *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital.
A.B., University of Utah, 1925; M.D., Washington University, 1927.
- LOUIS T. BYARS** *Assistant in Clinical Surgery*
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Visiting Surgeon (Plastic), St. Louis City Hospital.
B.S., University of Arkansas, 1928; M.D., Washington University, 1932.
- ALBERT CHESTERFIELD STUTSMAN** *Assistant in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals.
B.S., Roanoke College, 1927; M.D., University of Virginia, 1931.
- FRANCES H. STEWART** *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
M.D., Washington University, 1927.
- GUERDAN HARDY** *Assistant in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.
M.D., Washington University, 1929.
- EDWARD WYATT CANNADY** *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital.
A.B., Washington University, 1927; M.D., 1931.
- BRADFORD CANNON** *Assistant in Clinical Surgery*
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Visiting Surgeon (Plastic), Homer G. Phillips Hospital.
S.B., Harvard University, 1929; M.D., 1933.
- HAROLD GOULD NEWMAN** *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
B.S., University of Missouri, 1916; A.M., 1918; M.D., St. Louis University, 1931.
- DAVID MILLER SKILLING, JR.** *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
B.S., Washington and Jefferson College, 1923; M.D., Washington University, 1928.
- JOHN FRANKLIN PATTON** *Assistant in Clinical Genitourinary Surgery*
Assistant Surgeon, Barnes Hospital; Assistant Surgeon to Outpatients (Genitourinary), University Clinics; Visiting Surgeon and Section Head (Genitourinary), St. Louis City Hospital.
M.D., Washington University, 1928.

- KENNETH O. WILSON** . . . *Assistant in Clinical Genitourinary Surgery*
Assistant Surgeon to Outpatients (Genitourinary), University Clinics; Visiting Surgeon (Genitourinary), St. Louis City Hospital.
M.D., Washington University, 1923.
- HARRY L. THIEME** *Assistant in Clinical Orthopedic Surgery*
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Surgeon to Outpatients (Orthopedic), University Clinics; Visiting Surgeon and Section Director (Orthopedic), Homer G. Phillips Hospital.
B.S., St. Louis University, 1922; M.D., 1924.
- LLOYD DAVID LINTON** *Assistant in Applied Bacteriology in Otolaryngology*
B.S., Tri-State College, 1929; B.S., Purdue University, 1934.
- HANS LOUIS KLEINE** . *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
B.S., Washington University, 1927; M.D., 1929.
- KURT MANSBACHER** *Assistant in Clinical Medicine*
Physician to Outpatients, University Clinics.
M.D., Friedrich-Wilhelms University, 1919.
- LESLIE ENDICOTT PATTON** *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, St. Louis Maternity Hospital; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
B.S., St. Louis University, 1921; M.D., 1924.
- GEORGE J. L. WULFF, JR.** *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist, Homer G. Phillips Hospital.
A.B., Washington University, 1929; M.D., 1933.
- PAUL FRANKLIN MAX** *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, St. Louis Maternity Hospital; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
B.S., Washington University, 1932; M.D., 1932.
- ROY LOUIS KILE**¹ *Assistant in Clinical Dermatology*
B.S., University of Cincinnati, 1930; M.D., 1932.
- KEITH SINGLETON WILSON** *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
A.B., Williams College, 1930; M.D., Washington University, 1934.
- SIM F. BEAM** *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
A.B., University of Missouri, 1928; M.D., Washington University, 1932.
- EDMUND BENNETT ALVIS** *Assistant in Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Assistant Ophthalmologist to Outpatients, University Clinics; Visiting Ophthalmologist, St. Louis City Hospital.
M.D., Washington University, 1934.
- LEE WALLACE DEAN, JR.** *Assistant in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.
B.S., Yale University, 1930; M.D., Washington University, 1933.
- HERBERT M. SMIT** *Assistant in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.
M.D., St. Louis University, 1933.

¹ Resigned October 1, 1939.

- RAYMOND FRANCIS HOLDEN, JR.** *Assistant in Clinical Medicine*
Physician to Outpatients, University Clinics.
B.S., Washington University, 1933; M.D., 1933.
- MORRIS MOORE** *Mycologist to the Department of Dermatology*
Mycologist, Barnes Hospital.
B.S., Boston University, 1928; A.M., Harvard University, 1929; Ph.D., Washington University, 1933.
- HELMAN CHAIM WASSERMAN** . . . *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist, Homer G. Phillips Hospital.
A.B., Johns Hopkins University, 1928; M.D., Washington University, 1932.
- AXEL GRONAU** *Assistant in Bacteriology and Immunology*
M.D., University of Naples, 1935.
- HEINZ HAFFNER** *Assistant in Surgery*
Resident Surgeon, Barnes Hospital.
B.S., University of Arizona, 1931; M.D., Washington University, 1935.
- ALVAH GERRIT HEIDEMAN** *Assistant in Clinical Surgery*
Voluntary Assistant in Surgery, Barnes Hospital.
M.D., Washington University, 1926.
- HARRY DAVID ROSENBAUM** *Assistant in Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Assistant Ophthalmologist to Outpatients, University Clinics; Visiting Ophthalmologist, St. Louis City Hospital.
M.D., Washington University, 1934.
- JOHN WICKHAM SEDDON** *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital.
Ph.B., Yale University, 1931; M.D., Washington University, 1935.
- KARL FREDERICK KOENIG** *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
B.S., University of Illinois, 1923; M.D., Washington University, 1931.
- HAROLD SCHEFF** *Assistant in Clinical Medicine*
Physician to Outpatients, University Clinics; Visiting Physician, Homer G. Phillips Hospital.
M.D., University of Toronto, 1931.
- WILLIAM THOMAS KIMLIN BRYAN** *Assistant in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics; Visiting Otolaryngologist, St. Louis City Hospital.
A.B., Washington University, 1929; M.D., 1933.
- HUBERT LEE ALLEN** *Assistant in Obstetrics and Gynecology*
Resident Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
A.B., University of Kansas, 1932; M.D., Tulane University, 1936.
- ARTHUR ROBERT BORTNICK** . . . *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, St. Louis Maternity Hospital; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics; Assistant Obstetrician and Gynecologist to Outpatients, St. Louis City Hospital.
M.D., Washington University, 1935.
- JAMES HOWARD BRYAN** *Assistant in Clinical Ophthalmology*
Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Assistant Ophthalmologist to Outpatients, University Clinics; Visiting Ophthalmologist, Homer G. Phillips Hospital.
A.B., Washington University, 1932; M.D., 1936.
- THOMAS HANNAHAN BURFORD** *Assistant in Surgery*
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.
A.B., University of Missouri, 1931; B.S., 1933; M.D. Yale University, 1936.

- WILLIAM YOUNG BURTON *Assistant in Radiology*
Resident Radiologist, Barnes Hospital.
A.B., University of Missouri, 1932; B.S., 1933; M.D., Washington University, 1936.
- EMMETT BURK DRESCHER *Assistant in Surgery*
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.
A.B., Washington University, 1932; M.D., 1936.
- ORA JAMES GIBSON *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist, Homer G. Phillips Hospital.
A.B., Stanford University, 1929; A.M., 1930; M.D., Washington University, 1933.
- SAMUEL P. HARBISON *Assistant in Surgery*
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.
A.B., Princeton University, 1931; M.D., Cornell University, 1936.
- JOHN LINS COTT HORNER *Assistant in Clinical Medicine*
Physician to Outpatients, University Clinics.
A.B., Washington University, 1932; M.D., 1936.
- MATHIAS FRANZ FREDERICK KOHL *Assistant in Pharmacology*
B.S., Mount Union College, 1933; Ph.D., University of Rochester, 1938.
- CARL EDWARD LISCHER *Assistant in Surgery*
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.
A.B., University of California, 1933; M.D., Washington University, 1937.
- FRANK ANDREW MORRISON *Assistant in Obstetrics and Gynecology*
Resident Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
B.S., University of Nebraska, 1935; M.D., 1936.
- BEN HARLAN SENTURIA *Assistant in Clinical Otolaryngology*
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics; Visiting Otolaryngologist, St. Louis City Hospital.
A.B., Washington University, 1931; M.D., 1935.
- OLGA BIERBAUM *Assistant in Hematology in Medicine*
B.S. in Ed., Ohio State University, 1930.
- ALFRED EDWARD HOW *Assistant in Applied Bacteriology in Ophthalmology*
A.B., Washington University, 1935.
- MORTON ROGER LAZAR *Assistant in Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
A.B., Wayne University, 1933; M.D., University of Michigan, 1936.
- HELEN MARGARET AFF *Assistant in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Assistant Physician to Outpatients (Pediatrics), University Clinics.
B.S., Washington University, 1934; M.D., 1934.
- DOROTHY JEANNETTE JONES *Assistant in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Assistant Physician to Outpatients (Pediatrics), University Clinics; Visiting Pediatrician, St. Louis City Hospital.
A.B., Oberlin College, 1930; M.D., Washington University, 1934.
- HARRY EWING WACHTER *Assistant in Clinical Pediatrics*
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Assistant Physician to Outpatients (Pediatrics), University Clinics; Visiting Pediatrician, Homer G. Phillips Hospital.
A.B., Washington University, 1929; M.D., 1933.
- OSCAR PERRY HAMPTON, JR. *Assistant in Clinical Orthopedic Surgery*
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Visiting Surgeon (Orthopedic), St. Louis City Hospital.
M.D., University of Tennessee, 1928.

- MAURICE BERNARD ROCHE** *Assistant in Clinical Orthopedic Surgery*
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Visiting Surgeon (Orthopedic), St. Louis City Hospital.
M.D., St. Louis University, 1933.
- FRANK MICHAEL PETKEVICH**¹ *Assistant in Pathology*
M.D., University of Chicago, 1937.
- HARRY AGRESS** *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital.
B.S., Washington University, 1932; M.D., 1932.
- JOHN HEIDEMAN AHRENS** *Assistant in Pathology*
A.B., College of Wooster, 1935; M.D., Washington University, 1939.
- WILLIAM R. ARROWSMITH** *Assistant in Medicine*
Assistant Resident Physician, Barnes Hospital.
B.S., Muskingum College, 1930; M.D., Ohio State University, 1938.
- WILSON GORDON BROWN** *Assistant in Pathology*
A.B., William Jewell College, 1935; M.D., Washington University, 1939.
- ROBERT WILLIAM ELLIOTT** *Assistant in Medicine*
Resident Physician, Barnes Hospital.
A.B., Washington University, 1932; M.D., 1936.
- ORWYN HAYWOOD ELLIS** *Assistant in Ophthalmology*
Resident Ophthalmologist, Barnes and St. Louis Children's Hospitals.
A.B., Stanford University, 1932; M.D., Washington University, 1936.
- S. ALBERT HANSER** *Assistant in Clinical Ophthalmology*
Voluntary Assistant in Ophthalmology, Barnes Hospital; Visiting Ophthalmologist, Homer G. Phillips Hospital.
B.S., St. Louis University, 1933; M.D., 1937.
- HARRY HAUPTMAN** *Assistant in Obstetrics and Gynecology*
Extern in Obstetrics and Gynecology, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
A.B., University of Michigan, 1932; M.D., Washington University, 1936.
- WILLIS HOWARD HAYWARD** *Assistant in Obstetrics and Gynecology*
Assistant Resident Obstetrician and Gynecologist, St. Louis Maternity Hospital; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
M.D., Washington University, 1937.
- THEODORE REID JONES** *Assistant in Medicine*
Assistant Resident Physician, Barnes Hospital.
M.D., University of Kansas, 1937.
- ROBERT WILSON KELLEY** *Assistant in Medicine*
Physician to Outpatients, University Clinics.
A.B., Southwestern College, 1932; M.D., Washington University, 1936.
- ROBERT C. KINGSLAND** *Assistant in Medicine*
Assistant Resident Physician, Barnes Hospital.
A.B., Washington University, 1933; M.D., 1937.
- GEORGE JOHN KLOK** *Assistant in Pediatrics*
Assistant Resident Physician, St. Louis Children's Hospital.
A.B., University of Nebraska, 1932; B.S., 1933; M.D., 1935.
- RAYMOND RAY LANIER, JR.** *Assistant in Anatomy*
B.A., University of Richmond, 1935; Ph.D., Washington University, 1939.
- VERNON O. LUNDMARK** *Assistant in Surgery*
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.
M.D., Washington University, 1936.
- A. EDWARD MEISENBACH, JR.** *Assistant in Ophthalmology*
Assistant Resident Ophthalmologist, Barnes and St. Louis Children's Hospitals.
A.B., Washington University, 1933; M.D., 1937.
- JOE MARION PARKER** *Assistant in Surgery*
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.
A.B., University of Illinois, 1930; M.S., 1932; M.D., Washington University, 1933.

¹ Resigned November 1, 1939.

- THOMAS GORDON RUSSELL *Assistant in Radiology*
Assistant Resident Radiologist, Barnes Hospital.
B.S., University of Toledo, 1933; M.D., Washington University, 1937.
- HENRY FRANK SAUNDERS *Assistant in Pediatrics*
Resident Physician, St. Louis Children's Hospital.
M.D., University of Toronto, 1936.
- ALFRED SEYMOUR SCHWARTZ *Assistant in Pediatrics*
Assistant Resident Physician, St. Louis Children's Hospital.
A.B., Amherst College, 1932; M.D., Johns Hopkins University, 1936.
- BERNARD SCHWARTZMAN *Assistant in Clinical Pediatrics*
A.B., Washington University, 1931; M.D., 1935.
- LAWRENCE M. SHEFTS *Assistant in Surgery*
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.
M.D., Rush Medical College, 1935.
- GERALD A. SLUSSER *Assistant in Pathology*
Intern in Pathology, Barnes Hospital.
B.Ed., Illinois State Normal University, 1934; B.S. in Med. Science, Washington University, 1939; M.D., 1939.
- CARL AUGUST WATTENBERG *Assistant in Surgery*
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.
A.B., University of Kansas, 1934; M.D., 1937.
- BENJAMIN HYNES CHARLES *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital.
M.B., Ch.B., University of Edinburgh, 1934.
- TRUMAN GUTHRED DRAKE, JR. *Assistant in Clinical Medicine*
Assistant Physician, Barnes Hospital.
A.B., Washington University, 1929; M.D., 1933.
- JEAN FISCHER BENNETT *Assistant in Applied Chemistry in Medicine*
A.B., Washington University, 1934; M.S., 1935.
- EDWARD HENRY SIEBER *Assistant in Obstetrics and Gynecology*
Assistant Resident Obstetrician and Gynecologist, St. Louis Maternity Hospital; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
A.B., Illinois College, 1933; M.D., Washington University, 1937.
- HAROLD R. REAMES *Assistant in Pathology*
A.B., Olivette College, 1935.
- STANLEY MILTON LEYDIG *Assistant in Clinical Orthopedic Surgery*
Assistant Surgeon, Barnes and St. Louis Children's Hospitals.
A.B., State University of Montana, 1930; M.D., Washington University, 1934.
- SYDNEY BROWN MAUGHS¹ *Assistant in Clinical Psychiatry*
Assistant Psychiatrist, Barnes Hospital; Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.
A.B., Westminster College, 1931; M.D., Washington University, 1935.
- HERMAN HUTTO² *Assistant in Clinical Obstetrics and Gynecology*
Assistant Obstetrician and Gynecologist, Barnes Hospital; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics; Assistant Obstetrician and Gynecologist to Outpatients, St. Louis City Hospital.
A.B., University of Alabama, 1932; M.D., Washington University, 1935.
- MARY LUCY MILLER *Research Assistant in Pathology*
A.B., Syracuse University, 1927; M.A., Columbia University, 1929; Ph.D., 1934.
- JAMES WILLIAM BAGBY³ *Assistant in Clinical Dermatology*
Assistant Physician to Outpatients (Dermatology), University Clinics; Visiting Physician (Dermatology), Homer G. Phillips Hospital.
A.B., University of Missouri, 1930; B.S., 1931; M.D., Washington University, 1933.
- MORRIS DAVID MARCUS³ *Assistant in Clinical Dermatology*
Assistant Physician to Outpatients (Dermatology), University Clinics; Visiting Physician (Dermatology), Homer G. Phillips Hospital.
M.D., Washington University, 1934.

¹ Effective September 1, 1939.

² Effective October 1, 1939.

³ Effective November 1, 1939.

- CARL JACOB ALTHAUS¹ *Assistant in Clinical Genitourinary Surgery*
Assistant Surgeon to Outpatients (Genitourinary), University Clinics.
M.D., St. Louis University, 1917.
- HARRY CUTLER¹ *Assistant in Clinical Genitourinary Surgery*
Assistant Surgeon to Outpatients (Genitourinary), University Clinics.
M.D., St. Louis University, 1930.
- HAROLD HENRY FELLER¹ *Assistant in Clinical Genitourinary Surgery*
Assistant Surgeon to Outpatients (Genitourinary), University Clinics.
M.D., Washington University, 1926.
- JULIUS H. KOPP¹ *Assistant in Clinical Genitourinary Surgery*
Assistant Surgeon to Outpatients (Genitourinary), University Clinics.
M.D., University of Arkansas, 1931.
- BURCHARD SIMPSON PRUETT¹ *Assistant in Clinical Surgery*
Assistant Surgeon to Outpatients, University Clinics.
B.S., Washington University, 1929; M.D., 1929.
- EDWIN CALVIN SCHMIDTKE¹ *Assistant in Clinical Surgery*
Assistant Surgeon to Outpatients, University Clinics.
A.B., University of Missouri, 1929; B.S., 1929; M.D., Washington University,
1931.
- FRANK MCDOWELL¹ *Assistant in Clinical Surgery*
A.B., Drury College, 1932; M.D., Washington University, 1936.

FELLOWS AND RESEARCH ASSISTANTS

- SAMUEL J. HAYWARD *Research Assistant in Pathology*
- VALENTINA SUNTZEFF *Research Associate in Pathology*
M.D., Women's Medical Institute, Petrograd, Russia.
- MARIAN MOSKOP KIRTZ *Research Assistant in Pathology*
A.B., Washington University, 1934.
- MARY B. RUHOFF *Research Fellow in Applied Chemistry in
Pediatrics*
A.B., Wellesley College, 1930.
- GERHARD SCHMIDT *Research Assistant in Pharmacology*
M.D., University of Freiburg, 1926.
- ROSS C. MACCARDLE *Research Associate in Cytology and Dermatology*
B.S., University of Michigan, 1927; Ph.D., Brown University, 1932.
- EDWARD MATHER KENT *Fellow in Chest Surgery*
B.S., Pennsylvania State College, 1929; M.D., Syracuse University, 1932.
- WILLIAM JESSE NEWMAN *Fellow in Neurological Surgery*
Voluntary Assistant (Neurosurgery), Barnes Hospital.
A.B., Stanford University, 1933; M.D., 1937.
- LEOPOLD HOFSTATTER *Fellow in Neurological Surgery*
Voluntary Assistant (Neurosurgery), Barnes Hospital; Assistant Surgeon, St.
Louis Children's Hospital.
M.D., University of Vienna, 1926.
- CHARLES ROY ANDERSON *Research Fellow in Pediatrics*
A.B., University of Illinois, 1935; M.D., Washington University, 1939.
- HENRY LEWIS BARNETT *Research Fellow in Pediatrics*
Assistant Resident Physician, St. Louis Children's Hospital.
B.S. in Med. Science, Washington University, 1938; M.D., 1938.
- SIDNEY COLOWICK *Research Assistant in Pharmacology*
B.S., Washington University, 1936; M.S., 1939.
- RAYMOND NADELL *Research Fellow in Psychosomatic Medicine*
B.S., College of the City of New York, 1931; M.D., University of Vienna, 1936.

¹ Effective December 1, 1939.

- ANTOINETTE WAGENFUEHR . *Research Fellow in Applied Bacteriology
in Pediatrics*
A.B., Washington University, 1939.
- ALFRED D. BUCHMUELLER¹ . . . *Research Fellow in Social Service in
Neuropsychiatry*
A.B., Elmhurst College, 1931.
- CHIH-HUAN LING² *Research Fellow in Otolaryngology*
M.D., Peiping Union Medical College, 1926.
- FUANG SATYASANGUAN³ *Rockefeller Fellow in Surgery*
M.B., Chulalankarana University, Bangkok, Siam, 1934.
-
- LOUISE Q. JACOBY *Secretary to the Dean*
A.B., Washington University, 1927.

¹ Effective October 1, 1939.

² Effective October 25, 1939.

³ Effective December 1, 1939.

OFFICERS AND COMMITTEES OF THE FACULTY OF THE SCHOOL OF MEDICINE

EXECUTIVE FACULTY

GEORGE REEVES THROOP, *Bridge Chancellor*

PHILIP A. SHAFFER, *Dean*

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ROBERT J. TERRY
EVARTS A. GRAHAM
DAVID P. BARR
OTTO H. SCHWARZ
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JOHN V. LAWRENCE
ALEXIS F. HARTMANN
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GENERAL FACULTY

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

HUGH McCULLOCH, *Secretary of General Faculty*

STANDING COMMITTEES¹

MEDICAL EDUCATION

Dr. Erlanger (*Chairman*), Drs. Sachs, Terry, Barr, Shaffer, Mr. Parker.

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Dr. Cori (*Chairman*), Drs. Alexander, Seelig, Whitehorn, R. A. Moore.

BARNES HOSPITAL

Dr. Bradley (*Chairman*), Drs. Barr, Graham, Dean, Schwarz, Post, R. A. Moore.

ST. LOUIS CHILDREN'S HOSPITAL

Dr. Hartmann (*Chairman*), Drs. Graham, Dean, R. A. Moore, Miss Claiborne.

ST. LOUIS MATERNITY HOSPITAL

Dr. Schwarz (*Chairman*), Drs. Graham, Hartmann, Allen, R. A. Moore, Mrs. Keith.

EDWARD MALLINCKRODT INSTITUTE OF RADIOLOGY

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

MCMILLAN HOSPITAL AND OSCAR JOHNSON INSTITUTE

Dr. Shaffer (*Chairman*), Drs. Barr, Dean, Post, Lawrence, Graham.

FACULTY REPRESENTATIVE TO THE BARNES HOSPITAL BOARD

Dr. Graham.

WASHINGTON UNIVERSITY CLINICS

Dr. Barr (*Chairman*), Drs. Fisher, Graham, Hartmann, Schwarz, Bradley, Dean, Lawrence, Post, Clopton, Lohr, Misses Taylor, Hoblitzelle.

The *Advisory Board of the Clinics* is composed of the chiefs of each clinic division and the Director of Social Service Department.

¹ The Dean is *ex officio* a member of all standing committees.

ADMISSIONS, PROMOTIONS AND SCHOLARSHIPS

Dr. Shaffer (*Chairman*), Drs. Graham, Cowdry, Hartmann, Jacobsen, Womack, Walton, Mr. Parker.

DEPARTMENT OF SOCIAL SERVICE

Dr. Barr (*Chairman*), Drs. Alexander, Schwarz, Cooke, Lawrence, Bradley, Mrs. Holland, Miss Taylor, Mrs. Rice, Mr. Van Schoiack, Dr. Copher.

ST. LOUIS CITY HOSPITALS

Dr. T. K. Brown (*Chairman*), Drs. Findley, Post, Proetz, Womack, Whitehorn.

GRADUATE INSTRUCTION

Dr. Graham (*Chairman*), Drs. Barr, Schwarz, S. Moore, Dean, Post, Hartmann, Womack.

STUDENT HEALTH

Dr. Lawrence (*Chairman*), Drs. Barr, Bronfenbrenner, Jean, Walton, Whitehorn, Dean Lischer (School of Dentistry).

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ANNA R. FOOTE *Cashier*

ROSE FALLENSTEIN *Manager, Campus Dormitories*

DONALD MORRISON *Superintendent, Buildings and Grounds*

FREDERICK GRANT ST. CLAIR, M.S. *Power Plant Engineer*

JAMES JOHNSTONE RITTERSKAMP, JR., B.S.B.A., LL.B.

Assistant Purchasing Agent and Manager, The University Stores

MARGARET STICKLEN *Manager, Cafeterias*

OTHER OFFICERS OF THE UNIVERSITY

OSCAR CARL ORMAN, B.A. in L.S., LL.B. *Librarian*

ELLA B. LAWRENCE *Librarian (School of Medicine)*

MAUDE MCFARLAND HENNESSEY

Assistant Librarian (School of Medicine)

HELEN KAISER *Assistant Registrar (School of Medicine)*

FRANK HENRY EWERHARDT, M.D.

Director of Physical Education and University Health Service

PHILO STEVENSON, A.B. *School Visitor*

PAUL O. HAGEMAN, A.B., M.D. *Campus Physician*

J. TED JEAN, M.D. *Physician to Medical and Dental Students*

CALVIN RINGGENBERG, M.Mus., A.A. G. O. *Organist*

CLAY BALLEW *Director of University Chorus*

E. KENDALL HARRISON, A.B. *Alumni Representative,*

Head, Employment Bureau,

Director, News Bureau

MCMILLAN HOSPITAL AND OSCAR JOHNSON INSTITUTE

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

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

SOCIAL SERVICE DEPARTMENT OF WASHINGTON UNIVERSITY CLINICS AND ALLIED HOSPITALS

MISS MARY K. TAYLOR *Director*
MISS ISABEL BERING *Administrative Assistant*
MRS. ELIZABETH PAYNE *Educational Assistant*

OFFICERS OF THE BOARD OF MANAGERS

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MRS. STANLEY STONER *First Vice-President*
MRS. EDWARD MALLINCKRODT, JR. *Second Vice-President*
MRS. J. LIONBERGER DAVIS *Treasurer*
MISS CARLOTA GLASGOW *Assistant Treasurer*
MRS. CHARLES M. RICE *Secretary*
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THE AFFILIATED HOSPITALS

THE BARNES HOSPITAL

ADMINISTRATION

FRANK R. BRADLEY, M.D. *Superintendent*
O. N. ANDERSON, M.D. *Assistant Superintendent*
CORNELIA S. KNOWLES, R.N. *Executive Assistant*
RUBY B. JAMES, R.N. *Executive Assistant*
LILLY D. HOEKSTRA, R.N. *Executive Assistant*

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

ST. LOUIS CHILDREN'S HOSPITAL

ADMINISTRATION

ESTELLE D. CLAIBORNE, R.N. *Superintendent*
ANNA BRANDNER, B.S., R.N. *Assistant Superintendent*
MARY M. REYNOLDS, R.N. *Assistant Superintendent*
MARJORIE M. MOORE, R.N. *Superintendent of Nurses*

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

ST. LOUIS MATERNITY HOSPITAL

MARY J. KEITH *Superintendent*

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

WASHINGTON UNIVERSITY CLINICS

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

BOARD OF MANAGERS

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 MRS. EUGENE MCCARTHY *Vice-President*
 DR. JOHN V. LAWRENCE *Secretary*
 MR. DONALD G. GIBBINS *Treasurer*

MRS. HORTON WATKINS
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 MR. WILLIAM H. DANFORTH
 MISS MILDRED MCCLUNEY
 MR. T. W. VAN SCHOLACK

MRS. HARRY B. WALLACE
 MRS. ROBERT A. HOLLAND, JR.
 DR. DAVID P. BARR
 MR. LEMUEL R. CARTER
 DR. MALVERN B. CLOPTON, *ex officio*

JOHN V. LAWRENCE *Director of Clinics*
 EDNA MILLER GIBSON *Supervisor of Nursing*
 FLORA ROBINSON WELLS *Record Librarian*
 J. S. CRAWFORD *Optician*

The Washington University Clinics, although owned by the University, are operated under the supervision of a separate Board of Managers. Formerly called the Dispensary, the present name was adopted in 1932 when the outpatient service was reorganized to serve more efficiently as a means of teaching private and group medical practice. It represents as well a medical service to the community, and affords examples to medical students of their social and community obligations. The number of patient visits to all clinic subdivisions during the past year was 126,085.

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

THE ST. LOUIS CITY HOSPITALS

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

HISTORICAL STATEMENT

THE SCHOOL OF MEDICINE¹

The teaching of medicine west of the Mississippi river began in the first half of the 19th century in response to the need of doctors for the rapidly growing populations of the Valley and the West. The first schools were established in existing collegiate institutions, the Roman Catholic St. Louis University, chartered in 1832, and the Protestant Episcopal Kemper College, incorporated in 1837. Courses of instruction were offered by the Medical Department of Kemper College the fall and winter of 1840-41, and by the Medical Department of St. Louis University in 1842-43. From these origins two medical schools were developed, to be known later as the Missouri Medical College and the St. Louis Medical College.

Kemper College was closed in 1845, and in the following year Dr. Joseph Nash McDowell, the founder of its medical department, succeeded in establishing his faculty by legislative act in the State University of Missouri. In 1855 connection with the State University terminated and the Missouri Medical College, an independent school, was incorporated. In the same year, the faculty of the Medical Department of St. Louis University, through the leadership of Dr. Charles Alexander Pope, established the St. Louis Medical College, an institution which maintained independent status until 1891 when it became affiliated with Washington University. The work of McDowell's School was interrupted by the Civil War, but was resumed afterwards in new buildings, and again (1886) affiliated with the University of Missouri for a brief period. Finally, in 1899, in its second period as an independent school, it was united with the St. Louis Medical College in the Washington University Medical Department. The Medical Fund Society, an association of members of the St. Louis Medical faculty, created (1872-75) an endowment fund for the support of teaching.

The Washington University Medical Department was established in 1891 by the affiliation of the St. Louis Medical College with the University. Eight years later, on the union of the Missouri Medical College with the Department, the faculty was enlarged, clinical facilities were increased, additional

¹ For a more complete historical statement of all departments of the University see bulletin of the College of Liberal Arts.

space and equipment were obtained, the curriculum was strengthened and greater opportunity for investigation provided. The Missouri Medical College building on Jefferson Avenue was remodeled and converted into the Washington University Hospital for teaching purposes and at this time (1905) the Maternity Department was opened and the Training School for Nurses was begun. The Polyclinic Hospital, with an addition, became the Washington University Dispensary. The Martha Parsons Children's Hospital was affiliated in 1906.

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

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

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

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

LABORATORIES AND CLASS ROOMS

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

Adjacent to the corridor connecting the North and South Buildings are the Book Store and Cafeteria.

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

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

CLINICAL FACILITIES

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

By the terms of the affiliation the Faculty of the School constitutes the professional staffs of these hospitals as well as of the University Clinics, an arrangement that makes for

continuity of medical care and instruction in all divisions. The Clinics serve as outpatient departments of the hospitals, and furnish instruction in the care of ambulatory patients.

About 125,000 visits are made yearly to the University Clinics in all departments. The Barnes Hospital has 450 beds, of which about 180 are in wards used for undergraduate teaching, allocated mainly to the departments of Medicine and Surgery. The St. Louis Children's Hospital has 208 beds and the St. Louis Maternity Hospital 100 beds plus 100 bassinets. Patients on the ophthalmological and otolaryngological services are assigned to the various hospitals.

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

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

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

The patients in certain of the St. Louis City Hospitals are also utilized for both undergraduate and graduate teaching. By arrangement with the Hospital Commissioner, the Medical School nominates the staffs for a unit (one-third) of the City Hospital, a unit (one-half) of the Bliss Psychiatric Institute, and the senior staff (1939-41) of the Homer Phillips Hospital. The facilities of these large and varied hospital services are being increasingly used for teaching and research by organized staffs from all clinical departments of the School.

The Isolation Hospital (for contagious diseases) and the City Sanitarium (for mental diseases) are also used for study and teaching in these subjects.

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

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

LIBRARY

The Library contains (October 1, 1939) 55,140 bound volumes and receives 532 medical periodicals, selected with reference to the needs of students and investigators. There are 740 complete sets of periodicals.

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

The Library is open week days from 8:30 a. m. to 10:00 p. m. During the summer vacation the hours are 9:00 a. m. to 5:00 p. m.

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

LEO LOEB LECTURESHIP

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

ROBERT J. TERRY LECTURESHIP

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

REQUIREMENTS FOR ADMISSION

The first year class is now limited to eighty-two students. From the much larger number of applicants the faculty committee on admissions tries to select those who on the basis of demonstrated ability and personal qualities appear best fitted to take up the study of medicine. Personality, character and aptitude, health and individual initiative, as evidenced by the opinions of college teachers and others as well as by interviews with applicants, are important qualifications. In considering scholastic records, the quality of the work done is given greater weight than the quantity of credits. Applicants are required to take the aptitude test conducted by the Association of American Medical Colleges.

To be eligible for admission to the first year class the following scholastic requirements must be met.

(1) Completion of college courses leading to the Bachelor's degree in Arts or Sciences from an approved university or college.

(2) In exceptional cases applicants without a degree may be accepted, provided they have at least three years of college work with high scholastic standing and are otherwise rated as very well qualified.

In all cases the college work must include the following subjects:

(a) A knowledge of English such as is required of all candidates for the degree by approved colleges. (At least six semester hours).

(b) A reading knowledge of either German or French, such as may ordinarily be acquired in two years of college work. (10 semester hours).

(c) At least two years work in inorganic and organic chemistry, with laboratory work in both. (Total at least 15 semester hours). Elementary quantitative analysis is regarded as almost essential.

(d) A course in general physics, with laboratory work which should be mainly quantitative in character. (8 semester hours).

(e) Courses in zoology. (8 semester hours). A course in embryology is desirable.

It is recommended that students preparing themselves for the study of medicine so arrange their courses as to acquire

a more extensive knowledge of the subjects forming the foundation of the medical sciences than can be obtained in courses which satisfy the minimum requirements. The field covered by the practice of medicine and by the medical sciences is so broad that those whose special interests and capabilities lead them to an intensive study of either chemistry, physics, or biology are sure to find an application for the knowledge and skills they acquire. Those preparing to enter the medical profession should possess besides an adequate foundation in science, a liberal culture such as may be gained from an acquaintance with English literature, from a knowledge of history, the social sciences and the classics. Facility in the clear and accurate use of the English language should be acquired by all.

Applications for admission should be filed at as early a date as possible, and in all cases before March 1 of the year during which admission is sought. Applicants are required to take the aptitude test of the Association of American Medical Colleges, except where specifically excused by the School.

An applicant acceptable to the faculty is required to make a deposit of fifty dollars, which shall be in the hands of the Registrar within ten days after notification of acceptance. This deposit of fifty dollars will be applied toward the first payment of tuition, provided the applicant enters during the term for which the application was accepted. The deposit is not returnable.

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

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

ADMISSION TO ADVANCED STANDING

Applications for advanced standing will be considered only insofar as there are vacancies in the classes. Applications should be filed at as early a date as possible, and under any

circumstances before March 1 of the year during which admission is sought. Only those students who have unconditional standing in the medical schools from which they seek to be accredited will be accepted for admission to advanced classes. An applicant acceptable to the faculty is required to make a deposit of fifty dollars, which must be received by the Registrar within ten days after notification of acceptance. This deposit will be applied toward the first payment of tuition, provided the applicant enters during the term for which the application was accepted. The deposit is not returnable.

Applicants for admission to advanced standing (1) must furnish evidence that the requirements for admission to the first year class 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) in doubtful cases may be required to pass an examination in any of the subjects for which credit is sought. 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 he seeks admission.

(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 credit in anatomy, chemistry, physiology, bacteriology, clinical chemistry and microscopy, pathology, and pharmacology may be permitted to enter the third year class. At the discretion of instructors, such students may be examined in any of these subjects at the end of the third year. (c) Only rarely are new students accepted for the fourth year class.

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

ADMISSION OF GRADUATES IN MEDICINE

Those who already hold the M.D. degree are rarely accepted as candidates for that degree, but may be admitted to the School on the following basis: (1) Those regarded as qualified to participate in 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. (3) A limited number of graduate physicians, or others who may be qualified, may be admitted to courses with the undergraduate classes subject to the consent of the instructors and the head of the department. Fees for special courses, individual instruction or material will be determined in each case by the Dean, in conference with the head of the department in which the work is done. (4) Special courses are offered concerning which full information will be given upon request. (See page 83.)

STANDING AND PROMOTION

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

The standing of students is determined by the average of the grades assigned by the several departments weighted in proportion to the number of hours taken. The passing grade in an individual course is 70 but a weighted average of less than 75 is regarded as unsatisfactory.

Promotion from one class to another is based on a review of the general standing and fitness of the student by Committees on Standing and Promotion, of which there are two, one for the first two years and one for the last two. Each of the departments concerned may be represented on these committees by three members, of which but one is entitled to vote. The decisions of the Committees are guided by rules adopted by the Faculty.

(a) Students who at the end of the first or second year have recorded against them failures in any two of the following subjects, dissection, histology with neurology, physiology, biological chemistry, medicine, pathology or bacteriology, will be required to withdraw from the School; or, under exceptional

conditions, the student may be allowed instead to pursue additional work in the subjects in which he is deficient before being admitted to the next class.

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

(c) A student who at the end of the third year has failed in any two major courses, will be required to withdraw from the School, or may be required to do additional work as stated above.

(d) For promotion to the fourth year, credit must have been received for all major subjects.

(e) A student who, because of poor quality of work in courses, or for any other reason, is judged by the Committee as unqualified to continue the study of medicine, will be required to withdraw from the School. A weighted average of less than 75 in any one year ordinarily will be regarded as indicative of unsatisfactory work.

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

REQUIREMENTS FOR DEGREES

DOCTOR OF MEDICINE

Candidates must be more than twenty-one years of age and of good moral character. They must have attended not less than four annual courses of medical instruction as matriculated medical students, at least 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 students who have fulfilled these requirements will be recommended for the degree of Doctor of Medicine.

BACHELOR OF SCIENCE IN MEDICAL SCIENCE

High ranking students may become candidates during the course for the degree of Bachelor of Science in Medical Science, provided the quality of work done in required courses is satisfactory and permits of the necessary additional study. Acceptance as candidates for this degree is granted not earlier

than after completion of the courses of the first year. Requirements for the degree are the satisfactory conduct of an investigation in one of the medical sciences and the preparation of an acceptable thesis, which must be presented to the head of the department concerned by May 1st of the year the degree is to be awarded. Compliance with the requirements for this degree will not usually be attained before the end of the third or fourth year.

HOSPITAL APPOINTMENTS

An internship in an approved hospital for one or more years is recognized as a necessary preparation for the practice of medicine and all members of the graduating class except those preparing for a career in laboratory work are expected to arrange for internships. During the first part of the senior year students confer with the Assistant Dean who advises relative to obtaining suitable hospital appointments.

Internship in the hospitals affiliated with Washington University are available to those having a high record throughout the medical course and possessing satisfactory personal qualifications. They are made by the Intern Committee of the School during the month of December, each year. About forty-four intern appointments are at the disposal of the School.

PRIZES

GEORGE F. GILL PRIZES:

1. One prize of fifty dollars is awarded at the end of the first year to the member of the class who has made the highest grade in anatomical work.
2. One prize of fifty dollars is awarded to a member of the graduating class, of high general standing, who has done especially good work in the Department of Pediatrics.

ALPHA OMEGA ALPHA FRATERNITY PRIZE is awarded at the end of the fourth year to the member of that class who has made the highest average for the entire medical course.

The ALEXANDER BERG PRIZE of one hundred dollars is awarded to a student of high general standing who presents the best results in research in bacteriology.

FELLOWSHIPS, STUDENT ASSISTANTSHIPS,
AND SCHOLARSHIPS

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

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

The amount of the stipend is not fixed, being determined in each case by the need of the individual for financial aid. Award of a Jackson Johnson Scholarship is regarded as a mark of distinction, and carries certain privileges in the School. When made to students not in urgent need of financial aid, the award carries no stipend or only a nominal stipend. For those recipients whose resources are inadequate for tuition and living expenses, the stipends will be set at amounts that will permit maintenance during the academic year without outside employment for support. Holders of these scholarships are not permitted to engage in outside employment, except with the consent of the Dean. The object is to aid in providing favorable circumstances for the development of the student's talents. Employment having educational value in laboratories of the School, with or without compensation, is occasionally available to holders of scholarships as also to other students. During the year 1939-40 there are nineteen holders of Jackson Johnson Scholarships in the first three classes, the average stipend being \$550. The maximum (including stipends of student-assistantships) is \$900.

Applications for 1940-41 will close on January 1, 1940. Applications for 1941-42 should be submitted, on blanks provided for the purpose, between October 1, 1940 and January 1, 1941.

Loans from the Jackson Johnson Fund are available to stu-

dents in the upper three classes of the School who are in urgent need of financial aid. The loans are granted by the Chancellor on the recommendation of the Dean.

A SURGICAL FELLOWSHIP is awarded on recommendation by the Department of Surgery for special neurological work. The stipend is \$1,200 per year. Candidates must be graduates in medicine, and those who have had one year's internship are preferred.

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

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

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

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

The ELIZA McMILLAN STUDENT AID FUND. From the bequest of the late Mrs. Eliza McMillan, the annual income on \$7,000 provides a scholarship for a deserving woman student in the School of Medicine. The awards are made by the Chancellor.

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

THE JOSEPH H. ROBLEE SCHOLARSHIPS. Provided through the gift of Mrs. Florence A. Roblee (Mrs. Joseph H. Roblee),

the income from the Joseph H. Roblee Scholarship Endowment Fund of \$12,000 maintains two scholarships annually. They are awarded by the Chancellor to qualified, worthy and deserving students in any division of the University.

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

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

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

Applications for all fellowships, scholarships and assistantships may be made to the Dean.

REGISTRATION

Registration for the first half year, 1940-41, is scheduled for Tuesday, September 24, and Wednesday, September 25, 1940; for the second half year, Monday, February 3, 1941. Hours for registration are 9 to 11:30 and 2 to 5 daily.

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

FEEES AND EXPENSES

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

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

such cases a partial refund may be made, which will not exceed one-half of the unexpired balance of the tuition for the term.

Checks should be made payable to Washington University.

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

TUITION FEE. For undergraduate students registered in the School before September, 1938 the tuition fee is \$400.00. For those matriculating after September 1, 1938 the tuition fee is \$500.00, payable in two equal installments, at the beginning of the first and second semesters.

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

BREAKAGE DEPOSIT. Each student is required to deposit \$10.00 annually to cover breakage in the School of Medicine, clinics and hospitals. Any balance of this deposit will be returned at the end of each year. At any time the amount of breakage exceeds the amount of deposit an additional deposit will be called for.

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

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

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

MICROSCOPES AND DIAGNOSTIC INSTRUMENTS

Each student entering the Freshman class is required to possess a standard microscope equipped with a substage light.

All students are required to provide themselves with stethoscopes, ophthalmoscopes, otoscopes, hemocytometers, percussion hammers, tape measures, flashlights, head mirrors and skin pencils as the need for them arises.

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

ESTIMATE OF EXPENSES

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

Tuition	\$500.00
Breakage Deposit	10.00
Matriculation Fee (payable once)	5.00
Health Service Fee	8.00
Books and Instruments	\$ 50.00 to 100.00
Room and Board (from \$6.00 to \$15.00 a week)	210.00 to 500.00
Total	<u>\$783.00 to \$1,123.00</u>

MEN'S DORMITORY OF THE SCHOOL OF MEDICINE

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

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

GENERAL PLAN OF INSTRUCTION

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

The course of study required of candidates for the degree of Doctor of Medicine is designed for students who have already received certain preliminary training. As stated in detail on p. 42, the student on entering the School must have a knowledge of chemistry, physics, zoölogy, English and either German or French.

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

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

The second period, extending through the last two years, is devoted primarily to clinical work. The student receives practical instruction in the clinics and in the hospital wards of medicine, surgery, obstetrics and pediatrics and of the medical and surgical specialties. During his assignment to the wards of the hospitals the student at first is given practice and in-

struction in history taking, physical examination and elementary diagnosis and may then spend his entire day in the wards with duties differing little from those of a junior intern. The work in the clinics with ambulant patients occupies from six to eight hours per week for a year or more. Here the students under supervision act as physicians and as surgical dressers. During this period courses are given in neurological pathology, surgical and gynecological pathology and in operative surgery on animals. Special emphasis is placed upon diagnosis of disease and treatment of patients. There are few purely didactic lectures. Instruction is given in clinics and at the bedside.

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

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

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

SUMMARY OF THE MEDICAL CURRICULUM

FIRST YEAR		SECOND YEAR	
SUBJECT	HOURS	SUBJECT	HOURS
Dissection	395	Physiology	184 ✓
Histology	201	Bacteriology	168 ✓
Neuroanatomy	100	Immunology	44
Biological Chemistry..	264	Pathology	308 ✓
Physiology	64	Pharmacology	110
Medical Psychology ..	16	Medicine	203
Military Science	(33)	Ophthalmoscopy	6
.....	...	Surgery	55
.....	...	Military Science	(33)
Total, excluding Military Science..		Total, excluding Military Science..	
	1040		1078
THIRD YEAR		FOURTH YEAR	
SUBJECT	HOURS	SUBJECT	HOURS
Pathology	55	Pathology	24
Medicine	240	Medicine	319
Neuropsychiatry	110	Neuropsychiatry	55
Dermatology	11	Surgery	297
Surgery	290	Obstetrics and Gynecology	179 ¹
Obstetrics and Gynecology	109	Pediatrics	97
Ophthalmology	11	Otolaryngology	40
Otolaryngology	22	Ophthalmology	40
Pediatrics	88	Radiology	12
Pharmacology	22	Military Science	(32)
Public Health	44	Electives .....	...
Medical Jurisprudence	11	Total (excluding Military Science and electives) ..	
Radiology	4		1063
Stomatology	11		
Anatomy	22		
Military Science	(33)		
Total, excluding Military Science..			
	1050		

Handwritten notes in a circle:
184
168
308

660

539

¹ In addition, each student is required to attend twelve deliveries.

COURSES OF INSTRUCTION

ANATOMY

(The Department of Anatomy includes Gross Anatomy, Cytology and Neurology.)

PROFESSORS TERRY, COWDRY.

ASSOCIATE PROFESSORS TROTTER, SCOTT, O'LEARY.

ASSISTANT PROFESSORS WILLIAMS, SEIB, CHARLES.

INSTRUCTOR BARTLETT.

ASSISTANT LANIER.

RESEARCH ASSOCIATE MACCARDLE.

STUDENT ASSISTANT FRANKLIN.

The Department of Anatomy provides courses adapted to the medical curriculum and offers facilities also for advanced study and research.

The courses for medical students are based upon laboratory study, supplemented by series of correlated lectures, demonstrations and recitations. Students are encouraged to learn anatomy at first hand from the living subject, from experimental evidence and from prepared material in the laboratories. Visits to clinical conferences, occasional attendance at autopsies, clinical lectures introduced into the anatomical lecture program are ways and means employed in the teaching plan. Because the several courses (gross anatomy, histology, neuroanatomy) are fundamental and, together with the other courses of the first year, introduce the beginner into the study of medicine, much thought has been given to their planning, and every effort is made to train the student in scientific method, for independence in work, and toward the development of high ideals of purpose and accomplishment.

Opportunity to pursue advanced study and investigation is provided for qualified students and graduates. Facilities for experimental work, especially in the fields of cytology and neuroanatomy, are excellent. Statistical studies of human anatomy, and research in physical anthropology, are provided for by extensive documented material.

FIRST YEAR

1. HUMAN DISSECTION. The course offers opportunity for the systematic study of the gross structure of the human body. Dissection 12 hours a week in the first trimester; 9 hours in the second and third. Lectures twice a week throughout the year. 395 hours.

(Drs. Terry, Trotter, Williams, Seib, Charles)

2. **HISTOLOGY.** A laboratory course occupying five mornings a week during the first trimester. There are two lectures a week and many informal discussions in the laboratories. 201 hours. (Drs. Cowdry, Scott, O'Leary)

3. **NEUROLOGY.** A laboratory course occupying six mornings a week during the first half of the second trimester. Three weekly lectures are devoted to topics not easily accessible to the student. 100 hours. (Drs. O'Leary, Cowdry, Scott)

THIRD YEAR

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

ELECTIVE COURSES

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

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

7. *Advanced Study and Research in Gross Anatomy and Physical Anthropology.* Opportunity is offered undergraduates and graduates in medicine for advanced laboratory study of selected topics. Hours to be arranged.

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

9. *Research.* Properly qualified students will be given opportunity to carry on investigations in the fields of histology, cytology, embryology, and neurology.

10. *Graduate Courses in Anatomy.* See Bulletin of The School of Graduate Studies.

BIOLOGICAL CHEMISTRY

PROFESSOR SHAFFER.

ASSISTANT PROFESSORS ETHEL RONZONI BISHOP, URBAN.

INSTRUCTORS FREIBERG, PREISLER, GREAVES.

FIRST YEAR

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

(Drs. Shaffer, Ronzoni Bishop, Urban, Preisler, Greaves)

ELECTIVE COURSES

4. *Advanced Work.* Courses of laboratory work and selected reading, under guidance of a member of the staff, will be arranged to suit individual needs.

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

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

PHYSIOLOGY

PROFESSOR ERLANGER.

ASSOCIATE PROFESSORS H. LESTER WHITE, GILSON.

INSTRUCTORS PEUGNET, EDGAR A. BLAIR.

FIRST AND SECOND YEARS

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

(a) Lectures and recitations. Second semester of the first year and first trimester of the second year. 110 hours.

(b) Laboratory. First trimester of the second year. 138 hours.

(Drs. Erlanger, White, Gilson, Peugnet, Blair)

ELECTIVE COURSES

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

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

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

BACTERIOLOGY AND IMMUNOLOGY

PROFESSOR BRONFENBRENNER.

ASSISTANT PROFESSORS VARNEY, HERSHEY.

INSTRUCTORS TSUCHIYA, MORRIS, HARFORD, STRITAR, SULKIN.

ASSISTANT GRONAU.

STUDENT ASSISTANTS STILLERMAN, LOVE.

SECOND YEAR

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

tures of control. Fifteen hours a week during the first trimester. 168 hours.

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

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

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

ELECTIVE COURSE

Research. The facilities of the laboratory are open to those properly qualified for research in Bacteriology and Immunology.
(Dr. Bronfenbrenner and Staff)

PUBLIC HEALTH

PROFESSOR BRONFENBRENNER.

ASSISTANT PROFESSOR VARNEY.

INSTRUCTOR TSUCHIYA.

LECTURERS BREDECK, WILLETT, MEYER, PHILLIPS, BOARD, DYKTOR.

THIRD YEAR

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

(Dr. Bronfenbrenner and Staff of Extramural Lecturers)

ELECTIVE COURSE

Public Health Field Work. This is corollary to the basic course as given to third year medical students. The course consists of field trips and illustrated lectures covering public health, industrial, administrative, and other establishments

whose activities are of interest to physicians and public health workers, and of a health survey. The class meets on Friday afternoons during the first and second trimesters.

(Drs. Bredeck, Meyer, Varney, Mr. Dyktor)

PATHOLOGY

EDWARD MALLINCKRODT PROFESSOR ROBERT A. MOORE.

ASSISTANT PROFESSOR MARGARET G. SMITH.

INSTRUCTORS WHEELER, ALLEN, LENNETTE,¹ MANTZ, W. O. RUSSELL, HELWIG.

LECTURER POTE.

ASSISTANTS PETKEVICH,² SLUSSER, W. G. BROWN, AHRENS, REAMES.
RESEARCH ASSISTANT MILLER.

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

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

Clinico-pathological conferences conducted with the departments of Medicine, Surgery and Pediatrics are open to interested physicians and students.

SECOND YEAR

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

Smith, Helwig, Wheeler, Russell, Mantz and Staff)

THIRD YEAR

2. GROSS PATHOLOGY. Small groups of students present the specimens from recent post-mortems to the entire class. The

¹ Resigned August 1, 1939.

² Resigned November 1, 1939.

clinical features of the cases are discussed and theoretical considerations are reviewed. Two hours a week in the first trimester. 22 hours. (Dr. Moore)

3. NEUROPATHOLOGY. Lectures, demonstration and laboratory work consider the more common diseases of the nervous system. The subject matter is correlated with the lectures in Neurology 3a. One hour lecture and one hour laboratory a week in the first trimester. 22 hours. (Dr. Russell)

THIRD AND FOURTH YEARS

4. CLINICAL AND PATHOLOGICAL CONFERENCE. The clinical history and treatment of patients who have died are discussed before the class by the physicians and surgeons of the departments concerned. These conferences afford the students an opportunity to interpret the clinical observations in the light of the post-mortem findings. One hour a week during five trimesters. 55 hours. (Drs. Moore, Smith, Helwig)

ELECTIVE COURSES

5. *Research*. The laboratory offers facilities for research in pathology. Specialists and students with adequate training who desire to extend their knowledge of pathology will be admitted. (Drs. Moore, Smith)

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

THE EDWARD MALLINCKRODT DEPARTMENT OF PHARMACOLOGY

PROFESSOR CARL F. CORI.
ASSOCIATE PROFESSOR HELEN TREDWAY GRAHAM.
RESEARCH ASSOCIATE GERTY T. CORI.
INSTRUCTOR A. DEM. WELCH.
ASSISTANT KOHL.
RESEARCH ASSISTANTS SCHMIDT, COLOWICK.

SECOND AND THIRD YEARS

1. PHARMACOLOGY. (a) Lectures, recitations and demonstrations covering the general field of pharmacology, including toxicology, chemotherapy and prescription writing. Four hours a week during the second trimester of the second year and two hours a week during the second trimester of the third year. 66 hours.

(b) **LABORATORY COURSE.** A course arranged to demonstrate the chemical properties and pharmacological action of the more important drugs, and at the same time to familiarize the student with methods and processes used in experimental pharmacology. Six hours a week during the second trimester of the second year. 66 hours.

(a) or (b) may be taken alone by special students. Prerequisite, anatomy, biological chemistry and physiology.

(Drs. Cori, Graham, Welch)

ELECTIVE COURSES

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

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

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

THE JOHN T. MILLIKEN DEPARTMENT OF MEDICINE

(The Department of Medicine includes Internal Medicine and Dermatology.)

BUSCH PROFESSOR BARR.

PROFESSOR ALBERT E. TAUSSIG.

ASSOCIATE PROFESSORS ELMER, ALEXANDER, OLMSTED, LUTEN, LARIMORE.

ASSISTANT PROFESSORS EWERHARDT, BULGER, LAWRENCE, THOMPSON, KOUNTZ, JENSEN, MACBRYDE, FINDLEY, CARL MOORE, KETTELKAMP.¹

INSTRUCTORS BAUMGARTEN, COOK, SALE, LOUIS H. HEMPELMANN, FISCHER, GORHAM, EYERMANN, STRAUSS, GRANT, CADY, ALFRED GOLDMAN, LIGGETT, DUDEN, BREDECK, DAY, RUSK, STROUD, AITKEN, JEAN, BROMBERG, GOTTLIEB, MYERS, BARRETT TAUSSIG, KENAMORE, SEIBEL, HAGEMAN, MASSIE, EDWARDS, KAHN, LUTHER TERRY, JOHN R. SMITH, MURPHY.¹

ASSISTANTS GAY, ABEL, BECKE, RICHMAN, GLASSBERG, MEHRTEN, MILTON SMITH, LEE B. HARRISON, CANNADY, NEWMAN, SKILLING, CECIL M. CHARLES, MANSBACHER, KEITH WILSON, BEAM, HOLDEN, SEDDON, KOENIG, SCHEFF, HORNER, BIERBAUM, AGRESS, ARROWSMITH, ELLIOTT, THEODORE JONES, KELLEY, KINGSLAND, BEN CHARLES, DRAKE, BENNETT, HARFORD.

STUDENT ASSISTANT WRIGHT.

¹ Effective December 1, 1939.

Instruction in medicine commences with the second trimester of the second year and continues throughout the third and fourth years of the curriculum. The teaching of the second year has two main objectives—first, the correlation of the basic sciences with the clinical aspects of disease, and secondly, training in the technical methods of history taking, physical diagnosis and clinical microscopy. By the beginning of the third year the student is prepared for supervised clinical study of individual patients in the wards of Barnes Hospital. Simultaneously he receives formal instruction in the natural history of disease and in medical therapeutics. In the final year each student acts for two months as clinical clerk in the medical clinics, and for two months in the wards of Barnes Hospital and the St. Louis City Hospital.

SECOND YEAR

1. ELEMENTARY MEDICINE.

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

(b) Physical Diagnosis. Lectures, demonstrations and practical exercises in the technique of physical diagnosis. Instruction and practice in history taking. Four hours each week during the second trimester. Three hours each week during the third trimester. 77 hours. (Dr. Myers and Assistants)

(c) Clinical Chemistry and Microscopy. Lectures and laboratory course in methods of microscopic and chemical diagnosis. Eight hours each week during the third trimester. 88 hours. (Dr. Carl Moore and Assistants)

THIRD YEAR

2. CLINICAL STUDY UNDER SUPERVISION OF PATIENTS IN THE WARDS OF BARNES HOSPITAL. To each student one case is assigned each week for complete study and written report. The work is supervised by preceptors each of whom has responsibility for one-fourth of the group. Frequent informal conferences are held. Two hours five days each week for one trimester. 110 hours.

(Drs. B. Taussig, Bromberg, Drake, Seddon, Wilson)

3. THERAPEUTICS. General survey of methods and principal agencies employed in the medical treatment of disease. One hour each week during the second trimester. 11 hours.

(Dr. Barr)

4. DIETETICS. Lectures and recitations on the principles and practice of dietetics. One hour each week during the second and third trimesters. 22 hours.

(Dr. Olmsted)

5. MEDICINE RECITATION. General survey of the natural history and special treatment of disease, with assigned reading in a textbook of medicine. Two hours each week throughout the year. 66 hours.

(Drs. Grant, Goldman)

7. (a) MEDICAL CLINICS. 33 hours. (See under Fourth Year).

FOURTH YEAR

6. MEDICINE.

(a) Clinical Clerkship in Barnes Hospital. With the exception of the hour for noon clinics, the entire day is spent in the wards. Cases are assigned for complete study and report. Ward rounds and frequent informal conferences are held. 144 hours.

(Drs. Barr, Alexander and Staff)

(b) Clinical Clerkship in City Hospital. Mornings are devoted to the study and review of patients in the medical wards. Ward rounds and conferences are held. 72 hours.

(Drs. Findley, Jensen and Staff)

(c) Clinical Clerkship in the University Clinics. Students act as physicians in the Medical Clinic under the supervision of consultants.

(Drs. Alexander, Bulger,

Cook, Day, Fischel, Gottlieb, Jean, Kountz, Rusk, Sale)

7. MEDICAL CLINICS.

(a) Cases which have been investigated by students working in the wards are presented before the third and fourth year classes. Once each week throughout the year. 33 hours.

(Drs. Barr, Alexander, Albert Taussig)

(b) The diagnosis and treatment of certain medical specialties are discussed. These include diseases of metabolism and of the heart, lungs and gastrointestinal tract. Once each week throughout the year. 33 hours.

(Drs. Larimore,

Luten, Olmsted, Goldman, Carl Moore, Myers)

8. CLINICAL AND PATHOLOGICAL CONFERENCE. (See Pathology 4).

ELECTIVE COURSES

9. *Diagnosis and Treatment of Venereal Diseases.* Clinical Clerkship in the Night Venereal Division of the University Clinics. (Drs. Lawrence, Aitken and Staff)

10. *Diagnosis and Treatment of Diseases of Gastrointestinal Tract.* Clinical Clerkship in the Gastrointestinal Division of the University Clinics. (Dr. Kenamore)

11. *Diagnosis and Treatment of Diseases of the Heart.* Clinical Clerkship in the Cardiac Division of the University Clinics. (Drs. Strauss, Liggett)

12. *Medical Diagnosis.* Clinical Clerkship in the Afternoon Medical Division of the University Clinics. (Dr. Seibel)

13. *Applied Immunology.* Open to a limited number of students. Hours by arrangement. (Dr. Alexander)

14. *Hematology.* In a series of eleven lectures, the field of clinical hematology is surveyed. Special attention is given to differential diagnosis and to consideration of the mechanisms by which the specific blood syndromes are produced. An attempt is made to provide more intimate acquaintance with certain of the special technics frequently used: supra-vital staining, bone marrow examinations, oxidase stain, platelet and reticulocyte methods, hematocrit, etc. Clinical material will be demonstrated whenever possible. (Dr. Carl Moore)

NEUROPSYCHIATRY

PROFESSORS RIOCH, JACOBSEN, WHITEHORN, SCHWAB.

ASSOCIATE PROFESSOR FELIX DEUTSCH.

ASSISTANT PROFESSORS A. B. JONES, CARR, SATTERFIELD, TUREEN.

INSTRUCTORS KUBITSCHK, BELL, H. VARNEY, GITT, MAUGHS, FINGERT.
LECTURER EMERY.

ASSISTANT KENDALL.

RESEARCH FELLOWS BUCHMUELLER, NADELL.

STUDENT ASSISTANTS REESE, MCQUEEN.

Instruction in the Department of Neuropsychiatry is given in all four years of the medical course. Lectures during the first semester are aimed at developing a basic appreciation of the emotional aspects of medical practice and study through a consideration of historical data and a critical examination of various concepts of human nature. Other lectures and demonstrations in the first and second years are designed to correlate clinical neurology with neuroanatomy and neurophysiology, laying special emphasis upon the integration of

organic functions through neural mechanisms and the encephalization and corticalization of personality functions.

In the second year, in correlation with medical and surgical instruction in physical examination and history-taking, elementary instruction is given in the technique and rationale of neurological and psychiatric examination, including anxieties and interpersonal relationships as medical data, with special emphasis upon the influence of personal life experience in determining or modifying reactions to disease.

In the third year lectures and readings in psychopathology and psychotherapy are intended to deepen and clarify the students' understanding of psychobiological phenomena, including neuroses, psychoses and psychosomatic relationships. Instruction in sections is centered primarily on the psychiatric interview as a basic method of study and therapy. Representative syndromes are studied in clinics and in case records. Most of the psychiatric instruction of the fourth year is given in clinical clerkships and group conferences.

Instruction in neurology in the third year is divided into three parts. 1. A systematic presentation in lectures and demonstrations of affections of the nervous system classified on the basis of etiology. This is combined with the course in neuropathology with lectures and laboratory exercises based on the study of gross and microscopical preparations. 2. Lectures with demonstrations on the semeiology of affections of the nervous system. 3. Bed-side instruction in the technique and interpretation of the neurological examination. In the fourth year the commoner neurological diseases are presented at the noon clinics and weekly ward rounds for the medical group. Emphasis is laid on the biology of the disease and on the rationale of therapy. In the University Clinics and at the Neurological Wards of City Hospital the students participate under supervision in the diagnosis and treatment of assigned patients.

FIRST YEAR

1. NEUROPSYCHIATRY.

INTRODUCTION TO MEDICAL PSYCHOLOGY. Lectures, discussion and reading concerning attitudes and emotional reactions affecting the study and practice of medicine at present and in the past. Critical discussions of present schools of psychological thought. One hour a week for twelve weeks. 12 hours.

INTEGRATIVE NEUROANATOMY AND NEUROPHYSIOLOGY. A series of lectures, demonstrations and clinics concerning integrated functions of the organism, given as part of Anatomy 3 and Physiology 2. The purpose of this series is to correlate laboratory investigations of the nervous system with clinical problems. Approximatey 8 hours in first and second years.
(Drs. Jacobsen, Whitehorn, Rioch and Assistants)

SECOND YEAR

2. **PSYCHIATRY. PSYCHOBIOLOGY.** [Part of Medicine 1(a).] Discussion of the influence of personality functions in modifying the personal and organic reactions to illness. The interview as a method of combined study and treatment of patients' personal problems and anxieties. Interpersonal relationships as medical data. 12 hours.
(Dr. Whitehorn)

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

THIRD YEAR

3. PSYCHIATRY.

(a) **PSYCHOPATHOLOGY AND PSYCHOTHERAPY.** Lectures, reading and discussion concerning psychiatric principles involved in the interviewing of patients, and in the formulation of patients' needs and therapeutic programs. Two hours a week for one trimester. 22 hours.

(Drs. Whitehorn, Deutsch, Emery)

(b) **PSYCHIATRIC INTERVIEWING.** Psychobiologically oriented study and treatment of ambulatory patients, as demonstrated and discussed in the Neuropsychiatric Clinic of the University Clinics. Two hours a week for one trimester. 22 hours.
(Drs. Satterfield, Varney, Whitehorn, Deutsch)

(c) **CLINICAL DEMONSTRATION.** Presentation and discussion of psychotic patients at the Bliss Institute and City Sanitarium. Two hours a week for one trimester. 22 hours.

(Dr. Jones)

3. NEUROLOGY.

(a) **CLINICAL NEUROLOGY.** Lectures, with demonstrations, on diseases affecting the nervous system. The first half of

the course is given in conjunction with Neuropathology 3(b) and emphasis is laid on the biology of the disease and the rationale of therapy. The last half of the course is devoted to the semeiology of affections of the nervous system. One hour a week, first and second trimesters. 22 hours.

(Drs. Rioch, Jacobsen)

(b) NEUROPATHOLOGY. (See Pathology 3 for description.) This course is given in conjunction with the course in Clinical Neurology 3(a). Two hours a week, first trimester. 22 hours.

(Drs. Russell, R. A. Moore, Tureen, Rioch and Assistants)

(c) CLINICAL DEMONSTRATIONS [Part of Medicine 2.] Neurological cases on the wards of the Barnes Hospital are studied. The object of these exercises is to teach the technique and interpretation of the neurological physical examination. One hour a week, one trimester. 11 hours. (Dr. Jones)

FOURTH YEAR

4. PSYCHIATRY.

(a) PSYCHIATRICAL CLINIC. An exercise every other week throughout the year, alternating with the Neurological Clinic [Neurology 4(a)]. The more important psychiatric reaction types are presented and discussed with illustrative cases from the Barnes Hospital wards or the University Clinics. One hour every two weeks throughout the year. 17 hours.

(Drs. Whitehorn, Deutsch, Jacobsen)

(b) CLINICAL CLERKSHIP IN THE UNIVERSITY CLINICS. [Part of Medicine 6(c).] The students participate in the study and treatment of assigned cases under the supervision of consultants.

(Drs. Whitehorn, Schwab, Varney, Maughs, Kubitschek)

(c) CLINICAL CLERKSHIP IN THE BLISS PSYCHIATRIC INSTITUTE. [Part of Medicine 6(b).] One-quarter of the medical group at the City Hospital spends a week from 9 to 12 in the mornings, and late afternoons on the wards at the Bliss Institute. The students participate in the diagnosis and treatment of assigned cases under supervision. Ward rounds and discussions are held. Three hours or more a day for one week. 18 hours.

(Drs. Whitehorn, Bell, Carr, Fingert)

4. PSYCHOSOMATIC MEDICINE. [Part of Medicine 6(a).] Practical participation in the clinical study and discussion of

emotional factors in organic disease. Barnes Hospital Wards. One and one-half hours a week for one month. 6 hours.

(Dr. Deutsch)

4. NEUROLOGY.

(a) NEUROLOGICAL CLINIC. An exercise every other week throughout the year, alternating with the Psychiatric Clinic [Psychiatry 4(a)]. The more important neurological diseases and syndromes are presented and discussed with illustrative cases from the Barnes Hospital wards and University Clinics. In the discussion attention is directed to the present status of laboratory as well as clinical investigation bearing on the condition under consideration. One hour every two weeks throughout the year. 16 hours. (Drs. Rioch, Schwab)

(b) CLINICAL CLERKSHIP IN THE UNIVERSITY CLINICS. [Part of Medicine 6(c).] Students participate in the study and treatment of ambulatory neurological cases under the supervision of consultants.

(Drs. Schwab, Tureen, Carr, Gitt, Jones)

(c) CLINICAL CLERKSHIP IN NEUROLOGICAL WARDS, CITY HOSPITAL. [Part of Surgery 4(a).] One-quarter of the surgical group at the City Hospital spends a week from 10 to 12 in the mornings, and late afternoons on the neurological wards. The students take histories and make physical examinations on cases illustrating the commoner neurological diseases and syndromes. Ward rounds and conferences are held on these cases. (Drs. Rioch, Tureen, Gitt)

(d) WARD ROUNDS. Once a week ward rounds are conducted on neurological cases in the Barnes Hospital wards and in the City Hospital with the medical group at the respective institution. One hour a week for one quarter. 8 hours.

(Drs. Schwab, Carr, Rioch)

ELECTIVE COURSES

5. *Correlation of Medical and Neurological Problems with Clinical Demonstrations and Case Reports.* One hour per week during one quarter of the fourth year. 8 hours. (Dr. Carr)

6. *Clinical Demonstrations and Discussions of Neurological Diseases and Syndromes.* Patients on the Neuropsychiatric Ward of the Homer G. Phillips Hospital are studied and the problems of diagnosis and therapy discussed. Two hours a week for one month (January or February). 8 hours.

(Dr. Jones)

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

8. *Staff Conferences.* A psychiatric staff conference is held weekly at the Barnes Hospital and every other week at the Bliss Institute. Neurological staff conferences are similarly held, the psychiatric and neurological conferences alternating on successive weeks at the Bliss Institute. Interested students are invited to attend these conferences.

DERMATOLOGY

PROFESSOR MARTIN F. ENGMAN.

ASSISTANT PROFESSOR WEISS.

INSTRUCTORS CONRAD, COLEMAN, LANE, MARTIN F. ENGMAN, JR.

ASSISTANTS ESKELES, KILE,¹ BAGBY,² MARCUS.²

MYCOLOGIST MORRIS MOORE.

RESEARCH ASSOCIATE MACCARDLE.

THIRD YEAR

1. DERMATOLOGY. A lecture course on diseases of the skin and on syphilis preliminary to clinical courses of the fourth year. This course is a general survey of the etiology, symptomatology, pathology, and treatment of skin diseases and the history and pathology of syphilis. Third trimester. 11 hours.

(Dr. Engman)

FOURTH YEAR

2. An elective course, in which the student examines patients and is instructed in the diagnosis and treatment of diseases of the skin is held three days a week at the Barnard Free Skin and Cancer Hospital and two days a week at the University Clinics. Ten hours a week for four weeks. 40 hours. Other hours by arrangement.

(Drs. Engman, Weiss, Conrad, Coleman,
Lane, Engman, Jr.)

¹ Resigned October 1, 1939.

² Effective November 1, 1939.

THE MARY CULVER DEPARTMENT OF SURGERY

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

BIXBY PROFESSOR EVARTS A. GRAHAM.

PROFESSORS SACHS, SEELIG, VILRAY P. BLAIR, CLOPTON, KEY, ROSE.

ASSOCIATE PROFESSORS COPHER, ELMAN, HEINBECKER, J. BARRETT BROWN, WOMACK, FURLOW.

ASSISTANT PROFESSORS WILLARD BARTLETT, FISHER, STONE, DUFF S. ALLEN, CREGO, THEODORE P. BROOKES, ROWLETTE, DEAKIN, RAINEY, JOSTES.

INSTRUCTORS KLEMME, SANFORD, WILHELMI, HENRY S. BROOKES, JR., PROBSTEIN, WALTON, BLADES, SCHWARTZ, MCCARROLL, ROBERT BARTLETT, CORDONNIER, BRICKER.

ASSISTANTS KEYES, BYARS, CANNON, PATTON, KENNETH O. WILSON, THIEME, HAFFNER, HEIDEMAN, LEYDIG, BURFORD, DRESCHER, HARBISON, LISCHER, HAMPTON, ROCHE, LUNDMARK, PARKER, SHEFTS, WATTENBERG, ALTHAUS, CUTLER, FELLER, KOPP, PRUETT, SCHMIDTKE, MCDOWELL.

FELLOWS HOFSTATTER, KENT, NEWMAN, SATYASANGUAN.

INTRODUCTORY NOTE

The instruction in the Department of Surgery begins with an introduction to surgical principles at the end of the second year. In the junior year the students take their work in the outpatient department. This is arranged in such a manner that the students spend two mornings a week at the outpatient department of the St. Louis City Hospital, where they see many fractures and other acute traumatic cases. In addition to other courses a systematic survey of the general field of surgery is given in a conference and recitation course in which the class is divided into two sections in order to provide a more personal contact of the instructor with the students. The other courses in the junior year require no special comment. The principal teaching of clinical surgery is conducted in the senior year by means of ward clerkships. A large number of patients is provided for this work through the use of the wards of the Barnes and the St. Louis Children's Hospitals which immediately adjoin each other. The wards of St. Louis City Hospital are also used for this purpose. The senior surgical group spends one-half of its time at the Barnes and St. Louis Children's Hospitals and one-half at the City Hospital. The St. Louis Shriners' Hospital for Crippled Children is used for special lectures and demonstrations in the field of orthopedic surgery. During the time that each student serves as a ward clerk he will have between 30 and 40 cases of immediate concern to him. Daily ward conferences and the various dry clinics give opportunities for the students to become familiar not only with their own cases but with many

other cases as well. Special instruction in history writing, in examination of the patient and in various diagnostic and therapeutic techniques is given to small groups by the resident and assistant residents. These small groups are in the nature of tutorial classes. The students are also offered the privilege of attending all operations and usually they may participate as assistants in the operations on their own cases. During the period of ward clerkship each student will have for personal study a few cases representing the various specialities of surgery but the principal concentration of instruction is on the general surgical cases, particularly those of a sort which will be encountered by the general practitioner.

SECOND YEAR

1. INTRODUCTION TO SURGERY. A laboratory, demonstration and lecture course in which are studied certain fundamental processes of physiology and pathology as applied to surgery. The course includes the demonstration of patients illustrating various points under discussion. Five hours weekly during the third trimester. 55 hours. (Dr. Heinbecker)

THIRD YEAR

2. SURGERY. The course is subdivided as follows:

(a) SURGICAL OUTCLINIC. For one trimester a third of the class serve as dressers in the Surgical Division of the University Clinics. Cases are examined by the students and demonstrated to them. Special attention is devoted to follow-up cases. Under the supervision of assistants, the students take histories and apply dressings and bandages. 99 hours.

(Drs. Elman, Womack, Heinbecker, Rainey, Walton,
H. S. Brookes, Pruett, Schmidtke)

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

(Drs. Elman, Heinbecker)

(c) FRACTURES. Demonstrations, conferences and lectures on the more common fractures. This systematic presentation of the subject is preliminary to the extensive clinical experience in fractures offered to the senior students at the City Hospital. One hour weekly during the third trimester. 11 hours.

(Drs. Key, Copher)

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

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

(f) SURGICAL CONFERENCE. The pathology, diagnosis and treatment of surgical conditions, illustrated by patients, are discussed. A weekly exercise during three trimesters. 33 hours. (Dr. Sachs)

(g) GENITOURINARY SURGERY. Lectures and recitations in genitourinary surgery. Third trimester. 11 hours. (Dr. Rose)

3. SURGICAL PATHOLOGY. Weekly exercises of two hours for three trimesters, at which time the early pathological changes are considered from the standpoint of their clinical manifestations. Pathological material from the museum and operating room is studied both in the gross and microscopically. 66 hours. (Drs. Womack, Walton, Bricker)

FOURTH YEAR

4. SURGERY. The course is subdivided as follows:

(a) SURGICAL WARDS. For one quarter the student serves as assistant in the surgical wards. Half of the surgical group is at the St. Louis City Hospital for a period of four weeks while the other half is at the Barnes and the St. Louis Children's Hospitals. The group at the City Hospital spends its mornings in the wards of the hospital. The group at the Barnes and the St. Louis Children's Hospitals spends all of every day in the wards of those hospitals. Conferences on selected patients are held from 9 to 10 a. m. General and special surgical cases are discussed by members of the staff. The students take the case histories and make physical examinations and the usual laboratory examinations. They assist at some of the operations and do some of the surgical dressings. Those who are especially interested may apply and receive instruction in practical anesthesia. The students also

attend autopsies performed on the cases studied by them and are required to be present at the weekly pathological conference at which these cases are discussed. (See Pathology 4). 216 hours.

(Barnes Hospital, Dr. Graham and Staff;
Children's Hospital, Dr. Elman; City Hospital, Drs.
Heinbecker, Elman, Womack, Rowlette, Walton)

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

5. **ORTHOPEDIC OUTCLINIC.** Each student attends daily for two weeks. 24 hours. (Drs. Key, Stone, T. P. Brookes, Jostes, Thieme)

6. **GENITOURINARY OUTCLINIC.** Each student attends daily for two weeks. 24 hours. (Drs. Deakin, Patton, Wilson, Althaus, Feller, Kopp, Cutler)

ELECTIVE COURSES

7. *Neurological Surgery.* Eight lectures in the first quarter of the fourth year. The lectures comprise a review of the anatomy and physiology of the nervous system as applied to neurosurgery and a discussion of the principal conditions encountered in neurological surgery. (Drs. Sachs, Furlow)

10. *Postoperative Care.* Eight lectures and demonstrations in the fourth quarter of the fourth year. Both the normal and complicated postoperative developments are discussed. (Dr. Allen)

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

12. *Staff Meeting.* Approved students may attend, without credit, the weekly staff meeting, at which topics of interest, recent surgical pathological material, and current surgical literature are discussed.

13. *Tumor Clinic.* Approved students may attend, without credit, the weekly staff tumor clinic in the Barnes Hospital. (Drs. Copher, Womack)

14. *Surgical Pathology.* Approved senior students may elect to take additional work in surgical pathology. The credit received depends upon the amount of time and the quality of the work done. (Dr. Womack)

RADIOLOGY

PROFESSOR SHERWOOD MOORE.
 CONSULTING PHYSICIST HUGHES.
 ASSOCIATE PROFESSOR LARIMORE.
 PHYSICIST THORNTON.
 ASSISTANT PROFESSOR WENDELL SCOTT.
 INSTRUCTORS ZINK, ARNESON.
 ASSISTANT PHYSICIST LANGSDORF.
 ASSISTANTS BURTON, THOMAS RUSSELL.

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

THIRD YEAR

ELEMENTS OF RADIOLOGY. Two lectures to one-third the class at a time as a part of Med. 2. (Dr. Scott)

TISSUE CHANGES DUE TO RADIATION. One lecture to the class in surgical pathology (Surg. 3) and one lecture to the class in obstetrical and gynecological histology and pathology (Ob. and Gyn. 1b). (Dr. Arneson)

FOURTH YEAR

DIAGNOSIS (CHIEFLY RADIOLOGICAL) AND TREATMENT OF DISEASES OF THE GASTROINTESTINAL TRACT. Eleven lectures in connection with Med. 7b. (Dr. Larimore)

RADIOLOGICAL TREATMENT OF CANCER OF THE UTERUS. One lecture in course 2(d) in the department of Obstetrics and Gynecology. (Dr. Arneson)

ELECTIVE COURSE

Principles of Roentgenology. A course of lectures and demonstrations for fourth year students. Three one hour periods a week for four weeks. 12 hours.

(Drs. Moore, Scott, Zink)

OPHTHALMOLOGY

PROFESSORS LAWRENCE T. POST, SHAHAN, WIENER.
 ASSOCIATE PROFESSORS WILLIAM F. HARDY, JULIANELLE, WOODRUFF, M. HAYWARD POST.
 ASSISTANT PROFESSORS JACOBS, SCHWARTZ, LAMB, B. Y. ALVIS.
 INSTRUCTORS POOS, JAMES, HILDRETH, BEISBARTH, LANGE, CRAWFORD, SANDERS, CALHOUN, WORKMAN.
 LECTURER MASON.
 ASSISTANTS E. B. ALVIS, ROSENBAUM, JAMES H. BRYAN, HOW, HANSEN, ELLIS, MEISENBACH.

SECOND YEAR

OPHTHALMOSCOPY. Lectures and demonstrations are given as a part of the course in Physical Diagnosis. 6 hours. (See Medicine 1b).

(Drs. Lawrence Post, M. H. Post, Beisbarth)

THIRD YEAR

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

FOURTH YEAR

2. CLINICAL OPHTHALMOLOGY. Instruction in diagnosis and treatment of eye diseases is given to small sections of the class. Ten hours a week for 4 weeks. 40 hours.

(Drs. Lawrence Post, M. H. Post, Jacobs, Schwartz,
E. B. Alvis, Beisbarth, Lange, Sanders)

OTOLARYNGOLOGY

PROFESSOR EMERITUS L. W. DEAN.
PROFESSORS BUNCH, PROETZ.
ASSOCIATE PROFESSOR LYMAN.
ASSISTANT PROFESSORS ARBUCKLE, ALDEN, KELLEY, HANSEL, HOURN,
McMAHON, BIRSNER, COSTEN, WOLFF.
INSTRUCTORS CONE, VOTAW, GLICK, BOEMER.
ASSISTANTS HANSON, FREIMUTH, GAGE, POTTER, SCHERRER, STUTZMAN,
GUERDAN HARDY, LINTON, L. W. DEAN, JR., SMIT, SENTURIA, WILLIAM
T. K. BRYAN.
RESEARCH FELLOW LING.¹

THIRD YEAR

1. LARYNGOLOGY AND RHINOLOGY. Twenty-two lecture hours given during the third trimester. 22 hours.

(Drs. Dean, Goldstein, Bunch, Proetz, Lyman, Arbuckle,
McMahon, Hansel, Kelley, Alden, Birsner, Costen)

FOURTH YEAR

2. OTOLARYNGOLOGY. Clinical instruction is given to small sections of the class. Eight hours a week for 4 weeks. 32 hours.

(Drs. Dean, Bunch, Proetz, Lyman, Kelley, Votaw,
Boemer, Gage, Hardy, Smit, Scherrer)

OBSTETRICS AND GYNECOLOGY

PROFESSORS OTTO H. SCHWARZ, WILLARD M. ALLEN,² FREDERICK J. TAUSSIG, ROYSTON, NEWELL.
ASSOCIATE PROFESSOR T. KENNETH BROWN.
ASSISTANT PROFESSORS McNALLEY, O'KEEFE, PADDOCK, KREBS, ROBERT J. CROSSEN.
INSTRUCTORS SCHLOSSSTEIN, DRABKIN, WEGNER, HOBBS, LIESE, DUDLEY R. SMITH, SOULE, ARNESON, ROBLEE, MORRIN.
ASSISTANTS CANEPA, MYRON W. DAVIS, ARZT, SCRIVNER, O'NEILL, FRANCES H. STEWART, KLEINE, PATTON, WULFF, MAX, WASSERMAN, GIBSON, BORTNICK, HUBERT L. ALLEN, MORRISON, LAZAR, HAUPTMAN, HAYWARD, SIEBER, HUTTO.³

¹ Effective October 25, 1939.

² Effective January 1, 1940.

³ Effective October 1, 1939.

THIRD YEAR

During the third year there are four courses given in obstetrics and gynecology. The introductory lecture course in obstetrics is based upon assigned reading in a prescribed textbook. The entire subject of obstetrics is covered in this course. In the course of obstetrical and gynecological pathology, the normal anatomy, histology and physiology of the female generative organs are reviewed and all important pathological lesions are presented both grossly and microscopically. The work is carried out in the form of lectures, demonstrations of gross specimens and microscopic pathology. A complete series of photomicrographs in the form of lantern slides supplements the teaching of this course. Obstetrical and gynecological diagnosis is given in the afternoon course in the Clinics. The students are instructed in the methods of making complete obstetrical and gynecological examinations. Lectures in gynecology, similar to those in obstetrics, are supplemented by assigned reading in a prescribed textbook.

1. OBSTETRICS AND GYNECOLOGY.

(a) OBSTETRIC RECITATIONS AND DEMONSTRATIONS. One hour a week throughout the year. 33 hours.

(Drs. Schwarz, W. M. Allen)

(b) OBSTETRICAL AND GYNECOLOGICAL HISTOLOGY AND PATHOLOGY. Four hours a week (in sections of one-third of the class). 44 hours.

(Dr. Hobbs)

(c) CLINICAL LECTURES ON SELECTED GYNECOLOGICAL SUBJECTS. One hour a week during the second trimester. 11 hours.

(Drs. Schwarz, W. M. Allen)

(d) GYNECOLOGICAL AND OBSTETRICAL DIAGNOSIS (CLINIC). One sub-section (one-sixth of the class) works in the gynecological clinic. At the same time the other sub-section (one-sixth of the class) works in the pre-natal clinic. Two hours a week for eleven weeks (in sections of one-third of the class). 22 hours.

(Drs. Brown, Krebs, Smith, Wegner, Davis, Hobbs, Liese, Soule, Scrivner, Wulff, Gibson)

(e) CLINICAL AND PATHOLOGICAL CONFERENCES. (See Pathology 4).

FOURTH YEAR

During the fourth year the students are assigned to obstetrics and gynecology for four and two weeks, respectively. The work in obstetrics consists of clinical clerkships in the St.

Louis Maternity Hospital and the St. Louis City Hospital. During this time students are assigned to cases and are responsible for the records and laboratory work which each case requires. At least twelve obstetrical cases are required for each student. In addition, students are urged to volunteer for obstetrical work during the summer vacation between the third and fourth years, as the required number of cases cannot be obtained during the four weeks period. The service furnishes about 1600 cases annually, 1200 in the St. Louis Maternity Hospital and about 400 on the outclinic service. In addition, the St. Louis City Hospital furnishes about 1200 cases a year. On the gynecological service in Barnes Hospital, the students act as clinical clerks, attending two gynecological diagnostic clinics and two operative gynecological clinics each week. In the afternoon they are assigned to the gynecological division of the University Clinics, under constant supervision of instructors. The clinics on selected obstetrical and gynecological topics are given as a review of the more important phases of obstetrics and gynecology.

2. OBSTETRICS AND GYNECOLOGY.

(a) ATTENDANCE ON OBSTETRICAL CASES.

(Drs. Schwarz, Brown, Wegner, Hobbs, Soule)

(b) CLINICS ON SELECTED OBSTETRICAL AND GYNECOLOGICAL TOPICS. One hour a week during the first, second and third quarters. 24 hours.

(Drs. Schwarz, W. M. Allen, Royston, Newell)

(c) OBSTETRICAL WARD WORK. Sections composed of one-eighth of the class, for a period of four weeks.

(Drs. Schwarz, Royston, McNalley, Paddock,
Brown, Wegner)

(d) GYNECOLOGICAL WARD AND CLINIC WORK. Sections composed of one-sixteenth of the class work in the Gynecological Division of the Barnes Hospital and the Clinic for a period of two weeks.

(Drs. Schwarz, Taussig, Newell,
Royston, McNalley, O'Keefe, Paddock, Hobbs)

ELECTIVE COURSES

(a) *Obstetrical Clinic*. An elective course in which a small section of the class receives practical instruction in the prenatal clinic eight hours a week for four weeks. 32 hours. Other hours by arrangement. This work can also be taken in the summer months.

(Dr. D. R. Smith and Staff)

(b) Positions are available for students who wish to give their entire elective time to research work in obstetrics and gynecology. Each student selected for this work will be under the direct supervision of a member of the department.

THE EDWARD MALLINCKRODT DEPARTMENT OF PEDIATRICS

PROFESSORS HARTMANN, COOKE, VEEDER.

ASSOCIATE PROFESSORS THEODORE C. HEMPELMANN, McCULLOCH.

INSTRUCTORS BLEYER, PARK J. WHITE, ZENTAY, KUBITSCHKE, RUPE, BAIN, PERLEY, LAWRENCE GOLDMAN, ROHLFING, MAX DEUTCH, F. A. JACOBS, STANLEY HARRISON, JAUDON, LONDE, BLATTNER.

ASSISTANTS LONSWAY, BAUER, AFF, JONES, WACHTER, SAUNDERS, KLOK, SCHWARTZ, SCHWARTZMAN.

RESEARCH FELLOWS RUHOFF, BARNETT, ANDERSON, WAGENFUEHR.

DENTISTS MARTIN, HARRIS.

STUDENT ASSISTANT ERGANIAN.

The instruction during the third year is designed to introduce the subject of pediatrics to the student by a systematic course of lectures emphasizing particularly normal growth and development, infant nutrition and feeding, acute infectious diseases, and serious disturbances in water and mineral metabolism, and also to acquaint him with normal physical findings in infants and children, and methods of physical diagnosis.

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

THIRD YEAR

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

2. PEDIATRICS. A systematic lecture course in general pediatrics, including occasional clinical demonstrations. Two hours a week for three trimesters. 66 hours.

(Drs. Hartmann, Cooke)

FOURTH YEAR

3. PEDIATRIC WARD ROUNDS. Examination and discussion of selected cases in the wards of the St. Louis Children's Hospital and the St. Louis Isolation Hospital. Daily for four weeks for one-eighth of the class. 24 hours.

(Drs. Cooke, Bleyer, Goldman, Bain, Jaudon, Zentay)

4. PEDIATRIC CLINIC. Weekly amphitheatre demonstrations and discussions of selected cases from the hospital, for the whole class. 32 hours.

(Drs. Hartmann, Cooke, Veeder, McCulloch)

5. CLINICAL AND PATHOLOGICAL CONFERENCES. See Pathology 4. Approximately one-third of the course is devoted to pediatric cases.

6. CLINICAL CLERKSHIPS. For two hours each morning for two weeks, for one hour in the afternoon and for emergencies in the evening one-sixteenth of the class works in the wards of the hospital or attends special clinical or pathological conferences and demonstrations. For two hours four afternoons a week for two weeks the group works in the pediatric outpatient department, taking histories and making examinations of assigned cases under supervision of the staff physicians.

(Drs. Hartmann, Cooke, Blattner and Staff)

ELECTIVE COURSES

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

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

MILITARY SCIENCE AND TACTICS

ELI E. BROWN, M.D., Lieutenant Colonel, M. C., U. S. A.

Assistant Professor of Military Science and Tactics

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

(1) Basic Course—first and second years.

(2) Advanced Course—third and fourth years.

(a) Summer Training Camp—six weeks.

Enrollment in both the Basic and Advanced Courses is optional and does not obligate the student to any military duty except to complete the section of the course undertaken.

The Summer Camp is part of the Advanced Course. It may be attended after the second or the third year.

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

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

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

MISCELLANEOUS COURSES

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

(Mr. Crowdus)

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

(Dr. Virgil Loeb)

PHYSICAL THERAPEUTICS. Lectures and demonstrations of corrective physical exercise, massage, hydrotherapy, electrotherapy and heliotherapy. 8 hours.

(Dr. Ewerhardt)

PROFESSIONAL CONDUCT AND MEDICAL ECONOMICS. An elective course in which the following subjects are discussed: the young physician and his problems; group medicine and specialization; ethical relations between physicians; organized medicine; birth control; quackery, fads, and cults; medical finance; industrial and contract practice; "systems" of practice in other countries; health insurance plans. 8 hours.

(Dr. Park J. White)

POST-GRADUATE COURSES

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

OBSTETRICS AND GYNECOLOGY

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

OPHTHALMOLOGY

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

OTOLARYNGOLOGY

An eight-months' course in otolaryngology is offered each year beginning in September.

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

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

PEDIATRICS

A four-weeks' course in pediatrics is offered once each year, beginning in September. The object of the course is to give

practitioners a thorough grounding in the modern practice of pediatrics. The course is suitable for those doing general practice and for those specializing in pediatrics. For those desiring to enter the practice of pediatrics as a specialty, the course is designed to furnish a basis for further work.

ANATOMY

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

Pamphlets giving further information about these courses may be obtained on application to the Registrar of the School.

GENERAL SCHEDULES

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
 Schedule of First Year. September 26 - December 21, inclusive

1940-41

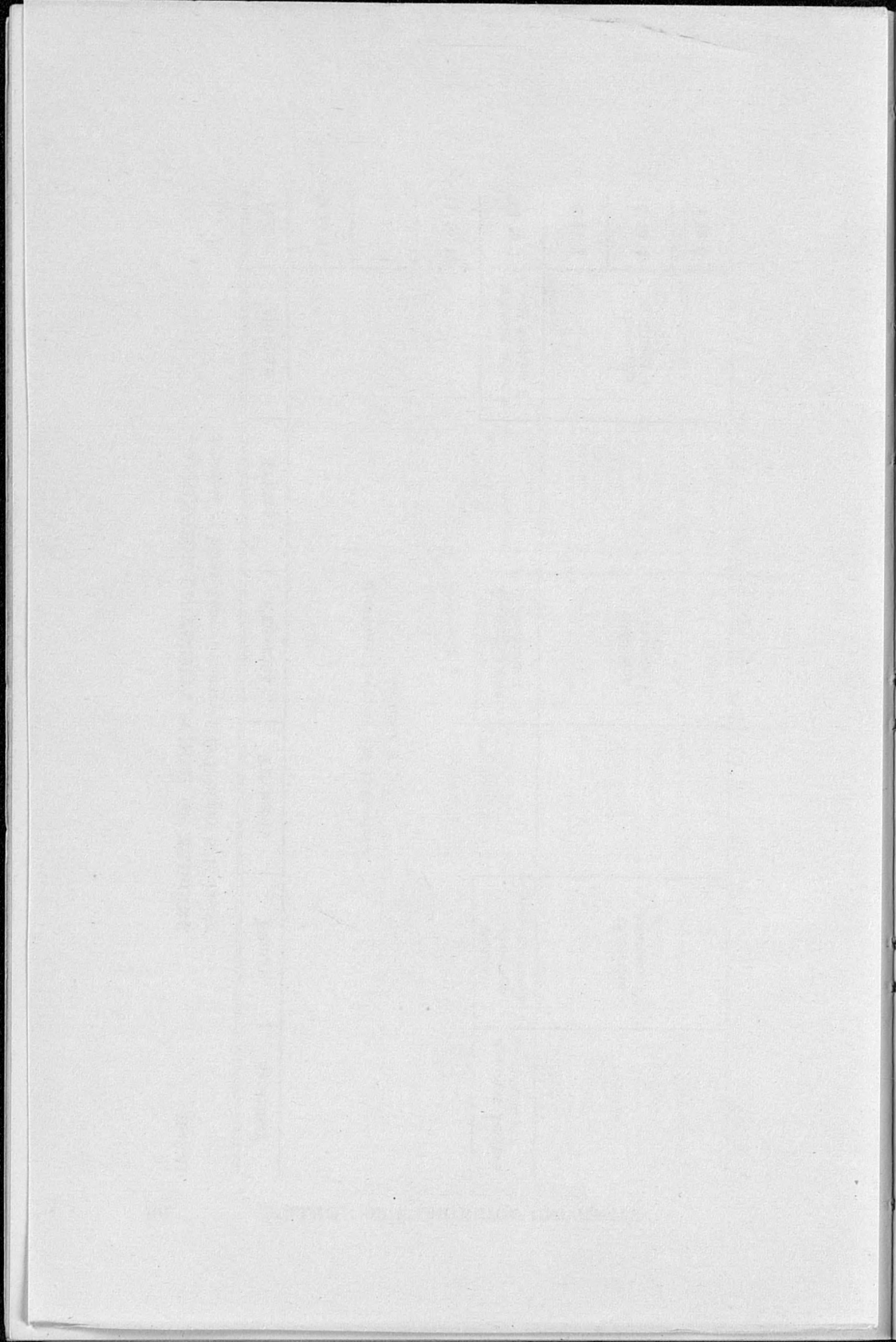
HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Histology Lectures and Laboratory Anatomy 2					Dissection Anatomy 1
10 to 11						
11 to 12						Anatomy Lecture Anatomy 1
12 to 1						
2 to 3	Dissection Anatomy 1	Military Science and Tactics 1	Dissection Anatomy 1		Medical Psychology Neuropsychiatry 1	Anatomy Lecture Anatomy 1
3 to 4						
4 to 5						

THE SCHOOL OF MEDICINE

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
 Schedule of First Year. January 6 to February 8, inclusive

1940-41

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Neurology Lectures and Laboratory Anatomy 3					
10 to 11						
11 to 12						
12 to 1	Military Science and Tactics 1		Anatomy Lecture Anatomy 1		Medical Psychology Neuropsychiatry 1	Anatomy Lecture Anatomy 1
2 to 3	Dissection Anatomy 1					
3 to 4						
4 to 5						



WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
 Schedule of First Year. January 6 to February 8, inclusive

1940-41

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Neurology Lectures and Laboratory Anatomy 3					
10 to 11						
11 to 12						
12 to 1	Military Science and Tactics 1		Anatomy Lecture Anatomy 1		Medical Psychology Neuropsychiatry 1	Anatomy Lecture Anatomy 1
2 to 3						
3 to 4	Dissection Anatomy 1		Dissection Anatomy 1		Dissection Anatomy 1	
4 to 5			Spec. Sec.			

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1940-41

Schedule of First Year. February 10 - June 6, inclusive

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Biological Chemistry Laboratory Chemistry 3	Biological Chemistry Lecture Chemistry 3	Biological Chemistry Lecture Chemistry 3	Biological Chemistry Lecture Chemistry 3	Biological Chem. Lecture Chemistry 3 ($\frac{1}{2}$ Class)	Physiology Lecture Physiology 2a
10 to 11		Anatomy Lecture Anatomy 1	Biological Chemistry Laboratory Chemistry 3	Biological Chemistry Laboratory Chemistry 3	Anatomy Lecture Anatomy 1	Biological Chemistry Lecture Chemistry 3
11 to 12		Physiology Lecture Physiology 2a			Physiology Lecture Physiology 2a	Biological Chemistry Laboratory Chemistry 3
12 to 1	Physiology Lecture Physiology 2a	Military Science and Tactics 1			Biological Chem. Lecture Chemistry 3 ($\frac{1}{2}$ Class)	Chemistry 3
2 to 3	Dissection Anatomy 1					
3 to 4			Dissection Anatomy 1		Dissection Anatomy 1	
4 to 5						

THE SCHOOL OF MEDICINE

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

1940-41

88

BULLETIN OF WASHINGTON UNIVERSITY

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Bacteriology Laboratory B. and I. 1	Bacteriology Lecture B. and I. 1	Bacteriology Laboratory B. and I. 1	Physiology Conference Physiology 2b	Bacteriology Laboratory B. and I. 1	Physiology Lecture Physiology 2a
10 to 11		Military Science and Tactics 1				Physiology Laboratory Physiology 2b
11 to 12		Bacteriology Recitation B. and I. 1				
12 to 1	Physiology Lecture Physiology 2a	Physiology Lecture Physiology 2a	Bacteriology Lecture B. and I. 1	Physiology Laboratory Physiology 2b	Physiology Lecture Physiology 2a	
2 to 3		Bacteriology Laboratory B. and I. 1		Physiology Laboratory Physiology 2b	Physiology Laboratory Physiology 2b	
3 to 4						
4 to 5						

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1940-41

Schedule of Second Year. Second Trimester.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pathology Pathology 1	Introductory Clinic Medicine 1a	Pathology Pathology 1	Pharmacology Lecture Pharmacology 1a	Pathology Pathology 1	Pharmacology Lecture Pharmacology 1a
10 to 11		Infection and Immunity Lecture B. and I. 2		Pharmacology Laboratory Pharmacology 1b		Introductory Clinic Medicine 1a
11 to 12		Pharmacology Lecture Pharmacology 1a				
12 to 1						
2 to 3	Pharmacology Lecture Pharmacology 1a	Pharmacology Laboratory Pharmacology 1b	Infection and Immunity Laboratory B. and I. 2	Military Science and Tactics 1		
3 to 4	Physical Diagnosis Medicine 1b			Physical Diagnosis Medicine 1b		
4 to 5						

THE SCHOOL OF MEDICINE

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

1940-41

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
9 to 10	Pathology Pathology 1	Introductory Clinic Medicine 1a	Pathology Pathology 1	Physical Diagnosis Medicine 1b	Pathology Pathology 1	Pathology Pathology 1	
10 to 11		Clinical Microscopy Medicine 1c					
11 to 12							
12 to 1							
2 to 3		Military Science and Tactics 1	Clinical Microscopy Medicine 1c	Clinical Microscopy Medicine 1c	Introductory Clinic Medicine 1a		
3 to 4		Introduction to Surgery Surgery 1			Surgery Clinic Surgery 1		Introduction to Surgery Surgery 1
4 to 5							

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
 Schedule of Third Year. First Trimester

1940-41

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pediatrics Clinical Confer. Pediatrics 2	Medicine Recitation Medicine 5	Pediatrics Clinical Confer. Pediatrics 2	Medicine Recitation Medicine 5	Obstetrics Recitation Ob. and Gyn. 1a	Neuropsychiatry Neurology 3a
10 to 11	Group A Medicine 2	Group A Medicine 2	Group A Medicine 2	Group A Medicine 2	Group A Medicine 2	Neuropathology Pathology 3
	Group B Surgery 2a	Group B Surgery 2a	Group B Surgery 2a	Group B Surgery 2a	Group B Surgery 2a	
11 to 12	Group C Ob. and Gyn. 1b	Group C $\frac{1}{2}$ Psychiatry 3b $\frac{1}{2}$ Pediatrics 1	Group C Ob. and Gyn. 1b	Group C $\frac{1}{2}$ Psychiatry 3b $\frac{1}{2}$ Pediatrics 1	Neuropsychiatry Psychiatry 3a	
12 to 1	Surgery Recitation Surgery 2b	Surgery Clinic Surgery 2e	Military Science and Tactics 2	Surgery Confer. Surgery 2f		Medicine Clinic Medicine 7a
2 to 3	Group C Ob. and Gyn. 1d	Gross Pathology Pathology 2	Surgical Pathology Surgery 3			
3 to 4						
4 to 5	Clinical and Pathological Conf. Pathology 4	Public Health 1	Public Health 1			

THE SCHOOL OF MEDICINE

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

1940-41

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pediatrics Clinical Confer. Pediatrics 2	Medicine Recitation Medicine 5	Pharmacology Lecture Pharmacology 1a	Medicine Recitation Medicine 5	Obstetrics Recitation Ob. and Gyn. 1a	Neuropsychiatry Neur. 3a
10 to 11	Group A Ob. and Gyn. 1b	Group A $\frac{1}{2}$ Psychiatry 3b $\frac{1}{2}$ Pediatrics 1	Group A Ob. and Gyn. 1b	Group A $\frac{1}{2}$ Psychiatry 3b $\frac{1}{2}$ Pediatrics 1	Group B Medicine 2	Pediatrics Clinical Confer. Pediatrics 2
11 to 12	Group B Medicine 2	Group B Medicine 2	Group B Medicine 2	Group B Medicine 2	Group C Surgery 2a	Therapeutics Medicine 3
	Group C Surgery 2a	Group C Surgery 2a	Group C Surgery 2a	Group C Surgery 2a		
12 to 1	Surgery Recitation Surgery 2b	Surgery Clinic Surgery 2e	Dietetics Medicine 4	Surgery Conference Surgery 2f	Pharmacology Lecture Pharmacology 1a	Medicine Clinic Medicine 7a
2 to 3	Group A Ob. and Gyn. 1d		Surgical Pathology Surgery 3	Gynecology Lecture Ob. and Gyn. 1c		
3 to 4		Military Science and Tactics 2		Public Health 1		
4 to 5	Clinical and Path. Conference Pathology 4	Anatomy 4	Public Health 1	Anatomy 4		

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1940-41

Schedule of Third Year. Third Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pediatrics Clinical Confer. Pediatrics 2	Medicine Recitation Medicine 5	Laryn. & Rhin. Lecture Otolaryn. 1	Medicine Recitation Medicine 5	Obstetrics Recitation Ob. and Gyn. 1a	Pediatrics Clinical Confer. Pediatrics 2
10 to 11	Group A Surgery 2a	Group A Surgery 2a	Group A Surgery 2a	Group A Surgery 2a	Group A Surgery 2a	Genitourinary Surgery Lecture Surgery 2g
11 to 12	Group B Ob. and Gyn. 1b	Group B $\frac{1}{2}$ Psychiatry 3b $\frac{1}{2}$ Pediatrics 1	Group B Ob. and Gyn. 1b	Group B $\frac{1}{2}$ Psychiatry 3b $\frac{1}{2}$ Pediatrics 1	Group C Medicine 2	Military Science and Tactics 2
12 to 1	Group C Medicine 2	Group C Medicine 2	Group C Medicine 2	Group C Medicine 2	Neuropsychiatry Psychiatry 3c	Medicine Clinic Medicine 7a
2 to 3	Fractures Surgery 2c	Surgery Clinic Surgery 2e	Dietetics Medicine 4	Surgery Conference Surgery 2f		
3 to 4	Group B Ob. and Gyn. 1d	Laryn. & Rhin. Lecture Otolaryn. 1	Operative Surgery	Dermatology Lecture Dermatology 1	Surgical Pathology	
4 to 5		Stomatology	Surgery 2d 2 Sections $\frac{1}{2}$ trimester each	Ophthalmology Lecture Ophthal. 1	Surgery 3	
	Clinical and Pathological Conference Pathology 4				Medical Jurisprudence	

THE SCHOOL OF MEDICINE

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
 Schedule of Fourth Year: Group A, First Quarter; Group B, Second Quarter;
 Group C, Third Quarter; Group D, Fourth Quarter

1940-41

94

BULLETIN OF WASHINGTON UNIVERSITY

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 12	Medicine 6 and Neuropsychiatry 4c Ward Work Section I—City Hospital Section II—Barnes Hospital					
12 to 1	Neur. and Psych. Clinic Neuropsych. 4a	Surgery Clinic Surgery 4b	Pediatrics Clinics Pediatrics 4	Medicine Clinic Medicine 7b	Ob. & Gyn. 2b Lecture I, II, III Quarters	Medicine Clinic Medicine 7a
2 to 4	Section I—Ophthalmology 2 Section II—Barnes Hospital Wards					
4 to 5	Clinical and Pathological Conference Pathology 4 I, II, III Quarters					

Note: Sections change at the middle of the quarter.
 Military Science and Tactics class is held from 8 to 9 a. m. on Thursdays.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1940-41

Schedule of Fourth Year: Group B, First Quarter; Group C, Second Quarter;
Group D, Third Quarter; Group A, Fourth Quarter

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 12	Section I—Medical Clinics (Gen. Med., Heart, Chest) and Neuropsychiatric Clinic Section II—Surgical Clinics (G. U., Orthopedic)					
12 to 1	Neuro. and Psych. Clinic Neuropsych. 4a	Surgery Clinic Surgery 4b	Pediatrics Clinic Pediatrics 4	Medicine Clinic Medicine 7b	Ob. and Gyn. 2b Lecture I, II, III Quarters	Medicine Clinic Medicine 7a
2 to 4	Electives					
4 to 5	Clinical and Pathological Conference Pathology 4 I, II, III Quarters					

Note: Sections change at the middle of the quarter.
Military Science and Tactics class is held from 8 to 9 a. m. on Thursdays.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
 Schedule of Fourth Year: Group C, First Quarter; Group D, Second Quarter;
 Group A, Third Quarter; Group B, Fourth Quarter

1940-41

96

BULLETIN OF WASHINGTON UNIVERSITY

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 12	Surgery 4a—Ward Work Section I—City Hospital Section II—Barnes and St. Louis Children's Hospitals					
12 to 1	Neur. and Psych. Clinic Neuropsych. 4a	Surgery Clinic Surgery 4b	Pediatrics Clinic Pediatrics 4	Medicine Clinic Medicine 7b	Ob. and Gyn. 2b Lecture I, II, III Quarters	Medicine Clinic Medicine 7a
2 to 4	Section I—Otolaryngology 2 Section II—Barnes Hospital Wards					
4 to 5	Clinical and Pathological Conference Pathology 4 I, II, III Quarters					

Note: Sections change at the middle of the quarter.
 Military Science and Tactics class is held from 8 to 9 a. m. on Thursdays.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1940-41

Schedule of Fourth Year: Group D, First Quarter; Group A, Second Quarter;
Group B, Third Quarter; Group C, Fourth Quarter

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 12	Section I—Obstetrics 2c, Ward Work St. Louis Maternity Hospital					
12 to 1	Neur. and Psych. Clinic Neuropsych. 4a	Surgery Clinic Surgery 4b	Pediatrics Clinic Pediatrics 4	Medicine Clinic Medicine 7b	Ob. and Gyn. 2b Lecture I, II, III Quarters	Medicine Clinic Medicine 7a
2 to 4	Section I—Obstetrics 2c, Ward Work St. Louis Maternity Hospital					
4 to 5	Clinical and Pathological Conference Pathology 4 I, II, III Quarters					

Note: This section changes with the Pediatrics-Gynecology section at the middle of the quarter.
Military Science and Tactics class is held from 8 to 9 a. m. on Thursdays.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
 Schedule of Fourth Year: Group D, First Quarter; Group A, Second Quarter;
 Group B, Third Quarter; Group C, Fourth Quarter

1940-41

98

BULLETIN OF WASHINGTON UNIVERSITY

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Section II—Pediatrics 3, Ward Work St. Louis Children's Hospital					
10 to 12	Section II—Gyn. Ward Work Barnes Hospital (2 weeks) Section II—Pediatrics 6, Clinical Clerkships St. Louis Children's Hospital (2 weeks)					
12 to 1	Neur. and Psych. Clinic Neuropsych. 4a	Surgery Clinic Surgery 4b	Pediatrics Clinic Pediatrics 4	Medicine Clinic Medicine 7b	Ob. and Gyn. 2b Lecture I, II, III Quarters	Medicine Clinic Medicine 7a
2 to 4	Section II—Gyn. Clinic (2 weeks) Section II—Pediatrics Clinic (2 weeks)					
4 to 5	Clinical and Pathological Conference Pathology 4 I, II, III Quarters					

Note: This section changes with the Obstetrics section at the middle of the quarter.

DEGREES CONFERRED AT COMMENCEMENT

June 6, 1939

DOCTOR OF MEDICINE

NAME — INTERNESHIP

- Ackerly, Roscoe Hope, B.S.—Colorado General Hospital, Denver, Colorado
 Ahrens, John Heideman, A.B.—Department of Pathology, Washington University
 School of Medicine
 Anderson, Charles Roy, A.B.—Fellowship in St. Louis Children's Hospital
 Barham, Berlin Francis, B.S.—Watts Hospital, Durham, North Carolina
 Basham, George Leo, A.B.—Charity Hospital of Louisiana, New Orleans, Louisiana
 Baumgarten, Walter, Jr., A.B.—St. Luke's Hospital, St. Louis, Missouri
 Baur, Alfred Karl, A.B.—Barnes Hospital, St. Louis, Missouri
 Beasley, Louis Kenneth, A.B.—St. Luke's Hospital, St. Louis, Missouri
 Berger, Irving Lester, A.B.—Cleveland City Hospital, Cleveland, Ohio
 Berman, Benjamin Byral, A.B.—St. Louis City Hospital, St. Louis, Missouri
 Bernard, William Reisch, B.S.—De Paul Hospital, St. Louis, Missouri
 Bierman, Howard Richard, B.S.—Barnes Hospital, St. Louis, Missouri
 Blair, Vilray Papin, Jr.—Barnes Hospital, St. Louis, Missouri
 Blum, Leo J., Jr., B.S.—James Jackson Memorial Hospital, Miami, Florida
 Bohne, Arthur Waite, A.B.—St. Louis City Hospital, St. Louis, Missouri
 Borenstine, Joseph (cum laude)—St. Louis City Hospital, St. Louis, Missouri
 Boyers, Sidney Steven, B.S.—North Hudson Hospital, Weehawken, New Jersey
 Brakel, Carl Arthur—Albany Hospital, Albany, New York
 Brockbank, Mark Joseph, A.B.—St. Mary's Group of Hospitals, St. Louis, Missouri
 Brown, Wilson Gordon, A.B.—Department of Pathology, Washington University
 School of Medicine
 Burbidge, Earl LeRoy, B.S.—St. Louis City Hospital, St. Louis, Missouri
 Campbell, Harry Bryant, A.B., B.S. (cum laude)—Union Memorial Hospital,
 Baltimore, Maryland
 Canepa, Edward Gaten—St. Louis City Hospital, St. Louis, Missouri
 Cockett, Patrick Mormon, Jr., B.S.—St. Louis City Hospital, St. Louis, Missouri
 Corgill, Donald Alton, A.B.—Henry Ford Hospital, Detroit, Michigan
 Cron, Heinz Edward—De Paul Hospital, St. Louis, Missouri
 Crutcher, Luke Fain, Jr.—Los Angeles County General Hospital, Los Angeles,
 California
 Dameron, Edward Oscar, B.S.—Missouri Baptist Hospital, St. Louis, Missouri
 Dix, John Willoughby, B.S.—St. Luke's Hospital, St. Louis, Missouri
 Dodds, Donald Clifford, A.B.—Alameda County Hospital, Oakland, California
 Douglas, Paul Lowell, A.B., B.S.—Ohio Valley General Hospital, Wheeling, West
 Virginia
 Douglas, Thomas Harrelson, Jr., A.B., B.S.—St. Joseph Hospital, Kansas City,
 Missouri
 Eckert, Charles Leonard (cum laude)—Barnes Hospital, St. Louis, Missouri
 Elsworth, John Nelson, A.B., B.S.—Iowa Methodist Hospital, Des Moines, Iowa
 Epstein, Carl Charles, A.B.—St. Louis City Hospital, St. Louis, Missouri
 Fleming, Ruth, B.S.—Children's Hospital for Women and Children, San Fran-
 cisco, California
 Foseid, Oscar Fritjoff, A.B.—Ancker Hospital, St. Paul, Minnesota
 Foster, Miles Everett, Jr., A.B., B.S.—George F. Geisinger Memorial Hospital,
 Danville, Pennsylvania
 Fox, Leon Julius, B.S.—Jewish Hospital of St. Louis, St. Louis, Missouri
 Fraser, George Frederick, A.B.—St. Louis City Hospital, St. Louis, Missouri
 Fraser, Richard Stanton, A.B., B.S.—St. John's Hospital, St. Louis, Missouri
 Geppert, Leo Joseph, A.B., A.M. (cum laude)—St. Louis Children's Hospital, St.
 Louis, Missouri
 Graham, John Glenwood, Jr., A.B.—St. Louis City Hospital, St. Louis, Missouri
 Greeley, Robert Hiram, A.B.—Research Hospital, Kansas City, Missouri
 Hall, John Randolph, Jr., A.B.—St. Louis City Hospital, St. Louis, Missouri
 Hansen, Phil, A.B.—Cottage Hospital, Santa Barbara, California
 Hardaway, Robert Morris, III, A.B. (cum laude)—New York Hospital, New
 York, New York
 Harrell, Julius Grissom—St. Luke's Hospital, St. Louis, Missouri
 Helm, John Edmund, A.B.—St. Louis City Hospital, St. Louis, Missouri
 Hess, George J., A.B.—St. Louis City Hospital, St. Louis, Missouri
 Hildebrand, William Bennett, B.S.—Minneapolis General Hospital, Minneapolis,
 Minnesota
 Hoover, Robert Arlie, A.B.—St. Louis City Hospital, St. Louis, Missouri
 Inderlied, Herman Frederick (cum laude)—Barnes Hospital, St. Louis, Missouri
 Ingram, Margaret Annand, B.S.—Montreal Children's Hospital, Montreal, Canada
 Jacobson, Leonard Harold, A.B., B.S.—St. Louis City Hospital, St. Louis, Mis-
 souri
 Johnston, Peter Rich, B.S.—St. Louis County Hospital, Clayton, Missouri
 Jones, Sam, A.B.—Hillman Hospital, Birmingham, Alabama

- Jordan, Fred Covington, Jr., B.S.—St. Louis City Hospital, St. Louis, Missouri
 Keys, Edgar Hayden, Jr., A.B.—St. Luke's Hospital, St. Louis, Missouri
 Kuhlmann, Raymond Frank, A.B.—University Hospitals, Minneapolis, Minnesota
 Lamar, Robert Frederick, A.B.—Kansas City General Hospital, Kansas City, Missouri
 Latham, Kenyon Stuart, A.B.—Deaconess Hospital, St. Louis, Missouri
 Maxwell, Reuben Jordan, B.S.—St. Louis City Hospital, St. Louis, Missouri
 McElroy, West Glover, B.S.—King County Hospital, Seattle, Washington
 McMahon, John Robert, B.S.—General Hospital of Fresno County, Fresno, California
 Melick, William Frank—St. Luke's Hospital, St. Louis, Missouri
 Milder, Benjamin—Jewish Hospital of St. Louis, St. Louis, Missouri
 Mullen, Aloysius John, B.S.—St. Francis Hospital, Hartford, Connecticut
 Neubauer, Darwin William, A.B. (cum laude)—University of Virginia, University, Virginia
 Nuttall, Leonard Wilkins, A.B.—St. Louis City Hospital, St. Louis, Missouri
 Passanante, Bartholomew Michael, A.B.—St. Louis County Hospital, Clayton, Missouri
 Proud, Gideon O'Neil, A.B.—St. Luke's Hospital, Kansas City, Missouri
 Reinhard, Edward Humphrey, A.B. (cum laude)—New York Hospital, New York, New York
 Ritter, Morton David, A.B.—Atlantic City Hospital, Atlantic City, New Jersey
 Robinson, Donald Wade, A.B., B.S.—St. Louis City Hospital, St. Louis, Missouri
 Roper, Stanley Dayton, A.B., B.S.—St. Louis City Hospital, St. Louis, Missouri
 Rossow, Russell Julius, B.S.—St. Louis County Hospital, Clayton, Missouri
 Senne, Herbert Carl, A.B., B.S.—United States Marine Hospital, Seattle, Washington
 Shank, Robert Ely, A.B. (cum laude)—Barnes Hospital, St. Louis, Missouri
 Skinner, John Thomas, A.B., B.S.—St. Joseph Hospital, Kansas City, Missouri
 Slusser, Gerald Adelbert, B.Ed., B.S.—Barnes Hospital, St. Louis, Missouri
 Smith, Hugh Reinhardt, Jr., A.B.—Lutheran Hospital, St. Louis, Missouri
 Starkloff, Gene Baldwin—Barnes Hospital, St. Louis, Missouri
 Thoma, John Walter Richard—Deaconess Hospital, St. Louis, Missouri
 Tigert, Allen Humphrey, B.S.—St. Louis City Hospital, St. Louis, Missouri
 Towers, Orville White, B.S.—Deaconess Hospital, St. Louis, Missouri
 Van Deventer, James Kendall, A.B.—St. Louis City Hospital, St. Louis, Missouri (1938-39)
 Wallace, Samuel Henderson, Jr., A.B.—St. Louis City Hospital, St. Louis, Missouri
 Weaver, Jerome Anderson, A.B.—Charity Hospital of Louisiana, New Orleans, Louisiana
 Welch, Arnold DeMerritt, B.S., M.S., Ph.D. (cum laude)—Instructor, Department of Pharmacology, Washington University School of Medicine
 White, Charles Ormond—St. Luke's Hospital, St. Louis, Missouri
 Whitfield, Frederick Stewart, Jr., A.B.—Charity Hospital of Louisiana, New Orleans, Louisiana
 Woll, Maurice, A.B.—St. Louis City Hospital, St. Louis, Missouri
 Zander, Ernst (cum laude)—Barnes Hospital, St. Louis, Missouri
 Zillgitt, George Henry, A.B., B.S.—Deaconess Hospital, St. Louis, Missouri
 Total, 95.

BACHELOR OF SCIENCE IN MEDICAL SCIENCE

NAME — ADDRESS

- Bierman, Howard Richard—Newark, New Jersey
 Fox, Leon Julius—St. Joseph, Missouri
 Slusser, Gerald Adelbert, B.Ed.—Villa Grove, Illinois
 Total, 3.

PRIZES AWARDED AT COMMENCEMENT

June 6, 1939

GILL PRIZE IN ANATOMY
Charles Barber Mueller, A.B.

GILL PRIZE IN PEDIATRICS
Charles Roy Anderson, A.B.

ALPHA OMEGA ALPHA PRIZE
Darwin William Neubauer, A.B.

ALUMNI SCHOLARSHIPS

Frances Marshall Love, A.B.	Earl Wilbur Sutherland, Jr., B.S.
Llewellyn Sale, Jr., A.B.	Martin Sanford Withers, A.B.

JACKSON JOHNSON SCHOLARS — 1939-40

Roy Elmer Ahrens, Jr., A.B.	Allyn Jay McDowell, B.S.
William Morris Anderson, B.S.	Kent McQueen, B.S.
Parker Reynolds Beamer, A.B., M.S.	Charles Barber Mueller, A.B.
Grace Elizabeth Bergner, A.B.	James Allan Read, A.B.
Frank A. Brown, Jr., A.B.	William George Reese, B.S., M.S.
Edward Hardin Dunn, A.B.	Ernest Tuttle Rouse, B.S.
Charles M. Huguley, Jr., A.B.	Philip T. Shahan, A.B.
Gordon Sparks Letterman, A.B.	Vergil Nelson Slee, A.B.
Frances Marshall Love, A.B.	Gordon Musgrove Todd, B.S.
	Martin Sanford Withers, A.B.

ROSTER OF STUDENTS

PHYSICIANS ATTENDING GRADUATE COURSES BETWEEN
JANUARY 1 AND DECEMBER 31, 1939

Anderson, George H., M.D.	Otolaryngology	Cedar Rapids, Iowa
Bowles, Herbert Epperson, M.D.	Obstetrics and Gynecology	Honolulu, T. H.
Brooks, Clyde M., M.D.	Otolaryngology	Carbondale, Illinois
Cello, Lewis W., M.D.	Obstetrics and Gynecology	Carrollton, Ohio
Clothier, William Lewis, M.D.	Ophthalmology	Pocatello, Idaho
Cutler, Harold Masha, M.D.	Otolaryngology	Old Town, Maine
Deems, Myers Bowman, M.D.	Otolaryngology	Huntington, Indiana
Diehl, William Harold, M.D.	Otolaryngology	Lebanon, Pennsylvania
Dunham, Tom Henry, M.D.	Otolaryngology	Portland, Oregon
Fredberg, Clifford Walter	Obstetrics and Gynecology	Lubbock, Texas
Haddon, Joseph E., M.D.	Obstetrics and Gynecology	Bremerton, Wash.
Henson, Lafayette Leonard, M.D.	Obstetrics and Gynecology	Bunker, Missouri
Hatzel, Clarence Charles, Jr., M.D.	Otolaryngology	Ogden, Utah
Hildebrand, Roy Dallas, M.D.	Otolaryngology	Newcomerstown, Ohio
Hoernschmeyer, Joseph L., M.D.	Otolaryngology	Granite City, Illinois
Jordan, Raymond Ellsworth, M.D.	Otolaryngology	Pittsburgh, Pennsylvania
Kulesher, Henry Thomas, M.D.	Otolaryngology	Washington, D. C.
Liebenberg, Henry Schoepf, M.D.	Ophthalmology	Madison, Wisconsin
McHenry, DeArmond John, M.D.	Otolaryngology	Benton, Pennsylvania
McKenzie, Rodney Jones, M.D.	Otolaryngology	Cincinnati, Ohio
McLaughlin, James R., M.D.	Otolaryngology	Burlington, Indiana
Mills, John Francis, M.D.	Ophthalmology	Wabash, Indiana
Moffitt, Lauri Wakefield, M.D.	Otolaryngology	Benson, Arizona
Muirhead, Robert Mowatt, M.D.	Otolaryngology	St. Louis, Missouri
Nantz, Frank A., M.D.	Ophthalmology	Cincinnati, Ohio
Neher, C. Kendal, M.D.	Otolaryngology	North Manchester, Indiana
Newell, Merl August, M.D.	Obstetrics and Gynecology	Clintonville, Pa.
Nunn, Joshua Hugh, M.D.	Otolaryngology	Ripley, Tennessee
Olsen, Arthur Roy, M.D.	Otolaryngology	Astoria, Oregon
Peterson, Roy LaVern, M.D.	Otolaryngology	Oshkosh, Nebraska
Reynolds, Garland Alexander, M.D.	Otolaryngology	Cape Girardeau, Missouri
Rodenberg, Elmer Julius, M.D.	Otolaryngology	Cincinnati, Ohio
Saunders, Leon S., M.D.	Otolaryngology	Roosevelt, Utah
Sherman, Allen, M.D.	Otolaryngology	San Francisco, California
Singleton, Walter J., M.D.	Otolaryngology	La Crosse, Kansas
Smith, Rodger Browning, M.D.	Otolaryngology	Pyongyang, Chosen, Japan
Spalding, Maurice Acobert, M.D.	Obstetrics and Gynecology	Indianapolis, Ind.
Strickland, Leonard Newman, M.D.	Obstetrics and Gynecology	Swandale, W. Va.
Teixler, Victor Adolph, M.D.	Ophthalmology	Indianapolis, Indiana
Tucker, Charles Albert, M.D.	Otolaryngology	Hartford, Connecticut
Waggoner, Roy Estis, M.D.	Obstetrics and Gynecology	Stillwater, Okla.
Wickstrom, Otto William, M.D.	Otolaryngology	Stilesville, Indiana
Williams, Elizabeth Coyle, M.D.	Ophthalmology	Dallas, Texas
Williams, Guy H., M.D.	Otolaryngology	Norman, Oklahoma
		Total, 44.

FOURTH YEAR CLASS

Ackerman, Albert Austin, A.B., Washington Univ., '36—St. Louis, Mo.
Adams, George Wilburn, A.B., Univ. of Ala., '38—Guntersville, Ala.
Anschuetz, Robert Ralph—Kansas City, Mo.
Barton, Wesley Austell, B.S., Univ. of Idaho, '24—St. Louis, Mo.
Biggs, Fred Joseph, Jr., A.B., Univ. of Mo., '36, B.S., Univ. of Mo., '38—Neelyville, Mo.
Bishop, Marion Dale—Hazelton, Kans.
Bottom, Donald Stewart, A.B., Washington Univ., '32—St. Louis, Mo.
Bowen, Mary Elizabeth, A.B., Washington Univ., '36—St. Louis, Mo.
Brown, Seymour—St. Louis, Mo.
Buck, Robert Ervin, B.S., S. Dak. State Coll., '35; B.S., Univ. of S. Dak., '38—Wessington Springs, S. Dak.
Budke, Harold Ammon, A.B., Washington Univ., '36—St. Louis, Mo.
Buehler, Carl Theodore, Jr., A.B., Westminster Coll., '36—Eldon, Mo.
Burns, Francis Ramsey, A.B., Univ. of Ala., '36—Russellville, Ala.
Cayce, Lea Farrar, A.B., Vanderbilt Univ., '36—Nashville, Tenn.
Clarke, Harvel Butler, A.B., Southwest Mo. State Teachers' Coll., '28; A.B., Univ. of Mo., '33—St. Louis, Mo.
Crider, Russell Jackson—Dixon, Mo.
Cross, Roland Robert, Jr., A.B., Washington Univ., '36—Dahlgren, Ill.
Crowell, Thomas Worth, A.B., Univ. of N. C., '35—Newton, N. C.
Curtis, William Shepley, A.B., Dartmouth Coll., '36—Webster Groves, Mo.
Davis, Frank Luther, A.B., Washington Univ., '36—St. Louis, Mo.
Delano, James Greason, A.B., Washington Univ., '36—St. Louis, Mo.

- Dominick, Thomas Boyd, A.B., Univ. of Ala., '36—Tuscaloosa, Ala.
 Dowling, Judson Davie, Jr., A.B., Univ. of Ala., '36—Birmingham, Ala.
 Edwards, David Russell, A.B., Univ. of Mo., '37; B.S., Univ. of Mo., '38—Jefferson City, Mo.
 Esslinger, Arthur Thomas John—St. Louis, Mo.
 Fernandez, Leabert Roberts, A.B., Univ. of Utah, '36—Honolulu, T. H.
 Fleming, Albert Edward, A.B., Fresno State Teachers Coll., '36—Sanger, Calif.
 Foerster, James Motz, A.B., Washington Univ., '36—St. Louis, Mo.
 Friedman, Henry Tauber, A.B., Washington Univ., '36—St. Louis, Mo.
 Gallagher, John Erwin, B.S., Univ. of Toledo, '36—Rossford, Ohio
 Galt, Charles E., Jr., A.B., Westminster Coll., '36—Ferguson, Mo.
 Garrett, Robert Lowell, A.B., Univ. of Calif., '35—Oakland, Calif.
 Gillette, Perry Charles, A.B., Univ. of Utah, '37—Tovele, Utah
 Goerger, Verne Frederick, A.B., Washington Univ., '36—Webster Groves, Mo.
 Goldring, David, A.B., Washington Univ., '36—St. Louis, Mo.
 Gottschalk, Roger—Jefferson City, Mo.
 Greaves, Fern Glenna Harrington, A.B., Univ. of Calif., '33—St. Louis, Mo.
 Gregory, Kendall Decatur—Decatur, Ill.
 Grindell, George Alfred, B.S., Univ. of Wis., '38—Platteville, Wis.
 Growdon, James Harold—Joplin, Mo.
 Grunow, Otto Henry, A.B., Univ. of Calif., '36—Redding, Calif.
 Guggenheim, Paul, A.B., Washington Univ., '36—Los Angeles, Calif.
 Harris, Joe Bryne, A.B., Univ. of Tex., '36—Midlothian, Tex.
 Hirst, Russell Nelson, B.S., Utah State Agri. Coll., '36—Logan, Utah
 Huntington, Margaret Orr, A.B., Swarthmore Coll., '36—St. Louis, Mo.
 Iknayan, Herbert Aram, A.B., Johns Hopkins Univ., '30—St. Louis, Mo.
 Johnson, Charles Henry, A.B., Southwest Mo. State Teachers Coll., '35; B.S., Univ. of Mo., '38—St. Louis, Mo.
 Johnson, Mary Bear, B.S., Univ. of Mo., '38—St. Louis, Mo.
 Johnson, Robert Hall, B.S., Wash. State Coll., '36—Spokane, Wash.
 Jolly, Benjamin Newton, A.B., Univ. of Mo., '37; B.S., Univ. of Mo., '38—St. Charles, Mo.
 Kallenbach, Glen Parnell, A.B., Univ. of Mo., '38; B.S., Univ. of Mo., '38—Tusculumbia, Mo.
 Kerr, David Nafe, A.B., Univ. of Colo., '36—Boulder, Colo.
 Kettenbach, Floralou, B.S., Univ. of Ariz., '36—Tucson, Ariz.
 Kingsley, Sumner Brooks, II, A.B., Cornell Univ., '34; B.S., Univ. of S. Dak., '38—Rome, N. Y.
 Kinman, Lindell Merle, B.S., Univ. of Notre Dame, '36—Jonesboro, Ark.
 Kitchen, Burton Eveland, A.B., Stanford Univ., '35; M.A., Stanford Univ., '36—Watsonville, Calif.
 Koch, Robert Eugene, A.B., Washington Univ., '36—Clayton, Mo.
 Landau, Richard Louis—St. Louis, Mo.
 Lindley, Emmett Herbert, A.B., Northwest Mo. State Teachers Coll., '36—Moberly, Mo.
 Long, Thomas Sparrow, B.S., Univ. of N. C., '37—Washington, N. C.
 Love, William Douglas, B.S., St. Louis Univ., '35—Vancouver, B. C.
 Macdonald, William Charles, B.S., Univ. of Notre Dame, '36—St. Louis, Mo.
 Mann, James, A.B., Univ. of Ill., '35—Paterson, N. J.
 McCullough, Jerome Jesse, A.B., Univ. of Mo., '36; B.S., Univ. of Mo., '38—Columbia, Mo.
 McFayden, Mary Catherine, A.B., Washington Univ., '36—Clayton, Mo.
 Merrill, Robert Lowe, B.S., Utah State Agri. Coll., '35—Logan, Utah
 Mira, Joseph John, A.B., Univ. of Rochester, '36—Rochester, N. Y.
 Moore, Gordon Fairle, B.S., Wilmington Coll., '30; M.S., Ohio State Univ., '32—Rarden, Ohio
 Obermeyer, Charles George, A.B., James Millikin Univ., '36—Decatur, Ill.
 Park, Oakley Knox, A.B., Univ. of Ala., '36—Tuscaloosa, Ala.
 Pearce, Lee James, A.B., Univ. of Ill., '30—Eldorado, Ill.
 Read, William Tolbert—Coffeyville, Kans.
 Rindskopf, Wallace, Jr.—University City, Mo.
 Robertson, Howard Thomas—Concordia, Kans.
 Robertson, James Hartford, B.S., Drury Coll., '36—Springfield, Mo.
 Robinson, Leo Davis, A.B., Univ. of Kans., '36—Jola, Kans.
 Rowland, Willard Daniel, A.B., Washington Univ., '36—Greenville, Ill.
 Sachar, Leo Aaron, A.B., Washington Univ., '36—St. Louis, Mo.
 Sale, Llewellyn, Jr., A.B., Yale Coll., '36—St. Louis, Mo.
 Savory, John Harmsworth—Atchison, Kans.
 Sawyer, Harry William, Jr., A.B., Univ. of Nev., '36—Fallon, Nev.
 Schoen, Frederic L., A.B., Washington Univ., '36—St. Louis, Mo.
 Skinner, Ben Smith, B.S., Univ. of N. C., '37—Durham, N. C.
 Skinner, John Spalding—Webster Groves, Mo.
 Slind, Ole, Jr., B.S., State Coll. of Wash., '38—La Crosse, Wash.
 Smith, Joseph James—Shattuck, Okla.
 Smith, Robert Moore, A.B., Washington Univ., '36—Webster Groves, Mo.
 Strauchen, Gilbert William, A.B., Univ. of Ala., '36—Tuscaloosa, Ala.

Strehlman, Benjamin George, A.B., Central Coll., '25; M.A., Univ. of Mo., '32—Bland, Mo.
 Summers, Joseph Stewart, Jr., A.B., Univ. of Mo., '37; B.S., Univ. of Mo., '38—Jefferson City, Mo.
 Tomlinson, William Loren, Jr., A.B., Southeast Mo. State Teachers Coll., '35—Fornfelt, Mo.
 Wall, Walton B., Jr., B.S., Univ. of Fla., '36—Fayetteville, Ark.
 Wathen, Charles Barbour, B.S., Univ. of Ky., '34—Morganfield, Ky.
 Wiley, Horace Mann, A.B., Friends Univ., '34—Garden City, Kans.
 Wootten, Betsy Geraldine, A.B., Univ. of Calif. at Los Angeles, '35—Los Angeles, California
 Wright, Sydney Thurman, A.B., Fresno State Teachers Coll., '35—Selma, Calif.
 Young, Robert Helm, A.B., Washington Univ., '36—Kirkwood, Mo.

Total, 97.

THIRD YEAR CLASS

Ahrens, Roy Edwin, Jr., A.B., Washington Univ., '36—St. Louis, Mo.
 Albert, Bernice, A.B., Washington Univ., '37—St. Louis, Mo.
 Bachwitt, David, A.B., Washington Univ., '37—Brooklyn, N. Y.
 Bartels, Bernhardt Brandt, B.S., State Coll. of Wash., '37—Tacoma, Wash.
 Baughman, Jack Lober, A.B., Washington Univ., '37—East St. Louis, Ill.
 Beatty, John Henry, B.S., Univ. of Wash., '37—Everett, Wash.
 Beine, William Royal, A.B., Washington Univ., '34—Ontonagon, Mich.
 Bernstorff, Philip Wendall, A.B., Friends Univ., '37—Wichita, Kans.
 Black, Thomas William, A.B., Texas Christian Univ., '37—Evansville, Ind.
 Blackburn, Cecil Howell, A.B., Birmingham Southern Coll., '33; B.S., Howard Coll., '37—Fairfield, Ala.
 Bohnert, Earl, A.B., Washington Univ., '37—St. Louis, Mo.
 Bramwell, Donald Marion, B.S., Oregon State Coll., '36—Corvallis, Ore.
 Buckner, Robert Cave, A.B., Westminster Coll., '37; B.S., Univ. of Mo., '39—Mexico, Mo.
 Callaghan, Thomas Joseph, A.B., Stanford Univ., '36—Sacramento, Calif.
 Canaga, Bruce Livingston, Jr.—Lima, Peru.
 Caraco, Henry Aaron, A.B., Univ. of Calif. at Los Angeles, '37—Los Angeles, Calif.
 Chalkley, Judson Ireland, A.B., Westminster Coll., '36; B.S., Univ. of Mo., '39—Lexington, Mo.
 Connolly, Randall, A.B., Ohio Univ., '37—Parkersburg, W. Va.
 Cook, Robert Jerome, A.B., Washington Univ., '37—University City, Mo.
 Cross, James Hamilton, A.B., Washington Univ., '37—Dahlgren, Ill.
 Dickerson, Robert Brooks, A.B., Pomona Coll., '33—San Diego, Calif.
 Dills, Joseph Newton, A.B., Univ. of Mo., '38; B.S., Univ. of Mo., '39—Camden-ton, Mo.
 Ellis, Calvin Carlyle, A.B., Washington Univ., '37—Okmulgee, Okla.
 Ellman, Alexander, B.S., Univ. of Ark., '37—Brooklyn, N. Y.
 English, Milton Tate, Jr., A.B., Univ. of Mo., '38—Kirksville, Mo.
 Erganian, Jane Arax, A.B., Washington Univ., '37—Webster Groves, Mo.
 Ferguson, Wilson Joseph, A.B., Dartmouth Coll., '36; B.S., Univ. of Mo., '39—Sedalia, Mo.
 Fildes, Charles Edward—Olney, Ill.
 Finkel, Barney William, A.B., Univ. of Mo., '37; B.S., Univ. of Mo., '39—St. Louis, Mo.
 Fleischer, Bertram, A.B., Univ. of Ala., '37—Woodside, L. I., N. Y.
 Franklin, Harold Charles, A.B., Grinnell Coll., '34—Atlantic, Iowa
 Garretson, Kirk Durand, A.B., Univ. of Calif., '37—Oakland, Calif.
 Glaser, Joseph Louis, A.B., Washington Univ., '37—St. Louis, Mo.
 Gollub, Samuel Walter—St. Louis, Mo.
 Graybill, John Gilbert, A.B., Westminster Coll., '37—Lebanon, Pa.
 Green, Ray Elmer, A.B., Univ. of Utah, '37—Salt Lake City, Utah.
 Guterman, Henry Samuel, A.B., Clark Univ., '37—Worcester, Mass.
 Hagood, Robert Bragg, Jr., B.S., Univ. of Ga., '37—Lowndesboro, Ala.
 Harsh, Ralph Thomas, A.B., Univ. of Mo., '36; B.S., A.M., Univ. of Mo., '38—Jefferson City, Mo.
 Hayles, Alvin Beasley, B.S., Spring Hill Coll., '37—Atmore, Ala.
 Hertz, Sylvan Altschiller, B.S., Univ. of Okla., '36—New York, N. Y.
 Ivins, Joseph Louis, A.B., Univ. of Pa., '37—Chester, Pa.
 Jackson, Thomas Stroud, A.B., Univ. of Ala., '37—Clio, Ala.
 Johnson, Nelson Witter, A.B., Univ. of Ariz., '37—Wisconsin Rapids, Wis.
 Judy, Joseph David—Ferguson, Mo.
 Kahn, Leon, B.S., Coll. of the City of N. Y., '36; M.S., Univ. of Mich., '37—Brooklyn, N. Y.
 Kinder, James Absalom, Jr., A.B., Washington Univ., '37—Cape Girardeau, Mo.
 Koerner, Kenneth Albert, A.B., Washington Univ., '35—St. Louis, Mo.
 Kohl, Mathias Franz Frederick, B.S., Mount Union Coll., '33; Ph.D., Univ. of Rochester, '38—St. Louis, Mo.
 La Force, Richard Francis, A.B., Univ. of Mo., '37—Carthage, Mo.

- Lanier, Virginia Singleton, B.S., '37; A.B., '38, Western Ky. Teachers Coll.—Bowling Green, Ky.
 Lee, John Portmess, A.B., Hanover Coll., '36—Rochester, N. Y.
 Lemmon, George Bruce, Jr., A.B., Dartmouth Coll., '38—Springfield, Mo.
 Letterman, Gordon Sparks, A.B., Washington Univ., '37—St. Louis, Mo.
 Marica, Donald James, B.S., Univ. of Toledo, '36—Toledo, Ohio
 Mark, Philip Frederick, A.B., Univ. of Ark., '37—Eureka Springs, Ark.
 Martin, Ruth Campbell, A.B., Texas Christian Univ., '37—Del Rio, Tex.
 Martin, Samuel Preston—East Prairie, Mo.
 Matthews, Jane Maysey, A.B., Univ. of Ala., '38—Montgomery, Ala.
 McCann, Harold Edward—East St. Louis, Ill.
 McElroy, Donald McGregor, B.S., Univ. of Wash., '37—Tacoma, Wash.
 McGinnis, William Fitch—Carbondale, Ill.
 Moreland, Joseph Ivan—East St. Louis, Ill.
 Mueller, Vernetta Austin, Jr., A.B., Municipal Univ. of Wichita, '38—Wichita, Kansas
 Nielsen, Cedric Axel, A.B., Univ. of Mo., '38; B.S., Univ. of Mo., '39—St. Louis, Mo.
 Noah, Joseph William, A.B., Univ. of Mo., '38; B.S., Univ. of Mo., '39—Webster Groves, Mo.
 Ozment, Thomas Lewis, A.B., Washington Univ., '37—Harrisburg, Ill.
 Pickett, Frank Joseph, A.B., Westminster Coll., '36—Joplin, Mo.
 Putnam, John Andrews, A.B., Yale Coll., '32—Carthage, Mo.
 Ramsey, Joseph Hawthorne, A.B., Univ. of Ala., '38—Carbon Hill, Ala.
 Ransom, Charles Herman, A.B., Univ. of Calif., '35—Modesto, Calif.
 Reed, Darwin Cramer, A.B., Municipal Univ. of Wichita, '37—Wichita, Kans.
 Rehm, Carol Henry, B.S., Univ. of Chicago, '38—St. Genevieve, Mo.
 Rosen, Al, A.B., Univ. of Southern Calif., '36—Hollywood, Calif.
 Ross, Silas Earl, Jr., B.S., Univ. of Nev., '37—Reno, Nev.
 Sanderson, Barbara Ina, A.B., Okla. Coll. for Women, '37—Burbank, Okla.
 Schechter, Samuel Ely—St. Louis, Mo.
 Schwarz, Henry II—St. Louis, Mo.
 Shier, Julius Milton, A.B., Washington Univ., '37—Passaic, N. J.
 Slee, Vergil Nelson, A.B., Albion Coll., '37—Ithaca, Mich.
 Smith, Garland Fredrick, A.B., Westminster Coll., '37—St. Louis, Mo.
 Stahl, William Charles, B.S., Va. Poly. Inst., '31; M.S., Ohio State Univ., '32—Columbus, Ohio
 Stennes, John Lowell, A.B., Concordia Coll., '37; B.S., Univ. of N. Dak., '39—Harwood, N. Dak.
 Steward, Robert Wendell, B.S., Drury Coll., '37—Springfield, Mo.
 Sutherland, Earl Wilbur, Jr., B.S., Washburn Coll., '37—Burlingame, Kans.
 Tatum, Frank Kimball, A.B., Univ. of Miss., '37—Tupelo, Miss.
 Tompkins, Anne, B.S., Union Univ., '38—Burdette, Ark.
 Topp, William Leon, B.S., Univ. of Wash., '36—Seattle, Wash.
 Walker, Howard Seaborn Jones, B.S., The Citadel, '37—Mobile, Ala.
 Whitlock, Gerald Frederick, B.S., Baker Univ., '37; B.S., Univ. of Mo., '39—Eldon, Mo.
 Whitson, Betty, A.B., Univ. of Oregon, '36—Boise, Idaho.
 Williams, Charles Sampson—Malden, Mo.
 Williams, James Carter, A.B., Univ. of Ala., '36—Wilson, N. C.
 Womble, James George, A.B., Washington Univ., '37—Muskogee, Okla.
 Yanow, Mitchell—Madison, Ill.
 Yarbrough, Charles Lee—Cairo, Ill.

Total, 96.

SECOND YEAR CLASS

- Anderson, William Morris, B.S., Coll. of William and Mary, '38—Cramerton, N. C.
 Ascher, Eduard—St. Louis, Mo.
 Blumenthal, Herman Theodore, B.S., Rutgers Univ., '34; M.S., Univ. of Pa., '36; Ph.D., Washington Univ., '38—Rahway, N. J.
 Bressler, Bernard, A.B., Washington Univ., '38—St. Louis, Mo.
 Brindley, Hanes Hanby—Temple, Texas.
 Brown, Frank Augustus, Jr., A.B., Davidson Coll., '37—Hsuechowfu, China
 Brown, Royal Lee, A.B., Univ. of Utah, '32; A.M., Univ. of Utah, '33—Koo-sharem, Utah.
 Busse, Ewald William, A.B., Westminster Coll., '38—St. Louis, Mo.
 Callaway, Claude Parham—Palo Alto, California
 Crenshaw, James Faulkner, B.S., Birmingham Southern Coll., '33—Birmingham, Ala.
 Davis, William Joseph, B.S., Univ. of Wash., '38—Portland, Ore.
 Devereux, Edwin Ewing, A.B., Fresno State Teachers Coll., '38—Fresno, Calif.
 Eck, Birkle, A.B., Washington Univ., '38—St. Louis, Mo.
 Ellasberg, Alex—St. Louis, Mo.
 Ewing, Nathaniel Du Kate, A.B., Duke Univ., '37—Vincennes, Ind.
 Eyttinge, Ernest Joseph, A.B., Stanford Univ., '38—Redlands, Calif.
 Foote, Burton Alexander, B.S., Univ. of Wash., '38—Elma, Wash.
 Gibbel, Melvin Isaac, A.B., Illinois Coll., '38—Girard, Ill.

- Glashow, Julius—New York, N. Y.
 Grabau, Gene Henry, B.S., St. Louis Coll. of Pharm., '37—St. Louis, Mo.
 Graul, Walter Phillip, A.B., Valparaiso Univ., '38—St. Louis, Mo.
 Groshart, Gene Marion, B.S., Univ. of Wyo., '38—Worldand, Wyo.
 Hamlin, Edwin Marshall, A.B., Univ. of Calif., '38—Santa Rosa, Calif.
 Herdener, Russell Louis, B.S., St. Ambrose Coll., '36—Moline, Ill.
 Herrmann, Arnold John, B.S., Elmhurst Coll., '38—St. Louis, Mo.
 Herz, James Rudolph, A.B., Univ. of Nev., '37—Reno, Nev.
 Huguley, Charles Mason, Jr., A.B., Emory Univ., '38—Atlanta, Ga.
 Ishida, Hiraku, A.B., Stanford Univ., '38—Menlo Park, Calif.
 Jones, Asa Charles, Jr., A.B., Washington Univ., '38—University City, Mo.
 Jones, Edward Henry, Jr., A.B., Western Reserve Univ., '37—Youngstown, Ohio.
 Jones, Wendell LeRoy—Missoula, Mont.
 Keenan, Thomas Marshall, A.B., Stanford Univ., '37—Great Falls, Mont.
 Klinge, Frederick William, A.B., Univ. of Mo., '38—St. Louis, Mo.
 Kotner, Irvin Alfred, A.B., Washington Univ., '38—St. Louis, Mo.
 Kraft, Edward Otto, Jr.—University City, Mo.
 Kreiss, Caroline Georgine, A.B., Univ. of Calif., '38—San Mateo, Calif.
 Levy, Samuel Arthur, A.B., Howard Coll., '38—Birmingham, Ala.
 Lockhart, Charles Ellsworth, A.B., Ill. Coll., '38—Witt, Ill.
 Loquvam, George Sheridan, B.S., Wash. St. Coll., '38—Spokane, Wash.
 Love, Frances Marshall, A.B., Rice Inst., '37—Houston, Texas.
 Madonia, Angelo Joseph, A.B., Univ. of Rochester, '38—Rochester, N. Y.
 Martz, John Charles, A.B., Univ. of Mo., '38—Kirkwood, Mo.
 McAfee, Chester Alan, B.S., Wash. St. Coll., '39—Long Beach, Calif.
 McCorkle, Elbert Lee, A.B., Mo. Valley Coll., '38—Marshall, Mo.
 Meamber, Donald Lester, A.B., Univ. of Calif., '37—Yreka, Calif.
 Mihelich, Lewis, B.S., Univ. of Idaho, '35; M.S., Univ. of Idaho, '38—Mullan, Idaho.
 Mill, Charles David, A.B., Washington Univ., '38—St. Louis, Mo.
 Mills, Warren B.—Webster Groves, Mo.
 Mueller, Charles Barber, A.B., Univ. of Ill., '38—Carlinville, Ill.
 Neavles, Jackson Coil, A.B., Washington Univ., '38—Webster Groves, Mo.
 Phillips, Donald McCracken, A.B., Washington Univ., '37—Clear Lake, Iowa.
 Pillsbury, Ruth Merrillie, A.B., Univ. of Calif., '37—Berkeley, Calif.
 Preston, Richard A., B.S., Utah St. Agri. Coll., '38—Logan, Utah.
 Ransom, Dow Harvey, Jr., A.B., Stanford Univ., '39—Madera, Calif.
 Reese, William George, B.S., Univ. of Idaho, '38; M.S., Univ. of Idaho, '38—Preston, Idaho.
 Reller, Helen Clarissa, A.B., Washington Univ., '38—St. Louis, Mo.
 Rice, Herman, A.B., Western Reserve Univ., '37—Cleveland, Ohio.
 Schreiber, Ruth, A.B., Washington Univ., '38—St. Louis, Mo.
 Schweitzer, Fred Carl, Jr., B.S., Drury Coll., '38—Springfield, Mo.
 Shahan, Philip Truman, A.B., Harvard Coll., '38—Clayton, Mo.
 Shobe, Frank Oscar, A.B., Washington Univ., '38—St. Louis, Mo.
 Showalter, John Ralph, Jr., A.B., De Pauw Univ., '38—Kirkwood, Mo.
 Stillerman, Hyman Bernard, B.S., Coll. of the City of N. Y., '36; M.S., Washington Univ., '38—Great Neck, N. Y.
 Stortz, Robert Benjamin—Pomona, Calif.
 Sweetman, Homer Allen—Seattle, Wash.
 Tillman, Walter William, Jr.—Springfield, Mo.
 Watkins, George Linn, A.B., Westminster Coll., '38—Farmington, Mo.
 Weaver, Jack Dorsey, A.B., Washington Univ., '38—Wichita, Kans.
 Weber, Joseph Hausner, B.S., Villanova Coll., '38—Olney, Ill.
 White, Abraham George, B.S., Coll. of the City of N. Y., '37—Ozone Park, L. I., N. Y.
 Withers, Martin Sanford, A.B., Univ. of Kansas, '38—Clay Center, Kans.
 Zell, Augustine Bernard, B.S., Univ. of Notre Dame, '38—Little Rock, Ark.

Total, 72.

FIRST YEAR CLASS

- Anderson, De Wayne Campbell—Stanhope, Iowa
 Anthony, Dallas Dean, B.S., Drury Coll., '39—Springfield, Mo.
 Arthur, John Mannen, III, A.B., Univ. of Kans., '39—Kansas City, Kan.
 Ashley, Hugh Vincent, Jr., A.B., Univ. of Mo., '39—Cape Girardeau, Mo.
 Aufder Heide, George Russell, A.B., Washington Univ., '39—St. Louis, Mo.
 Beamer, Parker Reynolds, A.B., Univ. of Ill., '35; M.S., Univ. of Ill., '37—St. Louis, Mo.
 Bergner, Grace Elizabeth, A.B., Washington Univ., '39—Granite City, Ill.
 Best, Robert Bruce—Paris, Ill.
 Birnsner, Frank Hinch, A.B., Washington Univ., '39—St. Louis, Mo.
 Bitter, Verner William, A.B., Luther Coll., '39—Tacoma, Wash.
 Bowersox, Warren Ashley, A.B., Municipal Univ. of Wichita, '39—Wichita, Kans.
 Boyle, Jean Rebecca, B.S., Univ. of Wash., '36; M.S., Univ. of Wash., '37—Seattle, Wash.
 Callahan, William Paul, Jr., B.S., Univ. of Notre Dame, '39—Wichita, Kans.
 Case, Dorothy Mildred—St. Louis, Mo.
 Charnas, Raymond Mervin, A.B., Washington Univ., '39—Brooklyn, N. Y.

- Conlin, Gerald John, Jr.—Blackfoot, Idaho.
 Corbin, Lawrence Tapp, B.S., Univ. of Kentucky, '39—Nebo, Ky.
 Dunn, Edward Hardin, A.B., Ohio Univ., '39—Portsmouth, Va.
 Farrington, Wilma Rose, A.B., Washington Univ., '39—St. Louis, Mo.
 Feldman, David—St. Louis, Mo.
 Fernau, Walter August, Jr., A.B., Washington Univ., '39—Belleville, Ill.
 Firminger, Harlan Irwin, A.B., Washington Univ., '39—St. Louis, Mo.
 Gieseke, Harold Waldemar, B.S., McKendree Coll., '35—Trenton, Ill.
 Goldman, Melvin Leonard, A.B., Washington Univ., '39—St. Louis, Mo.
 Guterman, Bert, A.B., Clark Univ., '39—Worcester, Mass.
 Haines, Wilbur Fox, A.B., Stanford Univ., '39—San Mateo, Calif.
 Harding, Herbert Clagett, B.S., Fort Hays, Kans. State Coll., '39—St. Louis, Mo.
 Hastings, John Jay, A.B., Lawrence Coll., '39—Kenosha, Wis.
 Hatley, Owen Paul, B.S., Univ. of Idaho, '39—Coeur d'Alene, Idaho.
 Holt, James Homer, A.B., Western Reserve Univ., '38—Wichita, Kans.
 Holt, Robert Earl, Jr.—Stuttgart, Ark.
 Huelsmann, Donald, A.B., Colo. Coll., '39—Colorado Springs, Colo.
 Hunt, Max Lloyd, B.S., Univ. of Ill., '39—Henry, Ill.
 Johann, Albert Eugene, A.B., State Univ. of Iowa, '39—Des Moines, Ia.
 Kanter, Stanley Samuel, A.B., Harvard Coll., '38—Mattapan, Mass.
 Keeney, Ivan Floyd, A.B., Ore. State Coll., '39—Ashland, Ore.
 Klingberg, William Gene, A.B., Municipal Univ. of Wichita, '38—Wichita, Kans.
 Knezekoff, Leonard, A.B., Washington Univ., '39—St. Louis, Mo.
 Knoke, Frederick William, Jr., A.B., Washington Univ., '39—Clayton, Mo.
 Layton, Ira Clare, A.B., Univ. of Kans., '39—Le Roy, Kans.
 Leibner, Ira Wallace, A.B., Univ. of Wis., '39—Brooklyn, N. Y.
 Lemen, Lois Elaine, B.S., St. Louis Univ., '39—St. Louis, Mo.
 Lemoine, Albert Napoleon, Jr., A.B., Univ. of Kans., '39—Kansas City, Mo.
 Lippert, Stuart Peter, A.B., Ill. Coll., '39—Ft. Sam Houston, Tex.
 Lohman, Edward Earnest, B.S., Bradley Poly. Inst., '39—Farmersville, Ill.
 Long, Charles Sutton, B.S., Univ. of Ky., '39—Lexington, Ky.
 Masunaga, Eichi, B.S., Univ. of Hawaii, '27—Honolulu, Hawaii.
 Mattick, Irvin Hertter—St. Louis, Mo.
 McDowell, Allyn Jay, B.S., Drury Coll., '39—Springfield, Mo.
 McQueen, Kent, B.S., Univ. of Idaho, '38—Preston, Idaho
 McWilliams, John Edwin, A.B., Colo. Coll., '39—Colorado Springs, Colo.
 Miller, Elmer Bowman, A.B., Washington Univ., '39—University City, Mo.
 Miller, James Augustus, A.B., Whitman Coll., '38—Colfax, Wash.
 Modert, Jean Maximilian, A.B., Washington Univ., '39—Mt. Vernon, Ill.
 Moore, Kermit Lyle, A.B., Fresno State Teachers Coll., '36—Selma, Calif.
 Nace, A. George, Jr., B.S., Coll. of Puget Sound, '39—Tacoma, Wash.
 Naney, Alva Paul, Jr.—Flora, Ill.
 Quinn, James Henry—Independence, Mo.
 Read, James Allan, A.B., Albion Coll., '39—Detroit, Mich.
 Rose, Raymond Frederick—Dupo, Ill.
 Rosenstein, Ernest Simon, A.B., Univ. of Calif., '38—San Francisco, Calif.
 Rouse, Ernest Tuttle, B.S., Ala. Poly. Inst., '39—Auburn, Ala.
 Rupp, Edson Coldren, Jr., A.B., Denison Univ., '36—Granville, Ohio.
 Santer, Daniel Gledden, B.S., Haverford Coll., '39—Milwaukee, Wis.
 Schricker, James Louis Jr., A.B., Univ. of Utah, '39—Salt Lake City, Utah.
 Schwartz, Ernest, A.B., Univ. of Calif., '38; M.A., Univ. of Calif., '39—San Francisco, Calif.
 Seidler, William A., Jr., A.B., Grinnell Coll., '39—Jamaica, Iowa.
 Shaw, Carvel Thomas, B.S., Univ. of Mich., '39—Detroit, Mich.
 Snyder, Edward Nicholas, A.B., Univ. of Southern Calif., '39—St. Louis, Mo.
 Sorenson, Allen Roger, A.B., Luther Coll., '38—Minot, N. Dak.
 Tabankin, Alvin Jacob, B.S., Coll. of William & Mary, '39—Newark, N. J.
 Thurlow, Alfred Amos, Jr.—Santa Rosa, Calif.
 Todd, Gordon, Musgrove, B.S., State Coll. of Wash., '39—Pullman, Wash.
 Uhlemeyer, Henry Adolph, Jr., A.B., Washington Univ., '39—St. Louis County, Missouri
 Vermillion, Crofford Oliver, A.B., De Pauw Univ., '39—Anderson, Ind.
 Wilson, Christopher Bernard—New York, N. Y.
 Wise, Robert James, A.B., Washington Univ., '39—Sparta, Mo.
 Wissmath, Frank Sum, A.B., Washington Univ., '39—Clayton, Mo.
 Wittler, Harry Albert, A.B., Washington Univ., '39—Lemay, Mo.
 Wooldridge, Wilfred Erwin, B.S., Drury Coll., '39—Springfield, Mo.
 Yore, Richard William, A.B., Washington Univ., '39—St. Louis, Mo.

Total, 81.

SUMMARY OF STUDENTS IN THE SCHOOL OF MEDICINE

Graduate Students	44
Fourth Year Class	97
Third Year Class	96
Second Year Class	72
First Year Class	81

Total, 390

ALPHABETICAL LIST OF NAMES

	PAGE		PAGE
Abel, Oliver, Jr.	24, 63	Bierbaum, Olga	28, 63
Ackerly, Roscoe H.	99	Bierman, Howard R.	99, 100
Ackerman, Albert	102	Biggs, Fred J., Jr.	102
Adams, George W.	102	Birsner, Frank H.	106
Aff, Helen M.	28, 80	Birsner, Louis J.	13, 77
Agress, Harry	29, 63	Bishop, Ethel Ronzoni	12, 58
Ahrens, John H.	29, 61, 99	Bishop, George H.	7
Ahrens, Roy E., Jr.	101, 104	Bishop, Marion D.	102
Aitken, Louis F.	18, 63, 66	Bitter, Verner W.	106
Albert, Bernice	104	Black, Thomas	104
Alden, Arthur M.	12, 77	Blackburn, Cecil H.	104
Alexander, Harry L. 9, 33, 34, 63, 65, 66		Blackwell, Thomas E.	34
Allen, Duff S.	12, 72, 75	Blades, Brian B.	20, 72, 74
Allen, Henry C.	21, 61	Blair, Edgar	18, 58
Allen, Hubert L.	27, 77	Blair, Vilray P.	9, 72
Allen, Willard M.	8, 33, 77, 78, 79	Blair, Vilray P., Jr.	99
Althaus, Carl J.	31, 72, 75	Blattner, Russell J.	21, 80, 81
Alvis, Bennett Y.	13, 76	Bleyer, Adrien	16, 80
Alvis, Edmund B.	26, 76, 77	Blum, Leo J., Jr.	99
Anderson, Charles R.	31, 80, 99, 101	Blumenthal, Herman T.	105
Anderson, DeWayne C.	106	Board, Leonard M.	23, 60
Anderson, George H.	102	Boemer, Lilburn C.	21, 77
Anderson, O. N.	35	Bohne, Arthur W.	99
Anderson, William M.	101, 105	Bohnert, Earl	104
Anschoetz, Robert R.	102	Borenstine, Joseph	99
Anthony, Dallas D.	106	Bortnick, Arthur	27, 77
Arbuckle, Millard F.	12, 77	Bottom, Donald S.	102
Arneson, A. Norman	19, 76, 77	Bowen, Mary E.	102
Arrowsmith, William R.	29, 63	Bowersox, Warren A.	106
Arthur, John M., III	106	Bowles, Herbert E.	102
Artz, Franz	24, 77	Boyers, Sidney S.	99
Ascher, Eduard	105	Boyle, Jean R.	106
Ashley, Hugh V., Jr.	106	Bradley, Frank R.	33, 34, 35
Aufder Heide, G. Russell	106	Brakel, Carl A.	99
Bachwitt, David	104	Bramwell, Donald M.	104
Bagby, James W.	30, 71	Brandner, Anna	35
Bain, Katherine	17, 80	Bredeck, Joseph F.	17, 60, 61, 63
Ballew, Clay	34	Bressler, Bernard	105
Barham, Berlin F.	99	Bricker, Eugene	22, 72, 74
Barnett, Henry L.	31, 80	Brindley, Hanes H.	105
Barr, David P.	6, 33, 34, 36 63, 64, 65, 68	Brockbank, Mark J.	99
Barry, Wallace G.	34	Bromberg, Leon	19, 63, 64
Bartels, B. Brandt	104	Bronfenbrenner, Jacques J.	7, 33 34, 59, 60
Bartlett, Robert W.	22, 56, 57, 72	Brookes, Henry S.	18, 72, 73
Bartlett, Willard	11, 72	Brookes, Theodore P.	14, 72, 75
Bartley, S. Howard	15	Brooks, Clyde M.	102
Barton, Wesley A.	102	Brown, Eli	15, 81
Basham, George L.	99	Brown, Frank A., Jr.	101, 105
Bauer, Joseph A.	25, 80	Brown, J. Barrett	11, 72
Baughman, Jack L.	104	Brown, Royal L.	105
Baumgarten, Walter	15, 63	Brown, Seymour	102
Baumgarten, Walter, Jr.	99	Brown, T. Kenneth	11, 34, 77, 78, 79
Baur, Alfred K.	99	Brown, Wilson G.	29, 61, 99
Beam, Sim F.	26, 63	Bryan, James H.	27, 76
Beamer, Parker R.	101, 106	Bryan, William T. K.	27, 77
Beasley, Louis K.	99	Buchmueller, Alfred D.	32, 66
Beatty, John H.	104	Buck, Robert E.	102
Becke, William G.	24, 63	Buckner, Robert C.	104
Beine, William R.	104	Budke, Harold A.	102
Beisbarth, Carl C.	19, 76, 77	Buehler, Carl T., Jr.	102
Bell, Robert M.	22, 66, 69	Bulger, Harold A.	12, 63, 65
Bennett, Jean F.	30, 63	Bunch, C. C.	7, 77
Berger, Franz A.	34	Burbidge, Earl L.	99
Berger, Irving L.	99	Burford, Thomas H.	27, 72
Bergner, Grace E.	101, 106	Burns, Francis R.	102
Bering, Isabel	35	Burton, William Y.	28, 76
Berman, Benjamin B.	99	Busse, Ewald W.	105
Bernard, William R.	99	Byars, Louis T.	25, 72
Bernstorf, Philip W.	104		
Best, Robert B.	106	Cady, Lee D.	16, 63
		Calhoun, Alan D.	22, 76

	PAGE		PAGE
Callaghan, Thomas J.	104	Dickerson, Robert B.	104
Callahan, William P., Jr.	106	Diehl, William H.	102
Callaway, Claude P.	105	Dills, Joseph N.	104
Campbell, Harry B.	99	Dix, John W.	99
Canaga, Bruce L., Jr.	104	Dodds, Donald C.	99
Canepa, Edward G.	99	Dominick, Thomas B.	103
Canepa, Francis J.	24, 77	Douglas, Paul L.	99
Cannady, Edward W.	25, 63	Douglas, Thomas H., Jr.	99
Cannon, Bradford	25, 72	Dowling, Judson D., Jr.	103
Caraco, Henry A.	104	Drabkin, Charles	17, 77
Carpenter, George O.	5	Drake, Truman G.	30, 63, 64
Carr, Archie D.	14, 66, 69, 70	Drescher, Emmett B.	28, 72
Carter, Lemuel R.	5, 36	Duden, Charles W.	17, 63
Case, Dorothy M.	106	Dueker, Anna M.	34
Catlin, Daniel K.	5	Dunham, Tom H.	102
Cayce, Lee F.	102	Dunn, Edward H.	101, 107
Cellio, Lewis W.	102	Dyktor, Herbert G.	23, 60, 61
Chalkley, Judson I.	104		
Charles, Ben H.	30, 63	Eck, Birkle	105
Charles, Cecil M.	14, 56, 57, 63	Eckert, Charles L.	99
Charnas, Raymond M.	106	Edwards, David R.	103
Claiborne, Estelle D.	33, 35	Edwards, Joseph C.	22, 63
Clarke, Harvel B.	102	Ehrenfest, Hugo	8
Clesse, Frances A.	34	Eliasberg, Alex.	105
Clopton, Malvern B.	5, 9, 33, 36, 72	Elliott, Robert W.	29, 63
Clothier, William L.	102	Ellis, Calvin C.	104
Cockett, Patrick M., Jr.	99	Ellis, Orwyn H.	29, 76
Coleman, William G.	19, 71	Ellman, Alexander	104
Colowick, Sidney	31, 62	Elman, Robert	10, 72, 73, 75
Cone, Alfred	17, 77	Elmer, Warren P.	9, 63
Conlin, Gerald J., Jr.	107	Elsworth, John N.	99
Connolly, Randall	104	Emery, Edgar V.	23, 66, 68
Conrad, Adolph H.	16, 71	English, Milton T., Jr.	104
Cook, Jerome E.	15, 63, 65	Engman, Martin F.	8, 71
Cook, Robert J.	104	Engman, Martin F., Jr.	19, 71
Cooke, Jean V.	7, 34, 80, 81	Epstein, Carl C.	99
Copher, Glover H.	10, 34, 72, 73, 75	Erganian, Jane A.	80, 104
Corbin, Lawrence T.	107	Erlanger, Joseph	6, 33, 58
Cordonnier, Justin J.	22, 72	Ernest, John H.	34
Corgill, Donald A.	99	Eskeles, Irwin H.	24, 71
Cori, Carl F.	7, 33, 62, 63	Esslinger, Arthur T.	103
Cori, Gerty T.	15, 62	Ewerhardt, Frank H.	11, 34, 63, 82
Costen, James B.	14, 77	Ewing, Nathaniel D.	105
Cowdry, Edmund V.	7, 33, 34, 56, 57	Eyermann, Charles H.	16, 63
Crawford, Jay	20, 36, 76	Eytinge, Ernest J.	105
Crego, Clarence H.	13, 72		
Crenshaw, James F.	105	Fallenstein, Rose	34
Crider, Russell J.	102	Farrington, Wilma R.	107
Cron, Heinz E.	99	Feldman, David	107
Cross, James H.	104	Feller, Harold H.	31, 72, 75
Cross, Roland R., Jr.	102	Ferguson, Wilson J.	104
Crossen, Harry S.	8	Fernandez, Leabert R.	103
Crossen, Robert J.	14, 77	Fernau, Walter A., Jr.	107
Crowdus, William W.	23, 82	Fildes, Charles E.	104
Crowell, Thomas W.	102	Findley, Thomas	14, 34, 63, 65
Crutcher, Luke F., Jr.	99	Fingert, Hyman H.	23, 66, 69
Curtis, William S.	102	Finkel, Barney W.	104
Cutler, Harold M.	102	Firminger, Harlan I.	107
Cutler, Harry	31, 72, 75	Fischel, Walter	16, 63, 65
		Fisher, Arthur O.	11, 33, 72
Dameron, Edward O.	99	Fleischer, Bertram	104
Danforth, William H.	5, 36	Fleming, Albert E.	103
Davis, Frank L.	102	Fleming, Ruth	99
Davis, Mrs. J. Lionberger	35	Foerster, James M.	103
Davis, Myron W.	24, 77, 78	Foote, Anna R.	34
Davis, William J.	105	Foote, Burton A.	105
Day, Anthony B.	17, 63, 65	Foseid, Oscar F.	99
Deakin, Rogers	14, 72, 75	Foster, Miles E., Jr.	99
Dean, Lee Wallace	7, 33, 34, 77	Fox, Leon J.	99, 100
Dean, Lee Wallace, Jr.	26, 77	Franklin, Harold C.	56, 104
Deems, Myers B.	102	Fraser, George F.	99
Delano, James G.	102	Fraser, Richard S.	99
Deutch, Max	19, 80	Fredberg, Clifford W.	102
Deutsch, Felix	11, 66, 68, 69, 70	Freiberg, Irene K.	17, 58
Devereux, Edwin E.	105	Freimuth, Louis E.	24, 77

	PAGE		PAGE
Friedman, Henry T.	103	Harrison, Lee B.	25, 63
Furlow, Leonard T.	11, 72, 75	Harrison, Stanley	20, 80
Gage, Helen	24, 77	Harsh, Ralph T.	104
Gallagher, John E.	103	Hartmann, Alexis F.	7, 33, 34, 80, 81
Galt, Charles E., Jr.	103	Haskell, Mrs. John	36
Garretson, Kirk D.	104	Hastings, John J.	107
Garrett, Robert L.	103	Hatley, Owen P.	107
Gay, Lee P.	24, 63	Hauptman, Harry	29, 77
Geppert, Leo J.	99	Hayles, Alvin B.	104
Gibbel, Melvin I.	105	Hayward, Samuel J.	31
Gibbins, Donald G.	36	Hayward, Willis	29, 77
Gibson, Edna M.	36	Heideman, Alvah G.	27, 72
Gibson, Ora J.	28, 77, 78	Heinbecker, Peter	10, 72, 73, 75
Gieseke, Harold W.	107	Helm, John E.	99
Gillette, Perry C.	103	Helwig, Elson B.	22, 61, 62
Gilson, Arthur S., Jr.	10, 58	Hemingway, Wilson L.	5
Gitt, Joseph	22, 66, 70	Hempelmann, Louis H.	16, 63
Glaser, Joseph L.	104	Hempelmann, T. C.	10, 80
Glasgow, Carlota	35	Hennessey, Maude M.	34
Glashow, Julius	106	Henson, Lafayette L.	102
Glassberg, Bertrand Y.	24, 63	Herdener, Russell L.	106
Glick, Harry N.	21, 77	Herrmann, Arnold J.	106
Goerger, Verne F.	103	Hershey, Alfred D.	15, 59, 60
Goldman, Alfred	16, 63, 65	Hertz, Sylvan A.	104
Goldman, Lawrence	18, 80	Herz, James R.	106
Goldman, Melvin L.	107	Hess, George J.	99
Goldring, David	103	Hetzl, Clarence C., Jr.	102
Gollub, Samuel W.	104	Hildebrand, Roy D.	102
Gorham, Frank D.	16, 63	Hildebrand, William B.	99
Gottlieb, Leo	20, 63, 65	Hildreth, H. Rommel	18, 76
Gottschalk, Roger	103	Hirst, Russell N.	103
Grabau, Gene H.	106	Hobbs, John E.	18, 77, 78, 79
Graham, Ewarts A.	6, 33, 34, 72, 74, 75	Hoblitzelle, Lucy F.	33
Graham, Helen Tredway	11, 62, 63	Hoekstra, Lilly D.	35
Graham, John G., Jr.	99	Hoernschemeyer, Joseph L.	102
Grant, Samuel B.	16, 63, 65	Hofstatter, Leopold	31, 72
Graul, Walter P.	106	Holden, Raymond	27, 63
Graybill, John G.	104	Holland, Mrs. Robert A., Jr.	34, 35, 36
Greaves, Fern H.	103	Holt, James H.	107
Greaves, Joseph D.	21, 58	Holt, Robert E., Jr.	107
Greeley, Robert H.	99	Hoover, Robert A.	99
Green, Ray E.	104	Horner, John	28, 63
Gregory, Kendall D.	103	Hourn, George E.	13, 77
Grindell, George A.	103	How, Alfred	28, 76
Gronau, Axel	27, 59, 60	Huelsmann, Donald	107
Groshart, Gene M.	106	Hughes, Arthur L.	8, 33, 76
Growdon, James H.	103	Huguley, Charles M., Jr.	101, 106
Grunow, Otto H.	103	Hunt, Max L.	107
Guggenheim, Paul	103	Huntington, Margaret O.	103
Guterman, Bert	107	Hutto, Herman	30, 77
Guterman, Henry S.	104		
Haddon, Joseph E.	102	Iknayan, Herbert A.	103
Haffner, Heinz	27, 72	Inderlied, Herman F.	99
Hageman, Paul O.	21, 34, 63	Ingram, Margaret A.	99
Hagood, Robert B., Jr.	104	Ishida, Hiraku	106
Haines, Wilbur F.	107	Ivins, Joseph L.	104
Hall, John R., Jr.	99		
Hamlin, Edwin M.	106	Jackson, Thomas S.	104
Hampton, O. P., Jr.	28, 72	Jacobs, Frederick A.	19, 80
Hansel, French K.	13, 77	Jacobs, Max W.	12, 76, 77
Hansen, Phil	99	Jacobsen, Carlyle F.	7, 34, 66, 68, 69
Hanser, S. Albert	29, 76	Jacobson, Leonard H.	99
Hanson, William L.	23, 77	Jacoby, Louise Q.	32
Harbison, Samuel P.	28, 72	James, Ruby B.	35
Hardaway, Robert M., III	99	James, William M.	17, 76
Harding, Herbert C.	107	Jaudon, Joseph C.	20, 80
Hardy, Guerdan	25, 77	Jean, J. Ted	18, 34, 63, 65
Hardy, William F.	10, 76	Jensen, Julius	14, 63, 65
Harford, Carl G.	21, 59, 60, 63	Johann, Albert	107
Harrell, Julius G.	99	Johnson, Charles H.	103
Harris, Joe B.	103	Johnson, Mary B.	103
Harris, Robert A., Jr.	80	Johnson, Nelson W.	104
Harrison, E. Kendall	34	Johnson, Robert H.	103
		Johnston, Peter R.	99
		Jolly, Benjamin N.	103

THE SCHOOL OF MEDICINE

111

PAGE	PAGE
Jones, Andrew B. ....13, 66, 68, 69, 70	Lawrence, John V. ...8, 33, 34, 36, 63, 66
Jones, Asa C., Jr. ....106	Layton, Ira C. ....107
Jones, Dorothy J. ....28, 80	Lazar, Morton R. ....28, 77
Jones, Edward H., Jr. ....106	Lee, John P. ....105
Jones, Robert McK. ....5	Leibner, Ira W. ....107
Jones, Sam .....99	Lemen, Lois E. ....107
Jones, Theodore .....29, 63	Lemmon, George B., Jr. ....105
Jones, Wendell L. ....106	Lemoine, Albert N., Jr. ....107
Jordan, Fred C., Jr. ....100	Lennette, Edwin H. ....21, 61
Jordan, Raymond E. ....102	Lermit, Geraldine .....15
Jostes, Frederick A. ....15, 72, 75	Letterman, Gordon S. ....101, 105
Judy, Joseph D. ....104	Levy, Samuel A. ....106
Julianelle, Louis A. ....10, 76	Leydig, Stanley .....30, 72
	Liebenberg, Henry S. ....102
Kahn, Leon .....104	Liese, Grover B. ....18, 77, 78
Kahn, Ruth .....21, 63	Liggett, Hiram S. ....17, 63, 66
Kaiser, Helen .....34	Lindley, E. Herbert .....103
Kallenbach, Glen P. ....103	Ling, Chin-Huan .....32, 77
Kanter, Stanley S. ....107	Linton, Lloyd D. ....26, 77
Keenan, Thomas M. ....106	Lippert, Stuart P. ....107
Keeney, Ivan F. ....107	Lischer, Benno .....34
Keith, Mary J. ....33, 36	Lischer, Carl E. ....28, 72
Kelley, Isaac D., Jr. ....13, 77	Lockhart, Charles E. ....106
Kelley, Robert .....29, 63	Loeb, Leo .....6, 41
Kenamore, Bruce D. ....21, 63, 66	Loeb, Virgil .....9, 82
Kendall, Barbara S. ....24, 66	Lohman, Edward E. ....107
Kent, Edward M. ....31, 72	Lohr, Curtis .....33
Kerr, David N. ....103	Londe, Sol .....20, 80
Kettelkamp, George D. ....15, 63	Long, Charles S. ....107
Kettenbach, Floralou .....103	Long, Thomas S. ....103
Key, J. Albert .....9, 72, 73, 75	Lonsway, Maurice J. ....23, 80
Keyes, Edward L., Jr. ....24, 72	Loquvam, George S. ....106
Keys, Edward H., Jr. ....100	Love, Frances M. ....59, 101, 106
Kile, Roy L. ....26, 71	Love, William D. ....103
Kinder, James A., Jr. ....104	Lundmark, V. O. ....29, 72
Kingsland, Robert .....29, 63	Luten, Drew W. ....10, 63, 65
Kingsley, Sumner B. ....103	Lyman, Harry W. ....10, 77
Kinman, Lindell M. ....103	
Kirby, Daniel N. ....5	MacBryde, Cyril .....14, 63, 64
Kirtz, Marian M. ....31	MacCardle, Ross C. ....31, 56, 71
Kitchen, Burton E. ....103	Macdonald, William C. ....103
Kleine, Hans L. ....26, 77	Madonia, Angelo J. ....106
Klemme, Roland M. ....17, 72	Mallinckrodt, Edward, Jr. ....5, 38
Klingberg, William G. ....107	Mallinckrodt, Mrs. Edward, Jr. ....35
Klinge, Frederick W. ....106	Mann, James .....103
Klok, George J. ....29, 80	Mansbacher, Kurt .....26, 63
Kneznokoff, Leonard .....107	Mantz, Harry E. ....22, 61
Knoke, Frederick W., Jr. ....107	Marcus, Morris D. ....30, 71
Knowles, Cornelia S. ....35	Mariea, Donald .....105
Koch, Robert E. ....103	Mark, Philip Frederick .....105
Koenig, Karl F. ....27, 63	Martin, Ruth C. ....105
Koerner, Kenneth A. ....104	Martin, Ruth E. ....80
Kohl, Mathias F. F. ....28, 62, 104	Martin, Samuel P. ....105
Kopp, Julius H. ....31, 72, 75	Martz, John C. ....106
Kotner, Irvin A. ....106	Mason, Roy E. ....23, 76
Kountz, William B. ....13, 63, 65	Massie, Edward .....22, 63
Kraft, Edward O. ....106	Masunaga, Elchi .....107
Krebs, Otto S. ....13, 77, 78	Matthews, Jane M. ....105
Kreiss, Caroline G. ....106	Mattick, Irvin H. ....107
Kubitschek, Paul E. ....16, 66, 69, 80	Maughs, Sydney B. ....30, 66, 69
Kuhlmann, Raymond F. ....100	Max, Paul F. ....26, 77
Kulesher, Henry T. ....102	Maxwell, Reuben J. ....100
	McAfee, Chester A. ....106
La Force, Richard F. ....104	McCann, Harold E. ....105
Lamar, Robert F. ....100	McCarroll, H. Relton .....21, 72
Lamb, Harvey D. ....12, 76	McCarthy, Mrs. Eugene .....36
Landau, Richard L. ....103	McCluney, Mildred .....36
Lane, Clinton W. ....19, 71	McCluney, Mrs. Samuel .....35
Lange, Adolph C. ....20, 76, 77	McCorkle, Elbert Lee .....106
Langsdorf, Alexander S., Jr. ....23, 76	McCourt, Walter E. ....6
Lanier, Raymond R., Jr. ....29, 56	McCulloch, Hugh .....11, 33, 80, 81
Lanier, Virginia S. ....105	McCullough, Jerome J. ....103
Larimore, Joseph W. ....10, 63, 65, 76	McDowell, Allyn J. ....101, 107
Latham, Kenyon S. ....100	McDowell, Frank .....31, 72
Lawrence, Ella B. ....34	McElroy, Donald M. ....105

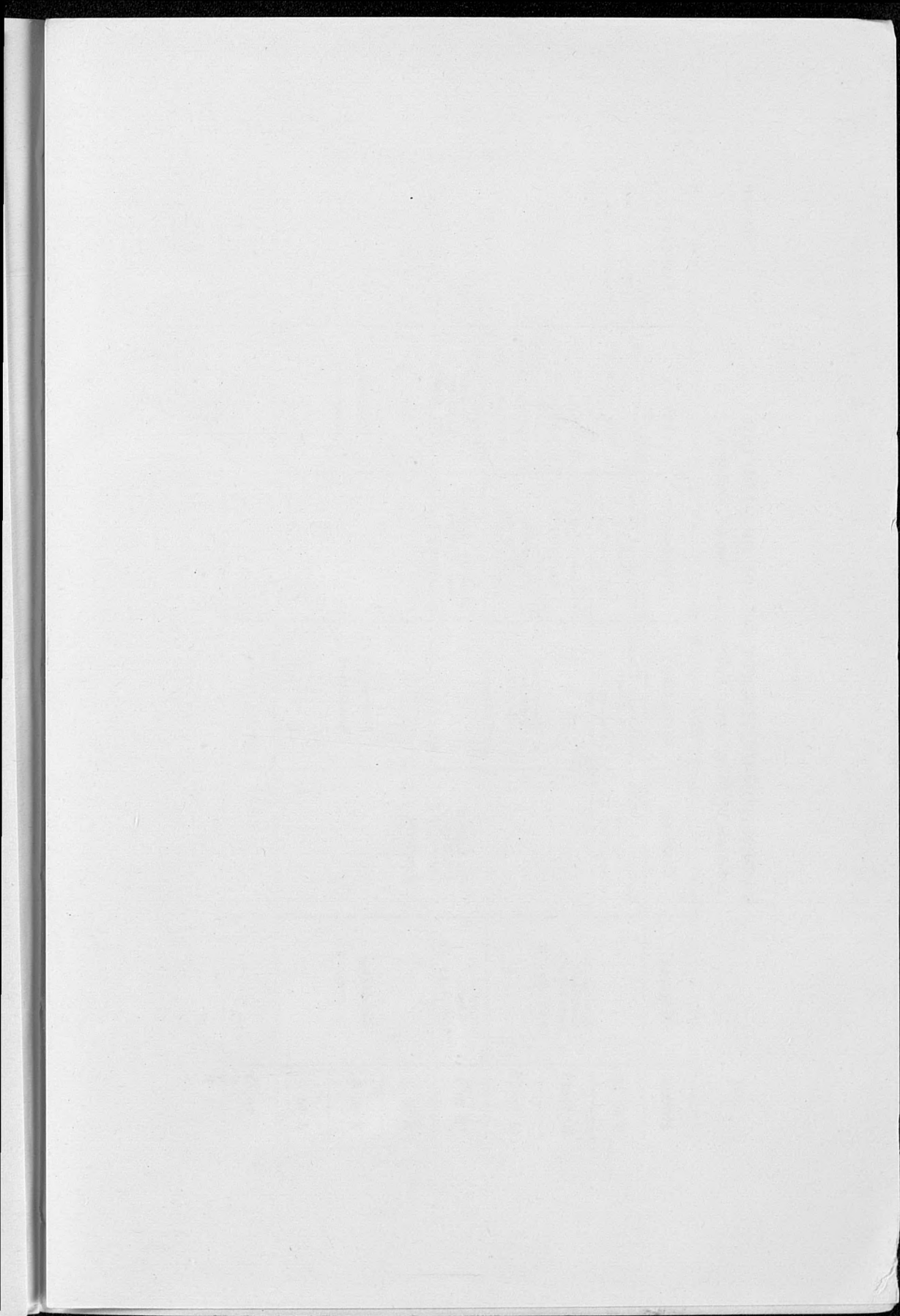
	PAGE		PAGE
McElroy, West G.	100	Parker, Joe M.	29, 72
McFayden, Mary C.	103	Parker, William B.	6, 33, 34
McGinnis, William F.	105	Passanante, Bartholomew	100
McHenry, DeArmond J.	102	Patton, John F.	25, 72, 75
McKenzie, Rodney J.	102	Patton, Leslie E.	26, 77
McLaughlin, James R.	102	Payne, Elizabeth	35
McMahon, Bernard J.	13, 77	Pearce, Lee J.	103
McMahon, John R.	100	Perley, Anne M.	17, 80
McNalley, Frank P.	12, 77, 79	Peterson, Roy L.	102
McQueen, Kent	66, 101, 107	Petkevich, Frank M.	29, 61
McWilliams, John E.	107	Peugnet, Hubert B.	18, 58
Meamber, Donald L.	106	Phillips, Donald M.	106
Mehrten, Grace	24, 63	Phillips, Rosemary	23, 60
Meisenbach, A. E.	29, 76	Pickett, Frank J.	105
Melick, William F.	100	Pillsbury, Ruth M.	106
Merrill, Robert L.	103	Poos, Grover H.	17, 76
Meyer, Theodore R.	23, 60, 61	Post, Lawrence T.	7, 33, 34, 76, 77
Mihelich, Lewis	106	Post, M. Hayward	11, 76, 77
Milder, Benjamin	100	Pote, Thomas B.	23, 61
Mill, Charles D.	106	Potter, Allen B.	24, 77
Miller, Elmer B.	107	Preisler, Paul W.	19, 58
Miller, James A.	107	Preston, Richard A.	106
Miller, Mary Lucy	30, 61	Probstein, J. G.	18, 72
Mills, John F.	102	Proetz, Arthur W.	9, 34, 77
Mills, Warren B.	106	Proud, G. O'Neil	100
Mira, Joseph J.	103	Pruett, Burchard S.	31, 72, 73
Modert, Jean M.	107	Putnam, John A.	105
Moffitt, Laurl W.	102	Queeny, Edgar M.	5
Moore, Carl V.	15, 63, 64, 65, 66	Quinn, James H.	107
Moore, Gordon F.	103	Rainey, Warren	15, 72, 73
Moore, Kermit L.	107	Ramsey, Joseph H.	105
Moore, Marjorie M.	35	Rand, Frank C.	5
Moore, Morris	27, 71	Ransom, Charles H.	105
Moore, Robert A.	8, 33, 61, 62, 69	Ransom, Dow H., Jr.	106
Moore, Sherwood	7, 33, 34, 76	Read, James A.	101, 107
Moreland, Joseph I.	105	Read, William T.	103
Morrin, Kevin C.	20, 77	Reames, Harold R.	30, 61
Morris, Marion	20, 59, 60	Reed, Darwin C.	105
Morrison, Donald	34	Reese, William G.	66, 101, 106
Morrison, Frank A.	28, 77	Rehm, Carol H.	105
Mueller, Charles B.	101, 106	Reinhard, Edward H.	100
Mueller, Vernette A., Jr.	105	Reller, Helen C.	106
Muirhead, Robert M.	102	Reynolds, Garland A.	102
Mullen, Aloysius J.	100	Reynolds, Mary M.	85
Murphy, Paul	23, 63	Rice, Mrs. Charles M.	34, 35
Myers, Daniel	20, 63, 64, 65	Rice, Herman	106
Nace, A. George, Jr.	107	Richman, Elmer	24, 63
Nadell, Raymond	31, 66	Rindskopf, Wallace, Jr.	103
Nagel, Charles	5	Ringgenberg, Calvin	34
Naney, Alva P., Jr.	107	Rioch, David McK.	7, 33, 66, 68, 69, 70
Nantz, Frank A.	102	Ritter, Morton D.	100
Neavles, Jackson C.	106	Ritterskamp, James J., Jr.	34
Neher, C. Kendal	102	Robertson, Howard T.	103
Neubauer, Darwin W.	100, 101	Robertson, James H.	103
Newell, Merl A.	102	Robinson, Donald W.	100
Newell, Quitman U.	9, 77, 79	Robinson, Leo D.	103
Newman, Harold G.	25, 63	Roblee, Melvin A.	20, 77
Newman, William J.	31, 72	Roche, M. B.	29, 72
Nielsen, Cedric A.	105	Rodenberg, Elmer J.	102
Nims, Eugene D.	5	Rohlfing, Edwin H.	19, 80
Noah, Joseph W.	105	Roper, Stanley D.	100
Nunn, Joshua	102	Rose, Dalton K.	9, 72, 74
Nuttall, Leonard W.	100	Rose, Raymond F.	107
Obermeyer, Charles G.	103	Rosen, Al	105
O'Keefe, Charles D.	12, 77, 79	Rosenbaum, Harry	27, 76
O'Leary, James L.	10, 56, 57	Rosenstein, Ernest S.	107
Olmsted, William H.	10, 63, 65	Ross, Silas Earl, Jr.	105
Olsen, Arthur R.	102	Rossow, Russell J.	100
O'Neill, John B.	25, 77	Rouse, Ernest T.	101, 107
Orman, Oscar C.	34	Rowland, Willard D.	103
Ozment, Thomas L.	105	Rowlette, Avery P.	14, 72, 75
Paddock, Richard	13, 77, 79	Royston, Grandison D.	9, 77, 79
Park, Oakley K.	103	Ruhoff, Mary B.	31, 80

Mr. J. J. J. J.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
 Schedule of First Year. February 10 - June 6, inclusive

1940-41

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Biological Chemistry Laboratory Chemistry 3	Biological Chem. Lecture Chemistry 3	Biological Chem. Lecture Chemistry 3	Biological Chem. Lecture Chemistry 3	Biological Chem. Lecture Chemistry 3 (½ class)	Physiology Lecture Physiology 2a
10 to 11		Biological Chemistry Laboratory Chemistry 3	Biological Chemistry Laboratory Chemistry 3	Anatomy Lecture Anatomy 1	Anatomy Lecture Anatomy 1	
11 to 12				Physiology Lecture Physiology 2a	Physiology Lecture Physiology 2a	
12 to 1				Physiology Lecture Physiology 2a	Military Science and Tactics 1	Biological Chem. Lecture Chemistry 3 (½ class)
2 to 3	Dissection Anatomy 1	Chemistry 3	Dissection Anatomy 1		Dissection Anatomy 1	
3 to 4						
4 to 5						
5 to 6			Special Lectures			



WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1940-41

Schedule of First Year. February 10 - June 6, inclusive

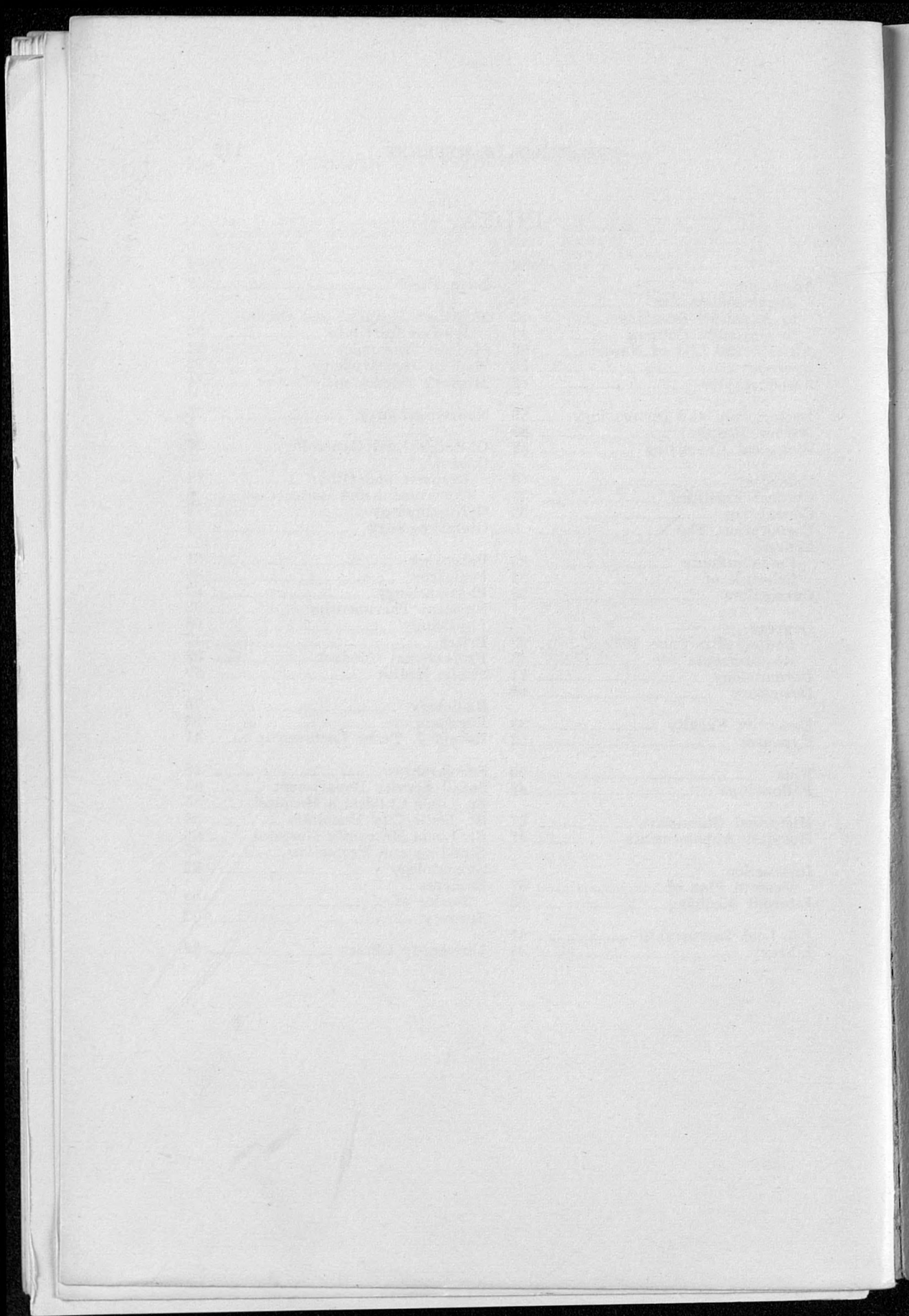
HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Biological Chemistry Laboratory Chemistry 3	Biological Chem. Lecture Chemistry 3	Biological Chem. Lecture Chemistry 3	Biological Chem. Lecture Chemistry 3	Biological Chem. Lecture Chemistry 3 ($\frac{1}{2}$ class)	Physiology Lecture Physiology 2a
10 to 11		Biological Chemistry Laboratory Chemistry 3	Biological Chemistry Laboratory Chemistry 3	Anatomy Lecture Anatomy 1	Anatomy Lecture Anatomy 1	
11 to 12				Physiology Lecture Physiology 2a	Physiology Lecture Physiology 2a	
12 to 1				Physiology Lecture Physiology 2a	Military Science and Tactics 1	Biological Chem. Lecture Chemistry 3 ($\frac{1}{2}$ class)
2 to 3	Dissection Anatomy 1	Chemistry 3	Dissection Anatomy 1		Dissection Anatomy 1	
3 to 4						
4 to 5						
5 to 6			Special Lectures			

	PAGE		PAGE
Rupe, Wayne A.	16, 80	Smith, John R.	23, 63
Rupp, Edson C.	107	Smith, Joseph J.	103
Rusk, Howard A.	17, 63, 65	Smith, Margaret G.	13, 61, 62
Russell, Thomas	30, 76	Smith, Milton	24, 63
Russell, William O.	22, 61, 62, 69	Smith, Robert M.	103
Sachar, Leo A.	103	Smith, Rodger B.	102
Sachs, Ernest	8, 33, 72, 74, 75	Snyder, Edward N.	107
Sale, Llewellyn	15, 63, 65	Sorenson, A. Roger	107
Sale, Llewellyn, Jr.	101, 103	Soule, Samuel D.	19, 77, 78, 79
Sanders, T. E.	21, 76, 77	Spalding, Maurice A.	102
Sanderson, Barbara	105	Stahl, William C.	105
Sanford, J. Hoy	18, 72	Starkloff, Gene B.	100
Santer, Daniel G.	107	St. Clair, Frederick G.	34
Satterfield, Val B.	15, 66, 68	Stennes, John L.	105
Satyasanguan, Fuang	32, 72	Stevenson, Philo	34
Saunders, Henry F.	30, 80	Stewart, Frances H.	25, 77
Saunders, Leon S.	102	Stewart, Robert W.	105
Savory, John H.	103	Sticklen, Margaret	34
Sawyer, Harry W.	103	Stillerman, Hyman B.	59, 106
Schechter, Samuel E.	105	Stix, Ernest W.	5
Scheff, Harold	27, 63	Stone, Charles A.	12, 72, 75
Scherrer, Frederick W.	25, 77	Stoner, Mrs. Stanley	35
Schlossstein, Adolph G.	16, 77	Stortz, Robert B.	106
Schmidt, Gerhard	31, 62	Strauch, John B.	5
Schmidtke, Edwin C.	31, 72, 73	Strauchen, Gilbert W.	103
Schoen, Frederic L.	103	Strauss, Arthur E.	16, 63, 66
Scholz, Walter V.	36	Strehlman, Benjamin G.	104
Schreiber, Ruth	106	Strickland, Leonard N.	102
Schrieker, James Louis, Jr.	107	Stritar, Joseph	21, 59, 60
Schwab, Sidney I.	8, 66, 69, 70	Stroud, C. Malone	18, 63
Schwartz, Alfred S.	30, 80	Stutsman, A. Chesterfield	25, 77
Schwartz, Ernest	107	Sulkin, S. Edward	23, 59, 60
Schwartz, Frederick O.	12, 76, 77	Summers, Joseph S., Jr.	104
Schwartz, Henry G.	21, 72	Suntzeff, Valentina	31
Schwartzman, Bernard	30, 80	Sutherland, Earl W., Jr.	101, 105
Schwarz, Henry II	105	Sweetman, Homer A.	106
Schwarz, Otto Henry 6, 33, 34, 77, 78, 79	106	Tabankin, Alvin	107
Schweitzer, Fred C.	106	Tatum, Frank K.	105
Scott, Gordon H.	10, 56, 57	Taussig, Albert E.	9, 63, 65
Scott, Wendell G.	14, 76	Taussig, Barrett	20, 63, 64
Scrivner, Willard C.	25, 77, 78	Taussig, Frederick J.	8, 77, 79
Seddon, John	27, 63, 64	Taylor, Mary K.	33, 34, 35
Seelig, Major G.	8, 33, 72	Teixler, Victor A.	102
Seib, George	13, 56	Terry, Luther L.	23, 63
Seibel, Marshall	21, 63, 66	Terry, Robert J.	6, 33, 41, 56
Seidler, William A.	107	Thieme, Harry L.	26, 72, 75
Senne, Herbert C.	100	Thoma, John W. R.	100
Senturia, Ben H.	28, 77	Thompson, Lawrence D.	12, 63
Shaffer, Philip A.	6, 33, 34, 58	Thornton, Robert L.	11, 76
Shahan, Philip T.	101, 106	Throop, George R.	6, 33
Shahan, William E.	8, 76	Thurlow, Alfred A., Jr.	107
Shank, Robert E.	100	Tigert, Allen H.	100
Shapleigh, Alfred L.	5	Tillman, Walter W.	106
Shaw, Carvel T.	107	Todd, Gordon M.	101, 107
Shefts, Lawrence M.	30, 72	Tomlinson, William L.	104
Sherman, Allen	102	Tompkins, Anne	105
Shier, Julius M.	105	Topp, William L.	105
Shobe, Frank O.	106	Towers, Orville W.	100
Showalter, John R.	106	Trotter, Mildred	10, 56
Sieber, Edward H.	30, 77	Tsuchiya, Hiromu	19, 59, 60
Silberberg, Martin	15	Tucker, Charles A.	102
Singleton, Walter J.	102	Tureen, Louis L.	15, 66, 69, 70
Skilling, David M., Jr.	25, 63	Uhlemeyer, Henry A., Jr.	107
Skinner, Ben S.	103	Urban, Frank	13, 58
Skinner, John S.	103	Van Deventer, James K.	100
Skinner, John T.	100	Van Scholack, T. W.	34, 36
Slee, Vergil N.	101, 105	Varney, Hewitt I.	22, 66, 68, 69
Slind, Ole, Jr.	103	Varney, Philip L.	14, 59, 60, 61
Slusser, Gerald A.	30, 61, 100	Veeder, Borden S.	8, 80, 81
Smit, Herbert	26, 77	Vermillion, Crofford O.	107
Smith, Dudley R.	18, 77, 78, 79	Votaw, Robert	19, 77
Smith, Elsworth S.	8		
Smith, Garland F.	105		
Smith, Hugh R., Jr.	100		

PAGE	PAGE		
Wachter, H. Ewing	23, 80	Willett, Joseph C.	23, 60
Wagenfuhr, Antoinette	32, 80	Williams, Charles S.	105
Waggoner, Roy E.	102	Williams, Elizabeth C.	102
Walker, Howard S. J.	105	Williams, George D.	12, 56
Wall, Walton B.	104	Williams, Guy H.	102
Wallace, Harry B.	5	Williams, James C.	105
Wallace, Mrs. Harry B.	36	Wilson, Christopher B.	107
Wallace, Samuel H., Jr.	100	Wilson, Keith S.	26, 63, 64
Walton, Franklin E.	6, 20, 34 72, 73, 74, 75	Wilson, Kenneth O.	26, 72, 75
Wasserman, Helman C.	27, 77	Wise, Robert J.	107
Wathen, Charles B.	104	Wissmath, Frank Sum	107
Watkins, George L.	106	Withers, Martin S.	101, 106
Watkins, Mrs. Horton	36	Wittler, Harry A.	107
Wattenberg, Carl A.	30, 72	Wolff, Dorothy	14, 77
Weaver, Jack D.	106	Woll, Maurice	100
Weaver, Jerome A.	100, 106	Womack, Nathan A.	11, 34, 72 73, 74, 75
Weber, Joseph H.	106	Womble, James G.	105
Wegner, Carl R.	17, 77, 78, 79	Woodruff, Frederick E.	10, 76
Weiss, Richard	12, 71	Woodriddle, Wilfred E.	107
Welch, Arnold DeM.	20, 62, 63, 100	Wootten, Betsy G.	104
Wells, Flora R.	36	Workman, J. B.	22, 76
Wheeler, Paul	21, 61	Wright, Sydney T.	63, 104
White, Abraham G.	106	Wulff, George	26, 77, 78
White, Charles O.	100	Yanow, Mitchell	105
White, Harvey L.	9, 58	Yarbrough, Charles L.	105
White, Park J.	16, 80, 82	Yore, Richard W.	107
Whitehorn, John C.	7, 33, 34 64, 66, 68, 69	Young, Robert H.	104
Whitfield, Frederick S., Jr.	100	Zander, Ernst	100
Whitlock, Gerald F.	105	Zell, Augustine B.	106
Whitson, Betty	105	Zentay, Paul J.	16, 80
Wickstrom, Otto W.	102	Zilgitt, George H.	100
Wiener, Meyer	9, 76, 77	Zink, Oscar C.	17, 76
Wiley, Horace M.	104	Zumbalen, Joseph H.	5, 34
Wilhelmi, Otto J.	18, 72		

INDEX

	PAGE		PAGE
Admission		Loan Fund	48
Requirements for	42	McMillan Hospital and Oscar	
to Advanced Standing	43	Johnson Institute	35
to Graduate Courses	45	Medical Economics	82
Alphabetical List of Names	108	Medical Jurisprudence	82
Anatomy	56	Military Science and Tactics	81
Assistantships	48		
		Neuropsychiatry	66
Bacteriology and Immunology	59	Obstetrics and Gynecology	77
Barnes Hospital	35	Officers	
Biological Chemistry	58	Business and Other	34
		Government and Instruction	6
Calendar	3	Ophthalmology	76
Clinical Facilities	39	Otolaryngology	77
Committees	33	Pathology	61
Corporation, The	5	Pediatrics	80
Courses		Pharmacology	62
Post-Graduate	83	Physical Therapeutics	82
Schedule of	85	Physiology	58
Curriculum	55	Prizes	47
		Professional Conduct	82
Degrees		Public Health	60
Conferred in June, 1939	99		
Requirements for	46	Radiology	76
Dermatology	71	Registration	50
Dormitory	52	Robert J. Terry Lectureship	41
		Scholarships	48
Executive Faculty	33	Social Service Department	35
Expenses	52	St. Louis Children's Hospital	35
		St. Louis City Hospitals	36
Fees	50	St. Louis Maternity Hospital	36
Fellowships	48	Standing and Promotion	45
		Stomatology	82
Historical Statement	37	Students	
Hospital Appointments	47	Roster of	102
		Surgery	72
Instruction			
General Plan of	53	University Clinics	36
Internal Medicine	63		
Leo Loeb Lectureship	41		
Library	41		



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