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BULLETIN
of
WASHINGTON UNIVERSITY
SAINT LOUIS



SCHOOL OF MEDICINE

DECEMBER 31, 1938

PUBLICATIONS OF WASHINGTON UNIVERSITY
SERIES II VOLUME XXXVII NUMBER I

Washington University

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

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

- I. The College of Liberal Arts (Skinker Road and Lindell Boulevard)
Walter E. McCourt, A.M., Dean
 - II. The School of Engineering (Skinker Road and Lindell Boulevard)
Alexander S. Langsdorf, M.M.E., Dean
 - III. The School of Architecture (Skinker Road and Lindell Boulevard)
Alexander S. Langsdorf, M.M.E., Dean
 - IV. The School of Business and Public Administration
(Skinker Road and Lindell Boulevard)
Isidor Loeb, LL.B., Ph.D., LL.D., Dean
 - V. The Henry Shaw School of Botany (2315 Tower Grove Avenue)
George T. Moore, Ph.D., Director
 - VI. The School of Graduate Studies
(Skinker Road and Lindell Boulevard)
Frederick W. Shipley, Ph.D., LL.D., Litt.D., Dean
 - VII. The School of Law (Skinker Road and Lindell Boulevard)
Joseph A. McClain, Jr., A.B., LL.B., J.S.D., Dean
 - VIII. The School of Medicine (Kingshighway and Euclid Avenue)
Philip A. Shaffer, Ph.D., Dean
 - IX. The School of Dentistry (4559 Scott Avenue)
Benno E. Lischer, D.M.D., Dean
 - X. The School of Nursing (416 S. Kingshighway)
Ruth Ingram, A.M.,¹ Director
Lucy F. Hoblitzelle, M.A., Acting Director²
 - XI. The School of Fine Arts (Skinker Road and Lindell Boulevard)
Kenneth E. Hudson, B.F.A., Director
 - XII. The University College (Skinker Road and Lindell Boulevard)
Frank M. Debatin, A.M., Dean
 - XIII. The Summer School (Skinker Road and Lindell Boulevard)
Isidor Loeb, LL.B., Ph.D., LL.D., Director
-

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

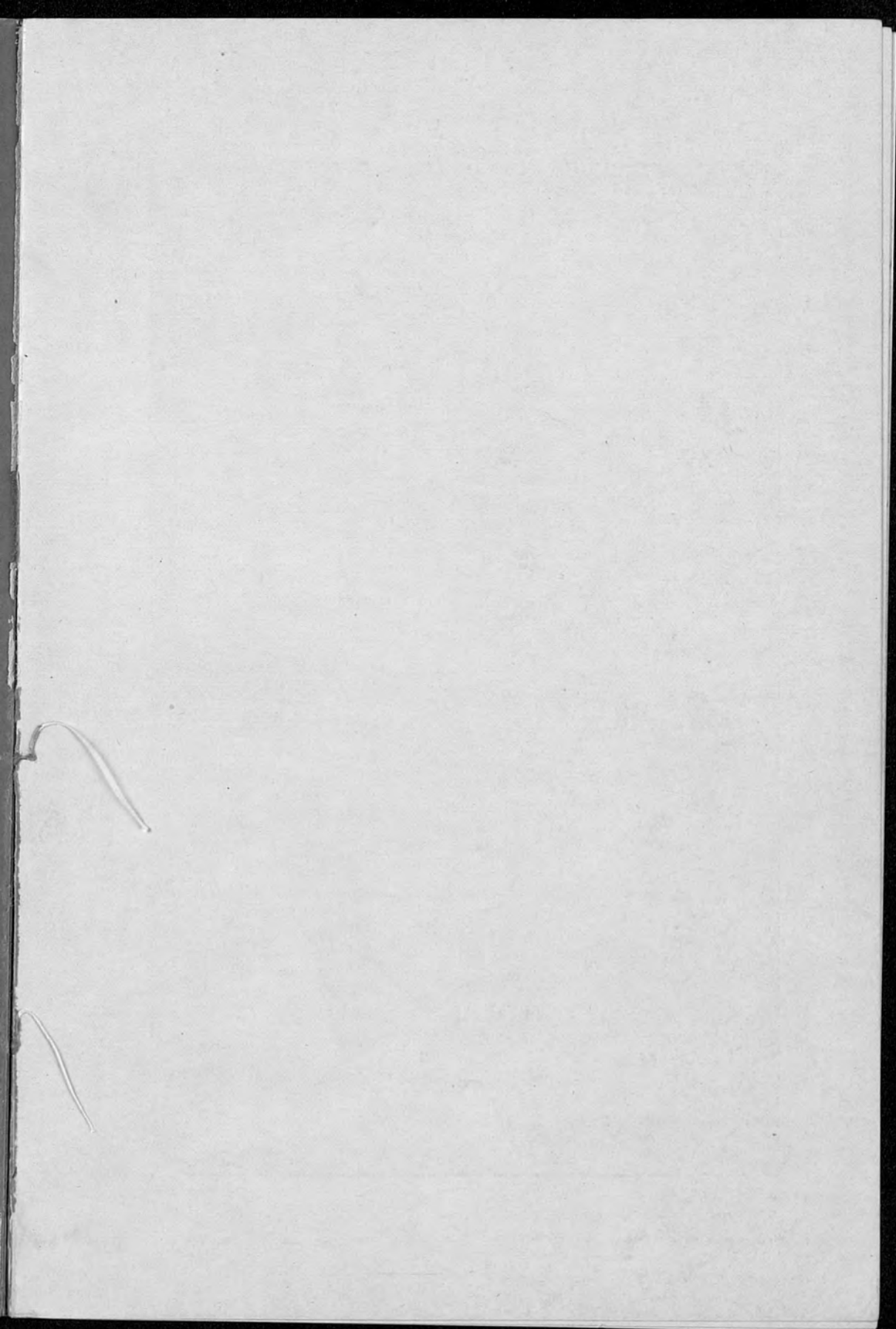
Mary Institute—A Preparatory School for Girls

(Ladue and Warson Roads)

Charles H. Garrison, A.B., Principal

¹ Resigned December 16, 1938.

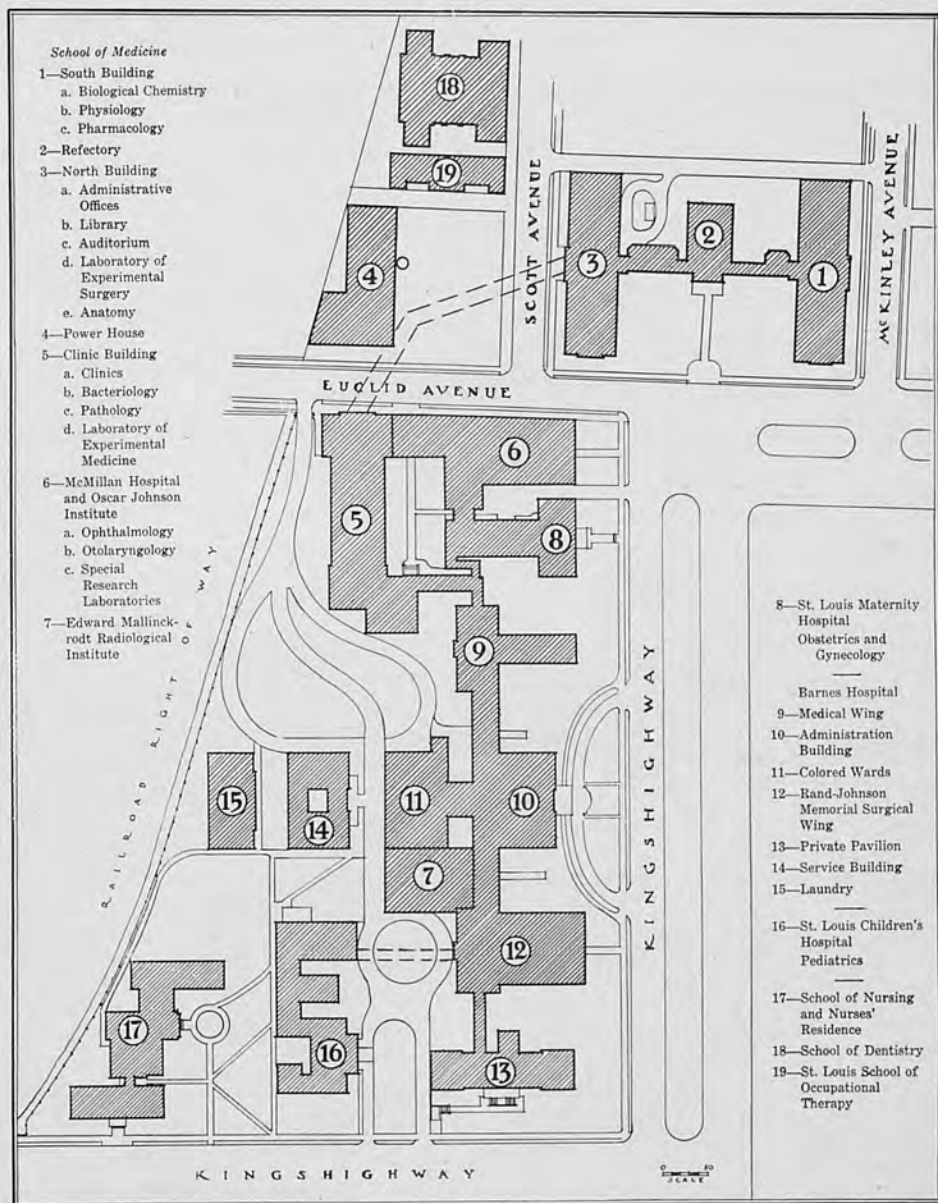
² Effective December 16, 1938.



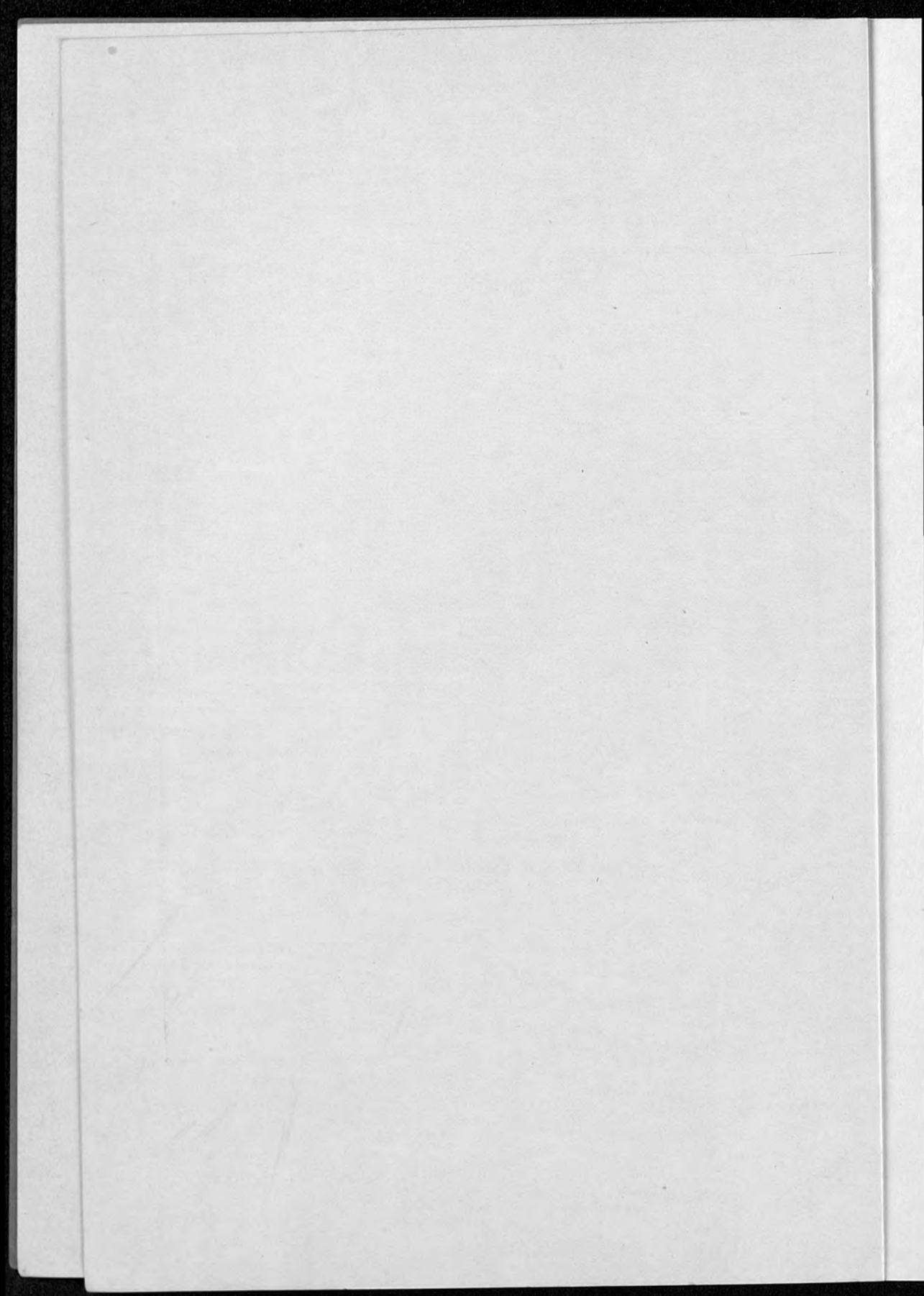


WASHINGTON UNIVERSITY MEDICAL GROUP

"Papin Aerial Surveys", St. Louis



Block Plan of Washington University Medical Group and School of Dentistry



BULLETIN
of
WASHINGTON UNIVERSITY
SAINT LOUIS



SCHOOL OF MEDICINE

DECEMBER 31, 1938

PUBLICATIONS OF WASHINGTON UNIVERSITY
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Published two times a month, January to June, inclusive and once a month, July to December, inclusive, by Washington University, St. Louis, Mo. Entered as second-class matter in the Post-Office at St. Louis, Mo. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized on June 29, 1918.

CALENDAR

1939

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

MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6							1	2	3					1		1	2	3	4	5	
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21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30	31		
														30	31												

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

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	1	2	..	1	2	3	4	5	6	..	1	2	3	4	5	6
7	8	9	10	11	12	13	4	5	6	7	8	9	10	3	4	5	6	7	8	9	7	8	9	10	11	12	13	
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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	2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
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26	27	28	29	30	31	..	23	24	25	26	27	28	29	28	29	30	31	25	26	27	28	29	30	31
..	30

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	3	4	5	6	7	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	..	..	..	..
..	

CALENDAR

1938-39

Registration, Tuesday, September 20, and Wednesday, September 21, 1938.

Examinations for Advanced Standing and Removal of Conditions, Monday, September 19, to Wednesday, September 21, 1938, inclusive.

Academic Year (First Trimester) begins Thursday, September 22, 1938.

Holiday, Thanksgiving Day, Thursday, November 24, 1938.

First Trimester ends Saturday, December 10, 1938.

Second Trimester begins Monday, December 12, 1938.

Christmas Recess, Friday, December 23, 1938, to Tuesday, January 3, 1939, inclusive.

Registration for Second Half-Year, Monday, January 30, 1939.

Holiday, Washington's Birthday, Wednesday, February 22, 1939.

Second Trimester ends Saturday, March 11, 1939.

Third Trimester begins Monday, March 13, 1939.

Holiday, Good Friday, April 7, and Saturday, April 8, 1939.

Third Trimester ends Saturday, May 27, 1939.

Final Examinations begin Monday, May 29, 1939.

Holiday, Decoration Day, Tuesday, May 30, 1939.

Commencement, Tuesday, June 6, 1939.

1939-40

Registration, Tuesday, September 26, and Wednesday, September 27, 1939.

Examinations for Advanced Standing and Removal of Conditions, Monday, September 25, to Wednesday, September 27, 1939, inclusive.

Academic Year (First Trimester) begins Thursday, September 28, 1939.

Holiday, Thanksgiving Day, Thursday, November ²³~~30~~, 1939.

First Trimester ends Saturday, December 16, 1939.

Second Trimester begins Monday, December 18, 1939.

Christmas Recess, Saturday, December 23, 1939 to Wednesday, January 3, 1940, inclusive.

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.

THE CORPORATION

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MALVERN BRYAN CLOPTON

First Vice-President

ROBERT MCKITTRICK JONES

Second Vice-President

HARRY BROOKINGS WALLACE

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BENJAMIN GRATZ	EUGENE DUTTON NIMS
HARRY BROOKINGS WALLACE	ERNEST WILLIAM STIX
WILLIAM HENRY DANFORTH	WILSON LINN HEMINGWAY
DANIEL KAYSER CATLIN	LEMUEL RAY CARTER

Treasurer, and Secretary to the Corporation

JOSEPH HENRY ZUMBALEN

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

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.

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 to 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 to Barnes and St. Louis Children's Hospitals.
A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904.

ROBERT JAMES TERRY *Professor of Anatomy*
Anthropologist to 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 to Barnes and St. Louis Children's Hospitals; Surgeon to
St. Louis Maternity Hospital; Surgeon in Chief to Outpatients, University Clinics.
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 to Barnes Hospital; Physician to St. Louis Maternity Hos-
pital; Physician in Chief to Outpatients, University Clinics; Consulting Physician
to St. Louis City 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 to Barnes and St. Louis Maternity
Hospitals; Gynecologist to St. Louis Children's Hospital; Obstetrician and Gyne-
cologist in Chief to Outpatients, University Clinics.
M.D., Washington University, 1913.

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

¹ Arranged in groups in order of appointment, as of December 10, 1938.

- LEE WALLACE DEAN . . . *Professor Emeritus of Otolaryngology and Head of the Department*
Otolaryngologist in Chief to Barnes Hospital; Otolaryngologist to St. Louis Children's and St. Louis Maternity Hospitals; Otolaryngologist in Chief to Outpatients, University Clinics.
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 to 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 to Barnes Hospital; Associate Otolaryngologist to 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 to Barnes Hospital; Ophthalmologist to St. Louis Children's and St. Louis Maternity Hospitals; Ophthalmologist in Chief to Outpatients, University Clinics; Visiting Surgeon to St. Louis City 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 to St. Louis Children's Hospital; Pediatrician in Chief to St. Louis Maternity Hospital; Pediatrician in Chief to Outpatients, University Clinics.
B.S., Washington University, 1919; M.S., 1921; M.D., 1921.
- HOWARD ANDERSON MCCORDOCK¹ *Edward Mallinckrodt Professor of Pathology*
Pathologist to Barnes, St. Louis Children's and St. Louis Maternity Hospitals.
B.S., University of Buffalo, 1921; M.D., 1923.
- JEAN VALJEAN COOKE *Professor of Pediatrics*
Associate Physician to St. Louis Children's Hospital; Associate Pediatrician to St. Louis Maternity Hospital; Physician to Outpatients, 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 to Barnes and St. Louis Children's Hospitals; Psychologist to Outpatients, University Clinics.
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 to Barnes Hospital; Neurologist to St. Louis Children's and St. Louis Maternity Hospitals; Physician to Outpatients, University Clinics.
A.B., Butler College, 1920; M.D., Johns Hopkins University, 1924.
- JOHN CLARE WHITEHORN *Professor of Psychiatry*
Psychiatrist in Chief to Barnes Hospital; Psychiatrist to St. Louis Children's and St. Louis Maternity Hospitals; Physician to Outpatients, University Clinics; Visiting Physician to St. Louis City Hospital.
A.B., Doane College, 1916; M.D., Harvard University, 1921.
- ARTHUR LLEWELYN HUGHES *Consulting Physicist*
B.Sc., Liverpool University, 1906; M.Sc., 1907; B.A., Cambridge University, 1910; D.Sc., 1912.
- LOUIS HERBERT BURLINGHAM *Lecturer on Hospital Administration*
Superintendent of Barnes Hospital.
A.B., Yale University, 1902; M.D., Johns Hopkins University, 1906.

¹ Died November 13, 1938.

- JOHN VINCENT LAWRENCE *Director of University Clinics and Assistant Professor of Medicine*
 Assistant Physician to Barnes Hospital; Physician to Outpatients, University Clinics.
 B.S., University of Chicago, 1917; M.D., Rush Medical College, 1924.
- ELSWORTH STRIKER SMITH . . *Professor Emeritus of Clinical Medicine*
 Assistant Physician to 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 to Barnes and St. Louis Maternity Hospitals; Consultant in Gynecology to St. Louis Children's Hospital.
 M.D., Washington University, 1892.
- HUGO EHRENFEST *Professor Emeritus of Clinical Obstetrics and Gynecology*
 Associate Obstetrician and Gynecologist to Barnes Hospital; Consultant in Obstetrics and Gynecology to St. Louis Maternity Hospital.
 M.D., University of Vienna, 1894.
- MARTIN FEENEY ENGMAN *Professor of Clinical Dermatology*
 Dermatologist to 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 to St. Louis Maternity Hospital; Consulting Physician to St. Louis Children's Hospital.
 M.D., University of Pennsylvania, 1907.
- SIDNEY ISAAC SCHWAB *Professor of Clinical Neurology*
 Neurologist to Barnes and St. Louis Maternity Hospitals; Consulting Neurologist to St. Louis Children's Hospital; Physician to Outpatients, University Clinics.
 M.D., Harvard University, 1896.
- ERNEST SACHS *Professor of Clinical Neurological Surgery*
 Associate Surgeon to Barnes and St. Louis Children's Hospitals; Consulting Surgeon to 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 to Barnes Hospital.
 A.B., Harvard University, 1896; M.D., Columbia University, 1900.
- WILLIAM EWING SHAHAN *Professor of Clinical Ophthalmology*
 Associate Ophthalmologist to Barnes Hospital; Consulting Ophthalmologist to 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 to Barnes and St. Louis Maternity Hospitals.
 A.B., Harvard University, 1893; M.D., St. Louis Medical College, 1898.
- JOHN ROBERTS CAULK¹ . . *Professor of Clinical Genitourinary Surgery*
 A.B., St. John's College, 1901; A.M., 1912; M.D., Johns Hopkins University, 1906.
- VILRAY PAPIN BLAIR *Professor of Clinical Surgery*
 Associate Surgeon to Barnes and St. Louis Children's Hospitals; Consulting Surgeon to St. Louis Maternity Hospital.
 A.M., Christian Brothers College, 1890; M.D., Washington University, 1893.
- MALVERN BRYAN CLOPTON *Professor of Clinical Surgery*
 Associate Surgeon to Barnes and St. Louis Maternity Hospitals; Consulting Surgeon to St. Louis Children's Hospital.
 M.D., University of Virginia, 1897.

¹ Died October 13, 1938.

ALBERT ERNEST TAUSSIG *Professor of Clinical Medicine*
 Assistant Physician to Barnes Hospital; Consulting Physician to 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 to Barnes Hospital; Consulting Ophthalmologist to 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 to Barnes and St. Louis Children's Hospitals; Consulting Surgeon to St. Louis Maternity Hospital; Visiting Surgeon to St. Louis City Hospital; Surgeon to Outpatients, University Clinics.
 M.D., Johns Hopkins University, 1918.

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

QUITMAN UNDERWOOD NEWELL . . *Professor of Clinical Obstetrics and Gynecology*
 Associate Obstetrician and Gynecologist to Barnes and St. Louis Maternity Hospitals; Associate Gynecologist to 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 to Barnes and St. Louis Maternity Hospitals; Associate Otolaryngologist to St. Louis Children's Hospital; Consulting Surgeon to St. Louis City Hospital; Surgeon to Outpatients, University Clinics.
 A.B., Washington University, 1910; M.D., 1912.

VIRGIL LOEB *Lecturer in Stomatology*
 Stomatologist to St. Louis Children's and St. Louis Maternity Hospitals.
 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 to 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 to Barnes and St. Louis Maternity Hospitals; Consulting Physician to St. Louis City Hospital; Physician to Outpatients, University Clinics.
 A.B., Williams College, 1910; M.D., Columbia University, 1914.

WILLIAM FREDERIC HARDY *Associate Professor of Clinical Ophthalmology*
 Assistant Ophthalmologist to Barnes Hospital; Ophthalmologist to Outpatients, University Clinics.
 M.D., Washington University, 1901.

GLOVER H. COPHER *Associate Professor of Clinical Surgery*
 Assistant Surgeon to Barnes Hospital; Associate Surgeon to St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients, University Clinics.
 A.B., University of Missouri, 1916; M.D., Washington University, 1918.

WILLIAM HARWOOD OLMSTED *Associate Professor of Clinical Medicine*
 Assistant Physician to Barnes 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 to 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 to Barnes Hospital.
A.B., University of Kentucky, 1901; M.D., Johns Hopkins University, 1911.
- JOSEPH WILLIAM LARIMORE *Associate Professor of Clinical Medicine*
Assistant Roentgenologist to Barnes Hospital; Assistant Radiologist to St. Louis Children's Hospital.
A.B., DePauw University, 1908; M.D., Washington University, 1913.
- GORDON H. SCOTT *Associate Professor of Cytology*
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 A.B., University of Missouri, 1913; Sc.D., Johns Hopkins University, 1930.

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 Assistant Obstetrician and Gynecologist to Barnes and St. Louis Maternity Hospitals; Assistant Radiologist to St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Surgeon to St. Louis City Hospital.
 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 to Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician to St. Louis City Hospital.
A.B., Rice Institute, 1920; M.D., Vanderbilt University, 1924.
- EDWIN HENRY ROHLFING** *Instructor in Clinical Pediatrics*
Assistant Physician to St. Louis Children's Hospital; Assistant Pediatrician to St. Louis Maternity Hospital; Physician to Outpatients, University Clinics.
M.D., Washington University, 1919.
- MAX DEUTCH** *Instructor in Clinical Pediatrics*
Assistant Physician to St. Louis Children's Hospital; Assistant Pediatrician to St. Louis Maternity Hospital; Physician to Outpatients, University Clinics.
M.D., Washington University, 1926.
- FREDERICK AUGUST JACOBS** *Instructor in Clinical Pediatrics*
Assistant Physician to St. Louis Children's Hospital; Assistant Pediatrician to St. Louis Maternity Hospital; Physician to Outpatients, University Clinics.
B.S., Washington University, 1927; M.D., 1928.
- LEO GOTTLIEB** *Instructor in Clinical Medicine*
Assistant Physician to Barnes Hospital; Physician to Outpatients, University Clinics.
A.B., University of Kansas, 1928; A.M., 1932; M.D., Washington University, 1932.
- ALFRED D. HERSHEY** . . . *Instructor in Bacteriology and Immunology*
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B.S., Washington University, 1928; M.D., 1930.
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- JOSEPH CABELL JAUDON** *Instructor in Clinical Pediatrics*
Assistant Physician to St. Louis Children's Hospital; Assistant Pediatrician to St. Louis Maternity Hospital.
A.B., Washington University, 1926; M.D., 1933.
- EDGAR S. HILL** *Instructor in Biological Chemistry*
B.S., University of Kentucky, 1927; M.S., University of Cincinnati, 1929; Ph.D., 1931.
- LOUIS LEON TUREN** *Instructor in Clinical Neurology*
Assistant Neurologist to Barnes Hospital; Visiting Physician to St. Louis City Hospital.
B.S., Washington University, 1925; M.D., 1927.
- FRANKLIN EDWARD WALTON** *Instructor in Clinical Surgery*
Assistant Surgeon to Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon to St. Louis City Hospital.
B.S., Shurtleff College, 1923; M.D., Washington University, 1927.
- MARION CLAIRE MORRIS** . . *Instructor in Bacteriology and Immunology*
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- MELVIN ANDREW ROBLEE** *Instructor in Clinical Obstetrics and Gynecology*
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B.S., Washington University, 1923; M.D., 1925.
- KEVIN CHARLES MORRIN** *Instructor in Clinical Obstetrics and Gynecology*
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M.B., B.Ch., National University of Ireland, 1921.

- SOL LONDE *Instructor in Clinical Pediatrics*
Assistant Physician to St. Louis Children's Hospital; Assistant Pediatrician to St. Louis Maternity Hospital; Assistant Physician to Outpatients, University Clinics.
B.S., Washington University, 1925; M.D., 1927.
- ADOLPH CHARLES LANGE *Instructor in Clinical Ophthalmology*
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B.S., Washington University, 1928; M.D., 1930.
- JAY CRAWFORD *Instructor in Clinical Ophthalmology*
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A.B., Mifflintown Academy, 1902; B.S., Spring Garden Institute, 1905; M.D., Temple Medical College, 1906.
- BARRETT LEARNED TAUSSIG *Instructor in Clinical Medicine*
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A.B., Harvard University, 1928; M.D., Washington University, 1932.
- BRIAN BREWER BLADES *Instructor in Clinical Surgery*
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A.B., University of Kansas, 1928; M.D., Washington University, 1932.
- RUSSELL JOHN BLATTNER *Instructor in Pediatrics*
Assistant Physician to St. Louis Children's Hospital; Assistant Pediatrician to St. Louis Maternity Hospital.
A.B., Washington University, 1929; M.D., 1933.
- ROBERT WATKINSON HUNTINGTON¹ *Instructor in Pediatrics*
A.B., Yale University, 1928; M.D., 1933.
- BRUCE DELOZIER KENAMORE *Instructor in Clinical Medicine*
Physician to Outpatients, University Clinics.
A.B., Washington University, 1933; M.D., 1935.
- JOSEPH DUDLEY GREAVES *Instructor in Biological Chemistry*
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- HENRY GERARD SCHWARTZ *Instructor in Clinical Neurological Surgery*
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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*
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A.B., Ouachita College, 1927; M.D., Washington University, 1931.
- MARSHALL G. SEIBEL *Instructor in Clinical Medicine*
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B.S., University of Missouri, 1927; M.D., University of Louisville, 1929.
- THEODORE EUGENE SANDERS *Instructor in Ophthalmology*
Assistant Ophthalmologist to Barnes and St. Louis Children's Hospitals; Ophthalmologist to Outpatients, University Clinics; Visiting Surgeon to St. Louis City 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*
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- AUBREY CRAFTON GOSE *Instructor in Pathology*
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- CHARLES LEE HOAGLAND *Instructor in Medicine*
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- JOSEPH STRITAR *Instructor in Bacteriology and Immunology*
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Assistant Ophthalmologist to Barnes Hospital.
M.D., St. Louis University, 1905.
- THOMAS B. POTE *Lecturer in Pathology*
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- EDGAR VAN NORMAN EMERY *Lecturer in Psychiatry*
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1930; B.N., Yale University, 1935.
- 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.

ASSISTANTS

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B.S., Valparaiso University, 1910; M.D., St. Louis University, 1914.
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Assistant Otolaryngologist to Barnes and St. Louis Children's Hospitals.
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- WILLIAM GEORGE BECKE *Assistant in Clinical Medicine*
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EDWARD LAWRENCE KEYES, JR. . . . *Assistant in Clinical Surgery*

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B.S., Princeton University, 1921; M.D., Cornell University, 1926.

GRACE MEHTEN . . . *Assistant in Applied Bacteriology in Medicine*

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Assistant Physician to Barnes Hospital.

B.S., Washington University, 1928; M.D., 1930.

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M.D., St. Louis University, 1927.
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M.D., Washington University, 1928.
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B.S., Tri-State College, 1929; B.S., Purdue University, 1934.
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M.D., Washington University, 1934.
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- KURT MANSBACHER *Assistant in Clinical Medicine*
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M.D., Friedrich-Wilhelms University, 1919.
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- ROY LOUIS KILE *Assistant in Clinical Dermatology*
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- HERBERT M. SMIT** *Assistant in Clinical Otolaryngology*
Assistant Otolaryngologist to Barnes and St. Louis Children's Hospitals; Assistant Surgeon to Outpatients, University Clinics.
M.D., St. Louis University, 1933.
- 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 to 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*
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A.B., Johns Hopkins University, 1928; M.D., Washington University, 1932.
- STEPHEN STUART ELLIS** *Assistant in Surgery*
Assistant Resident Surgeon to Barnes Hospital.
A.B., Washington University, 1932; M.D., 1936.
- AXEL GRONAU** *Assistant in Bacteriology and Immunology*
M.D., University of Naples, 1935.
- HEINZ HAFFNER** *Assistant in Surgery*
Assistant Resident Surgeon to Barnes Hospital.
B.S., University of Arizona, 1931; M.D., Washington University, 1935.
- ALVAH GERRIT HEIDEMAN** *Assistant in Clinical Surgery*
Voluntary Assistant in Surgery to Barnes Hospital.
M.D., Washington University, 1926.
- HERMAN HUTTO** *Assistant in Obstetrics and Gynecology*
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Assistant Resident Surgeon to Barnes Hospital.
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Assistant Ophthalmologist to Barnes and St. Louis Children's Hospitals; Assistant Ophthalmologist to Outpatients, University Clinics; Visiting Surgeon to St. Louis City Hospital.
M.D., Washington University, 1934.

- JOHN WICKHAM SEDDON *Assistant in Clinical Medicine*
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M.D., Washington University, 1930.
- KARL FREDERICK KOENIG *Assistant in Clinical Medicine*
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B.S., University of Illinois, 1923; M.D., Washington University, 1931.
- THEODOR ENGELMANN KIRCHER, JR. *Assistant in Bacteriology and Immunology*
A.B., Yale University, 1933; M.D., Washington University, 1937.
- HAROLD SCHEFF *Assistant in Clinical Medicine*
Physician to Outpatients, University Clinics.
M.D., University of Toronto, 1931.
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A.B., University of Kansas, 1932; M.D., Tulane University, 1936.
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M.D., Washington University, 1935.
- JAMES HOWARD BRYAN *Assistant in Ophthalmology*
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A.B., University of Missouri, 1931; B.S., 1933; M.D., Yale University, 1936.
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- EMMETT BURK DRESCHER *Assistant in Surgery*
Assistant Resident Surgeon to Barnes Hospital.
A.B., Washington University, 1932; M.D., 1936.
- ALFRED ADOLPH GELLHORN *Assistant in Surgery*
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M.D., Washington University, 1937.
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 Resident Ophthalmologist to Barnes Hospital.
 A.B., University of Oklahoma, 1930; M.D., Washington University, 1934.
- CORNELIUS SHEPHERD MEEKER² *Assistant in Pathology*
 A.B., Illinois College, 1933; M.D., Washington University, 1938.
- FRANK ANDREW MORRISON *Assistant in Obstetrics and Gynecology*
 Assistant Resident Obstetrician and Gynecologist to Barnes and St. Louis
 Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, Uni-
 versity Clinics.
 B.S., University of Nebraska, 1935; M.D., 1936.
- ALEXANDER ADO MUELLER² *Assistant in Pathology*
 M.D., Washington University, 1938.
- ELEANOR JOHNSON RECTOR *Assistant in Pediatrics*
 Resident Physician to St. Louis Children's Hospital.
 B.S., University of Washington, 1931; M.S., 1932; M.D., Washington Univer-
 sity, 1936.
- FRANK WALKER REYNOLDS² *Assistant in Medicine*
 Assistant Resident Physician to Barnes Hospital.
 A.B., Colgate University, 1933; M.D., University of Rochester, 1937.
- BEN HARLAN SENTURIA *Assistant in Clinical Otolaryngology*
 Assistant Otolaryngologist to Barnes and St. Louis Children's Hospitals;
 Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon to St.
 Louis City Hospital.
 A.B., Washington University, 1931; M.D., 1935.
- JOHN HARRISON WEDIG² *Assistant in Pathology*
 M.D., Washington University, 1938.
- RAY DAVID WILLIAMS *Assistant in Medicine*
 Assistant Resident Physician to Barnes Hospital.
 A.B., Hampden-Sydney College, 1930; M.S., Emory University, 1931; M.D.,
 Washington University, 1937.
- NORMAN JAMES WILSON *Assistant in Medicine*
 Assistant Resident Physician to Barnes Hospital.
 B.S., University of Maryland, 1932; M.D., 1935.
- FRANK MAHLON WOOLSEY, JR. *Assistant in Pathology*
 B.S., Duke University, 1938; M.D., 1938.
- 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 Resident Obstetrician and Gynecologist to Barnes and St. Louis
 Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients,
 University Clinics.
 A.B., Wayne University, 1933; M.D., University of Michigan, 1936.
- HEWITT IRVING VARNEY *Assistant in Psychiatry*
 Assistant Psychiatrist to Barnes Hospital; Physician to Outpatients, Univer-
 sity Clinics.
 M.D., University of Vermont, 1935.

¹ Resigned October 1, 1938.

² July 1 to December 31, 1938.

- JOSEPH CASTRO EDWARDS *Assistant in Medicine*
A.B., University of Oklahoma, 1930; M.D., Harvard University, 1934.
- JOHN A. DOUBLY *Assistant in Bacteriology and Immunology*
A.B., Ohio Wesleyan University, 1930; M.S., Washington University, 1933.
- HELEN MARGARET AFF *Assistant in Clinical Pediatrics*
Assistant Physician to St. Louis Children's Hospital; Assistant Pediatrician
to St. Louis Maternity Hospital.
B.S., Washington University, 1934; M.D., 1934.
- DOROTHY JEANNETTE JONES *Assistant in Clinical Pediatrics*
Assistant Physician to St. Louis Children's Hospital; Assistant Pediatrician
to St. Louis Maternity Hospital.
A.B., Oberlin College, 1930; M.D., Washington University, 1934.
- HARRY EWING WACHTER *Assistant in Clinical Pediatrics*
Assistant Physician to St. Louis Children's Hospital; Assistant Pediatrician
to St. Louis Maternity Hospital.
A.B., Washington University, 1929; M.D., 1933.
- CHARLES HENRY RAMMELKAMP, JR.¹ *Assistant in Medicine*
Assistant Resident Physician to Barnes Hospital.
M.D., University of Chicago, 1937.
- OSCAR PERRY HAMPTON, JR. *Assistant in Clinical Orthopedic Surgery*
Visiting Surgeon to St. Louis City Hospital.
M.D., University of Tennessee, 1928.
- MAURICE BERNARD ROCHE *Assistant in Clinical Orthopedic Surgery*
Visiting Surgeon, St. Louis City Hospital.
M.D., St. Louis University, 1933.
- FRANK MICHAEL PETKEVICH¹ *Assistant in Pathology*
M.D., University of Chicago, 1937.

FELLOWS AND RESEARCH ASSISTANTS

- RAYMOND RAY LANIER, JR. *Fellow in Anatomy*
A.B., University of Richmond, 1935.
- HENRY WIGDERSON² *Fellow in Neurological Surgery*
Voluntary Assistant in Surgery to Barnes Hospital.
B.S., College of the City of New York, 1926; M.A., Columbia University, 1927;
M.D., University of Maryland, 1931.
- SAMUEL J. HAYWARD *Research Assistant in Pathology*
- VALENTINA SUNTZEFF *Research Assistant in Pathology*
M.D., Women's Medical Institute, Petrograd, Russia.
- MARIAN MOSKOP KIRTZ *Research Assistant in Pathology*
A.B., Washington University, 1934.
- JANE BURNS *Research Fellow in Applied Bacteriology in Pediatrics*
B.S., University of Washington, 1933; M.S., 1937.
- EDGAR E. HITCHCOCK *Research Fellow in Pediatrics*
M.D., University of Georgia, 1935.
- MARY B. RUHOFF *Research Assistant in Applied Chemistry in Pediatrics*
A.B., Wellesley College, 1930.
- HENRY F. SAUNDERS *Research Fellow in Pediatrics*
M.D., University of Toronto, 1936.
- CHING-SUNG CHANG *Research Fellow in Otolaryngology*
B.S., Yenching University, 1928; M.D., Peiping Union Medical College, 1932.
- GERHARD SCHMIDT *Research Assistant in Pharmacology*
M.D., University of Freiburg, 1926.
- R. STUART BABCOCK *Research Assistant in Pathology*
A.B., Washington University, 1937.

¹ Effective January 1, 1939.² To March 31, 1939.

OFFICERS AND COMMITTEES OF THE FACULTY OF THE SCHOOL OF MEDICINE

EXECUTIVE FACULTY

GEORGE REEVES THROOP, *Bridge Chancellor*

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DAVID P. BARR

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JACQUES J. BRONFENBRENNER

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JOHN V. LAWRENCE

ALEXIS F. HARTMANN

HOWARD A. MCCORDOCK¹

DAVID McK. RIOCH

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 COMMITTEES²

MEDICAL EDUCATION

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

LIBRARY

Dr. Cori (*Chairman*), Drs. Alexander, Seelig.

BARNES HOSPITAL

Dr. Burlingham (*Chairman*), Drs. Barr, Graham, Dean, Schwarz, Post.

ST. LOUIS CHILDREN'S HOSPITAL

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

ST. LOUIS MATERNITY HOSPITAL

Dr. Schwarz (*Chairman*), Drs. Graham, Hartmann, Mrs. Keith.

EDWARD MALLINCKRODT INSTITUTE OF RADIOLOGY

Dr. Moore (*Chairman*), Drs. Graham, Shaffer, 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, Burlingham, Dean, Lawrence, Post, Clopton, Lohr, Misses Taylor, Ingram.

The *Advisory Board of the Clinics* is composed of the chiefs of each of the clinics and the Director of Social Service Department, Washington University Clinics and Allied Hospitals.

¹ Died November 13, 1938.

² 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, Burlingham, Mrs. Holland, Miss Taylor, Mrs. Stoner, Mr. Van Schoiack, Dr. Copher.

ST. LOUIS CITY HOSPITAL

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

GRADUATE INSTRUCTION

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

STUDENT HEALTH

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

BUSINESS OFFICERS OF THE UNIVERSITY

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Treasurer and Secretary to the Corporation

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Purchasing Agent, and Manager, University Stores

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ANN DUEKER *Assistant Bursar*

ROSE FALLENSTEIN *Manager, McMillan Hall and Cafeterias*

DONALD MORRISON *Superintendent, Buildings and Grounds*

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Assistant Purchasing Agent

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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. *Alumni Representative*

KARL FREDERICK KOENIG, B.S., M.D. *Resident Physician*

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

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

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MR. JAMES LEE JOHNSON

MRS. JOSEPH W. LEWIS

MRS. E. D. NIMS

DR. LAWRENCE POST, *ex officio*

DR. WILLIAM A. SHOEMAKER

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MR. ERNEST W. STIX

DR. FREDERICK E. WOODRUFF

DR. PHILIP A. SHAFFER, *ex officio*MR. W. B. PARKER, *Secretary**for the Board*

The operation of the McMillan Hospital is now limited to its outpatient departments, the hospital services in Ophthalmology and Otolaryngology being located in the Barnes and St. Louis Children's Hospitals.

The staffs of the outpatient departments are listed under the University Clinics. The staffs of the hospital services are listed under the 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

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Mrs. Claude S. Kennerly

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Mrs. Benjamin S. Lang

Mrs. Carl Langenberg

Mrs. Sears Lehmann

Mrs. Joseph W. Lewis

Mrs. E. Vernon Mastin

Mrs. Richard Morey

Mrs. Emmett Myers

Mrs. C. P. O'Fallon

Mrs. Aaron S. Rauh

Mrs. J. Herndon Smith

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Mrs. H. B. Wallace

Mrs. M. B. Wallace

Mrs. R. B. Wallace

Miss Dorothy J. Waltke

Mrs. Ira E. Wight

Mrs. Orion J. Willis

Mrs. Oliver F. Richards

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THE BARNES HOSPITAL

ADMINISTRATION

LOUIS H. BURLINGHAM, M.D.	<i>Superintendent</i>
FRANK R. BRADLEY, M.D.	<i>Assistant Superintendent</i>
EZRA L. EVANS, JR., M.D.	<i>Assistant Superintendent</i>
CORNELIA S. KNOWLES, R.N.	<i>Executive Assistant</i>
RUBY B. JAMES, R.N.	<i>Executive Assistant</i>
LILLY D. HOEKSTRA, R.N.	<i>Executive Assistant</i>

MEDICINE

Physician in Chief

David P. Barr

Associate Physician

Harry L. Alexander

Assistant Physicians

Elsworth S. Smith	C. Malone Stroud
Albert E. Taussig	Kenneth Glaze
Warren P. Elmer	Louis H. Hempelmann
Jerome E. Cook	Charles Duden
Walter Fischel	J. Ted Jean
Walter Baumgarten	Louis F. Aitken
William H. Olmsted	Elmer Richman
Drew W. Luten	Joseph Bredeck
Charles H. Eyermann	Cyril MacBryde
Frank D. Gorham	Marshall Seibel
Arthur E. Strauss	Lee B. Harrison
Alfred Goldman	Karl Koenig
Samuel B. Grant	Milton Smith
Lawrence D. Thompson	Thomas Findley
Anthony B. Day	Cecil M. Charles
Lee P. Gay	Albert H. Hamel
Lee D. Cady	Leon Bromberg
Harold A. Bulger	Edward Cannady
Llewellyn Sale	Harold Newman
John V. Lawrence	Barrett L. Taussig
William G. Becke	Leo Gottlieb
Hiram S. Liggett	John Seddon
Oliver Abel, Jr.	David Skilling
Harry W. Wiese	B. Y. Glassberg
William B. Kountz	Alan Eschenbrenner
Louis H. Behrens	Keith Wilson
Howard Rusk	John Smith
Julius Jensen	Paul Hageman

Resident

Edward Massie

Assistant Residents

Frank Reynolds	Ray D. Williams
Norman J. Wilson	Charles Rammelkamp

MEDICINE (Continued)

Interns

William Kaufman
John Lionberger
Arthur G. Ide
Daniel Glomset
William Rose
Italo D. Puppel
Marion Dakin
Robert Brookes

Artell E. Johnson
Eldred L. Gann
Robert W. Kelley
Frank M. Petkevich
James Burks
Harrison Wedig, Jr.
Alexander Mueller
Cornelius Meeker

SURGERY

Surgeon in Chief

Evarts A. Graham

Associate Surgeons

Ernest Sachs
Vilray P. Blair

Malvern B. Clopton
J. Albert Key

Assistant Surgeons

Arthur O. Fisher
Major G. Seelig
J. Edgar Stewart
Warren R. Rainey
Glover H. Copher
Dalton K. Rose
Charles A. Stone
Duff S. Allen
Roland M. Klemme
Theodore P. Brookes
James B. Brown
Frederick A. Jostes
J. Hoy Sanford
Otto J. Wilhelmi
Rogers Deakin

Robert Elman
Peter Heinbecker
Henry S. Brookes, Jr.
Nathan A. Womack
Clarence H. Crego, Jr.
Edward L. Keyes, Jr.
Franklin Walton
John Patton
Robert W. Bartlett
Leonard T. Furlow
Louis T. Byars
Brian Blades
H. Relton McCarroll
Bradford Cannon
Eugene Bucher

Voluntary Assistants

Alvah G. Heideman

Milan D. Baker

Voluntary Assistants, Neurosurgery

Henry Wigderson
Henry G. Schwartz

Alan S. Kerr

Resident

George B. Sanders

Assistant Residents

Heins Haffner
Frank McDowell
Stephen Ellis
Thomas H. Burford

Emmett B. Drescher
Alfred Gellhorn
Samuel Harbison
Carl Lischer

Interns

Harold Elliott
James F. Nolan
V. O. Lundmark
Joe M. Parker

Lawrence M. Shefts
Warren F. Smith
Carl A. Wattenberg

OBSTETRICS AND GYNECOLOGY

Consultant

Harry S. Crossen

Obstetrician and Gynecologist in Chief

Otto H. Schwarz

Associate Obstetricians and Gynecologists

Frederick J. Taussig
Grandison D. Royston
Quitman U. Newell

Hugo Ehrenfest
Frank P. McNalley
Charles D. O'Keefe

Assistant Obstetricians and Gynecologists

Adolph G. Schlosstein
Otto St. Clair Krebs
Richard Paddock
Robert J. Crossen
Grover B. Liese
T. Kenneth Brown
Dudley R. Smith
Charles Drabkin
Myron W. Davis
Franz Arzt
Melvin A. Roblee
Francis J. Canepa

Carl R. Wegner
John E. Hobbs
John B. O'Neill
Samuel D. Soule
Kevin C. Morrin
Willard C. Scrivner
Frances H. Stewart
A. Norman Arneson
Hans L. Kleine
Helman C. Wasserman
George J. L. Wulff

Residents

Herman Hutto

Arthur R. Bortnick

Assistant Residents

Frank A. Morrison
Hubert L. Allen

Morton R. Lazar

OTOLARYNGOLOGY

Otolaryngologist in Chief

Lee W. Dean

Assistant Otolaryngologists

Harry W. Lyman
Millard F. Arbuckle
Arthur W. Proetz
William L. Hanson
George E. Hourn
Arthur M. Alden
French K. Hansel
Bernard J. McMahon
James B. Costen
Louis E. Freimuth
Isaac D. Kelley, Jr.
Louis J. Birsner
Alfred J. Cone

Allen B. Potter
Helen Gage
Fred W. Scherrer
Robert E. Votaw
L. C. Boemer
Harry N. Glick
A. Chesterfield Stutsman
Lee W. Dean, Jr.
H. M. Smit
Guerdan Hardy
William Bryan
Ben H. Senturia

Assistant Residents

Raymond S. Rosedale
Paul Hearn

Thomas Wesson

OTOLARYNGOLOGY (Continued)

Interns

Edward H. Lyman
Herbert Martin
Leonard Rosenthal

Thomas M. Irwin
V. E. Cortopassi

Physicist

Cordia C. Bunch

OPHTHALMOLOGY

Ophthalmologist in Chief

Lawrence T. Post

Associate Ophthalmologists

William E. Shahan

Meyer Wiener

Assistant Ophthalmologists

William F. Hardy
Frederick E. Woodruff
Max W. Jacobs
M. Hayward Post
Frederick O. Schwartz
Bennett Y. Alvis
William M. James
Harvey D. Lamb
Howard R. Hildreth

Carl Beisbarth
Grover H. Poos
Roy E. Mason
William Meinberg
Adolph C. Lange
Alan D. Calhoun
E. B. Alvis
T. E. Sanders
Harry Rosenbaum

Resident

W. H. McKenzie

Assistant Resident

James Bryan

Interns

Orwyn Ellis
A. E. Meisenbach, Jr.

Grove A. Rawlins

Extern

Dewey St. John

DERMATOLOGY

Dermatologist

Martin F. Engman

Assistant Dermatologists

Richard S. Weiss
Adolph H. Conrad
William G. Coleman

Martin F. Engman, Jr.
Clinton W. Lane
Irwin H. Eskeles

Mycologist

Morris Moore

NEUROPSYCHIATRY

Neurologist in Chief

David McK. Rioch

Psychiatrist in Chief

John Whitehorn

Psychologist

Carlyle Jacobsen

Neurologist

Sidney I. Schwab

Assistant Neurologists and Psychiatrists

Andrew B. Jones

Louis Tureen

Archie D. Carr

Paul Kubitschek

Val B. Satterfield

Hewitt L. Varney

PATHOLOGY

*Pathologist*Howard A. McCordock¹*Intern*

Louis H. Hempelmann, Jr.

RADIOLOGY

Roentgenologist

Sherwood Moore

Assistant Roentgenologists

Joseph W. Larimore

Wendell G. Scott

Oscar C. Zink

Resident

Allan Phillips

Assistant Resident

William Y. Burton

Interns

Thomas G. Russell

William M. Clopton

STOMATOLOGY AND DENTISTRY

Stomatologist

Virgil Loeb

Dentists

William B. Spotts

James A. Brown

Assistant Dentist

Lester H. Jasper

¹ Died November 13, 1938.

MISCELLANEOUS

Physiologist

Joseph Erlanger

Chemist

Philip A. Shaffer

Anthropologist

Robert J. Terry

Physician in Charge of Physical Therapeutics

Frank H. Ewerhardt

ST. LOUIS CHILDREN'S HOSPITAL

ADMINISTRATION

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

PEDIATRICS

Physician in Chief

Alexis Frank Hartmann

Consulting Physicians

Borden Smith Veeder	Theodore C. Hempelmann
---------------------	------------------------

Associate Physicians

Jean Valjean Cooke	Hugh McCulloch
--------------------	----------------

Assistant Physicians

Helen Aff	Dorothy J. Jones
Katherine Bain	Paul E. Kubitschek
Joseph A. Bauer	Sol Londe
Russell J. Blattner	Maurice J. Lonsway
Adrien Bleyer	Edith C. Robinson
Max Deutch	Edwin H. Rohlfing
Lawrence E. Goldman	Wayne A. Rupe
Stanley L. Harrison	H. Ewing Wachter
Frederick A. Jacobs	Park J. White
Joseph C. Jaudon	Paul J. Zentay

SURGERY

Surgeon in Chief

Evarts Ambrose Graham

Consulting Surgeon

Malvern B. Clopton

Associate Surgeons

Vilray P. Blair	Glover H. Copher
John Albert Key	Robert Elman
Ernest Sachs	Peter Heinbecker
James Barrett Brown	Dalton Keats Rose

SURGERY (Continued)

Assistant Surgeons

Duff S. Allen	Edward L. Keyes
Robert W. Bartlett	Roland M. Klemme
Brian B. Blades	Warren R. Rainey
Eugene M. Bricker	Joseph H. Sanford
Theodore P. Brookes	Joseph E. Stewart
Louis T. Byars	Charles A. Stone
Clarence H. Crego	Franklin E. Walton
Rogers Deakin	Otto J. Wilhelmi
Arthur O. Fisher	Nathan A. Womack
Leonard T. Furlow	H. Relton McCarroll
Frederick A. Jostes	Henry Schwartz

OTOLARYNGOLOGY

Otolaryngologist

Lee Wallace Dean

Associate Otolaryngologists

Cordia C. Bunch	Arthur W. Proetz
Harry W. Lyman	

Assistant Otolaryngologists

Arthur M. Alden	William L. Hanson
Millard F. Arbuckle	Guerdan Hardy
Louis J. Birsner	George E. Hourn
Lilburn C. Boemer	Isaac D. Kelley, Jr.
William T. K. Bryan	Bernard J. McMahon
Alfred J. Cone	Allen B. Potter
James B. Costen	Frederick W. Scherrer
Lee W. Dean, Jr.	Ben H. Senturia
Louis E. Freimuth	Herbert M. Smit
Helen L. B. Gage	Albert C. Stutsman
Harry N. Glick	Robert E. Votaw
French K. Hansel	

OPHTHALMOLOGY

Ophthalmologist

Lawrence Tyler Post

Consulting Ophthalmologists

Meyer Wiener	Frederick E. Woodruff
William E. Shahan	

Assistant Ophthalmologists

Bennett Y. Alvis	William M. James
Edmund B. Alvis	Adolph Lange
Alan D. Calhoun	Harry D. Rosenbaum
H. Rommel Hildreth	Theodore E. Sanders

DENTISTRY

Dentist

Benno E. Lischer

Assistant Dentists

Robert A. Harris, Jr.	Ruth E. Martin
Roy C. Mallory	

DERMATOLOGY

Dermatologist

Martin Feeney Engman

Assistant Dermatologists

Richard S. Weiss

Martin F. Engman, Jr.

Clinton W. Lane *

GYNECOLOGY

Gynecologist

Otto Henry Schwarz

Consulting Gynecologist

Harry S. Crossen

Associate Gynecologists

Quitman U. Newell

T. Kenneth Brown

Grandison D. Royston

Assistant Gynecologists

Frank B. McNalley

John E. Hobbs

Richard Paddock

Carl R. Wegner

Robert J. Crossen

NEUROPSYCHIATRY

Neurologist

David McK. Rioch

Psychiatrist

John Whitehorn

Psychologist

Carlyle F. Jacobsen

Consulting Neurologist

Sidney I. Schwab

Assistant Neurologists

Archie D. Carr

Andrew B. Jones

PATHOLOGY

*Pathologist*Howard A. McCordock¹*Assistant Pathologists*

Margaret G. Smith

Walter J. Siebert

RADIOLOGY

Radiologist

Sherwood Moore

Assistant Radiologists

A. Norman Arneson

Wendell G. Scott

Joseph W. Larimore

Oscar C. Zink

¹ Died November 13, 1938.

MISCELLANEOUS

Chemist

Philip Anderson Shaffer

Assistant Chemist in Metabolism

Anne Macgregor Perley

Physiologist

Joseph Erlanger

Physician in Charge of Physical Therapeutics

Frank H. Ewerhardt

Bacteriologist

Jacques J. Bronfenbrenner

Associate Bacteriologist

Louis A. Julianelle

Resident

Eleanor Rector

Assistant Residents

Edgar E. Hitchcock

Neil Leitch

Henry Saunders

Junior Residents

Alfred E. Schwartz

Ernest M. Eichhorn

C. C. Terrell, Jr.

George J. Klok

Ruth E. Brinker

Interns

John D. Stull

Henry L. Barnett

ST. LOUIS MATERNITY HOSPITAL

MARY J. KEITH *Superintendent*

OBSTETRICS AND GYNECOLOGY

Consultants in Obstetrics and Gynecology

Harry S. Crossen

Hugo Ehrenfest

Obstetrician and Gynecologist in Chief

Otto H. Schwarz

Associate Obstetricians and Gynecologists

Frederick J. Taussig

Frank P. McNalley

Grandison D. Royston

Charles D. O'Keefe

Quitman U. Newell

Richard Paddock

Thomas Kenneth Brown

Otto S. Krebs

Assistant Obstetricians and Gynecologists

Adolph G. Schlossstein

Samuel D. Soule

Robert J. Crossen

Kevin C. Morrin

Grover B. Liese

Willard C. Scrivner

OBSTETRICS AND GYNECOLOGY (Continued)

Assistant Obstetricians and Gynecologists

Dudley R. Smith	Frances H. Stewart
Charles Drabkin	A. Norman Arneson
Myron W. Davis	Hans L. Kleine
Franz Arzt	Helman C. Wasserman
Melvin A. Roblee	George J. L. Wulff
Francis J. Canepa	Ora James Gibson
Carl R. Wegner	Leslie E. Patton
John E. Hobbs	Paul F. Max
John B. O'Neill	

Resident Obstetricians and Gynecologists

Arthur R. Bortnick	Herman Hutto
--------------------	--------------

Assistant Resident Obstetricians and Gynecologists

Frank A. Morrison	Morton R. Lazar
Hubert L. Allen	

Interns

Irwin T. Craig	William P. Maury, Jr.
Herman L. Gardner	Edward H. Seiber
Willis H. Hayward	Robert E. Van Wickle
William L. Jennings	

PEDIATRICS

Pediatrician in Chief

Alexis F. Hartmann

Consultant Pediatricians

Borden S. Veeder	Theodore C. Hempelmann
------------------	------------------------

Associate Pediatricians

Jean V. Cooke	Hugh McCulloch
---------------	----------------

Assistant Pediatricians

Helen Aff	Dorothy J. Jones
Katherine Bain	Paul E. Kubitschek
Joseph A. Bauer	Sol Londe
Russell J. Blattner	Maurice J. Lonsway
Adrien Bleyer	Edith C. Robinson
Max Deutch	Edwin H. Rohlfing
Lawrence E. Goldman	Wayne A. Rupe
Stanley L. Harrison	H. Ewing Wachter
Frederick A. Jacobs	Park J. White
Joseph C. Jaudon	Paul J. Zentay

MEDICINE

Physician

David P. Barr

Associate Physicians

Harry L. Alexander	Charles W. Duden
Julius Jensen	

SURGERY

Surgeon

Evarts A. Graham

Consultant Surgeons

Ernest Sachs

J. Albert Key

Vilray P. Blair

Associate Surgeons

Glover H. Copher

Peter Heinbecker

Robert Elman

J. Barrett Brown

Assistant Surgeons

Arthur O. Fisher

Fred Jostes

C. A. Stone

Rogers Deakin

Duff Allen

J. Hoy Sanford

D. K. Rose

Otto J. Wilhelmi

C. H. Crego

Frank Walton

Nathan Womack

Brian Blades

Theodore P. Brookes

Henry Schwartz

Leonard T. Furlow

Louis T. Byars

Warren R. Rainey

Eugene Bricker

J. Edgar Stewart

SPECIAL DEPARTMENTS

*Pathologist*Howard A. McCordock¹*Resident Pathologist*

Louis H. Hempelmann, Jr.

Otolaryngologist

Lee W. Dean

Assistant Otolaryngologists

Robert Votaw

Lee W. Dean, Jr.

Ophthalmologist

Lawrence T. Post

Assistant Ophthalmologists

M. Hayward Post

Bennett Y. Alvis

Max W. Jacobs

Dermatologist

Martin F. Engman

Assistant Dermatologists

Richard S. Weiss

Martin F. Engman, Jr.

Clinton W. Lane

Neurologists

David McK. Rioch

Sidney I. Schwab

Psychiatrist

John C. Whitehorn

Roentgenologist

Sherwood Moore

Stomatologist

Virgil Loeb

¹ Died November 13, 1938.

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

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Chief of Clinic

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Physician in Charge

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Physicians to Outpatients

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ANEMIA DIVISION

Physician in Charge

Carl V. Moore

ARTHRITIS DIVISION

Physician in Charge

J. Albert Key

Physicians to Outpatients

Hermann Rosenfeld

Oliver E. Tjoflat

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ENDOCRINE DIVISION

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Cyril M. MacBryde (Endocrine)

Samuel D. Soule (Gynecological)

Physicians to Outpatients

Cecil M. Charles

B. Y. Glassberg

Max Deutch

Kurt Mansbacher

FOOD CLINIC DIVISION

Dietitian

Ruth Kahn

GASTROINTESTINAL DIVISION

Physician in Charge

Bruce Kenamore

Physicians to Outpatients

John Horner

Harold Scheff

NEUROLOGICAL DIVISION

Chief of Clinic

Sidney I. Schwab

Physicians to Outpatients

Robert M. Bell

Paul Edward Kubitschek

Archie D. Carr

David McK. Rioch

E. Van Norman Emery

Val B. Satterfield

Joseph Gitt

John C. Whitehorn

Andrew B. Jones

Psychologist in Chief

Carlyle F. Jacobsen

Psychologist

Barbara Standish Kendall

MEDICAL CLINICS (Continued)

CHEST DIVISION

Physician in Charge

Dan Myers

Physicians to Outpatients

Kurt Mansbacher

L. C. Miller

VASCULAR DIVISION

Surgeon to Outpatients

Peter Heinbecker

Physician to Outpatients

William Kountz

LABORATORY DIVISION

Technician

Genevieve Gray

VENEREAL CLINIC

Chief of Clinic

Louis F. Aitken

MEDICAL DIVISION

Physician in Charge

Louis F. Aitken

Physicians to Outpatients

Leo Gottlieb

Karl F. Koenig

DERMATOLOGICAL DIVISION

Physician in Charge

Clinton W. Lane

NEUROSYPHILIS DIVISION

Physician in Charge

Lee D. Cady

Physician to Outpatients

Cecil M. Charles

Ophthalmological Consultant

William M. James

OBSTETRIC DIVISION

Chief of Clinic

Otto H. Schwarz

Physician to Outpatients

Samuel D. Soule

THERAPEUTIC DIVISION

Physician in Charge

William G. Coleman

PROCTOLOGICAL DIVISION

Surgeon in Charge

Warren R. Rainey

UROLOGICAL DIVISION

Chief of Clinic

Rogers Deakin

HEALTH AND DIAGNOSTIC CLINIC

Chief of Clinic

John V. Lawrence

Physician in Charge and Physician to Medical and Dental Students

J. Ted Jean

Pediatrician

Frederick A. Jacobs

DERMATOLOGICAL CLINIC

Dermatologist in Chief

Martin F. Engman

Chief of Clinic

Richard Weiss

Physicians to Outpatients

Adolph H. Conrad

Clinton W. Lane

William G. Coleman

Assistant Physicians to Outpatients

Irwin H. Eskeles

Roy L. Kile

James W. Bagby

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Surgeon in Chief

Evarts A. Graham

GENERAL SURGERY DIVISION

Chief of Clinic

Robert Elman

Surgeons to Outpatients

Ernest Sachs

Nathan Womack

Glover H. Copher

J. G. Probststein

Warren R. Rainey

Harry S. Brookes, Jr.

J. Barrett Brown

Peter Heinbecker

Assistant Surgeons to Outpatients

Robert Bartlett

Edwin C. Schmidtke

Franklin Walton

Max M. Goldenberg

Burchard Pruett

Gerhard E. Gruenfeld

GENITOURINARY DIVISION

Chief of Clinic

Rogers Deakin

Assistant Surgeons to Outpatients

John Patton

H. H. Feller

K. O. Wilson

Jules H. Kopp

Carl J. Althaus

Harry Cutler

ORTHOPEDIC DIVISION

Chief of Clinic

J. Albert Key

Surgeons to Outpatients

Charles A. Stone

Frank H. Ewerhardt

J. Edgar Stewart

Theodore P. Brookes

Assistant Surgeons to Outpatients

Frederick A. Jostes

H. L. Thieme

PEDIATRIC CLINICS

Pediatrician in Chief

Alexis F. Hartmann

Chief of Clinic

Jean V. Cooke

GENERAL PEDIATRIC DIVISION

Physician in Charge

Jean V. Cooke

Physicians to Outpatients

Frederick A. Jacobs

Katherine Bain

Max Deutch

Assistant Physicians to Outpatients

Sol Londe

Stanley L. Harrison

Voluntary Assistant

Marianne Kuttner

ALLERGY DIVISION

Physician in Charge

Katherine Bain

CARDIAC DIVISION

Physician in Charge

Hugh McCulloch

CONGENITAL SYPHILIS DIVISION

Physician in Charge

Edwin H. Rohlfing

WELL BABY DIVISION

Physician in Charge

Jean V. Cooke

OBSTETRICAL AND GYNECOLOGICAL CLINIC

Obstetrician and Gynecologist in Chief

Otto H. Schwarz

Chief of Gynecological Clinic

John E. Hobbs

Chief of Obstetrical Clinic

Dudley R. Smith

Obstetricians and Gynecologists to Outpatients

Quitman U. Newell

Charles Drabkin

T. Kenneth Brown

Robert J. Crossen

Karl J. Balazs

Samuel D. Soule

Otto S. Krebs

A. Norman Arneson

Carl R. Wegner

Melvin A. Roblee

Grover B. Liese

Myron W. Davis

Assistant Obstetricians and Gynecologists to Outpatients

Francis J. Canepa

Ora James Gibson

Frances H. Stewart

Leslie E. Patton

Kevin C. Morrin

Paul F. Max

Willard C. Scrivner

Arthur R. Bortnick

John B. O'Neill

Herman Hutto

Hans L. Kleine

Frank A. Morrison

Helman C. Wasserman

Hubert L. Allen

George J. L. Wulff, Jr.

Morton R. Lazar

OPHTHALMOLOGICAL CLINIC

Ophthalmologist in Chief

Lawrence T. Post

Chief of Ophthalmological Clinic

Adolph C. Lange

Ophthalmologists to Outpatients

William E. Shahan

Meyer Wiener

William F. Hardy

Frederick E. Woodruff

M. Hayward Post

Frederick O. Schwartz

Max W. Jacobs

Bennett Y. Alvis

Grover H. Poos

Carl C. Beisbarth

William M. James

H. Rommel Hildreth

J. S. Crawford

T. E. Sanders

Assistant Ophthalmologists to Outpatients

Notley W. Hawkins

W. H. Meinberg

Alan D. Calhoun

E. B. Alvis

Harry Rosenbaum

OTOLARYNGOLOGICAL CLINIC

Otolaryngologist in Chief and Chief of Clinic

Lee W. Dean

Associate Chiefs of Clinic

Harry W. Lyman

Millard F. Arbuckle

Arthur W. Proetz

Arthur M. Alden

French K. Hansel

Surgeons to Outpatients

George E. Hourn

Isaac D. Kelley, Jr.

James B. Costen

Bernard J. McMahan

Alfred J. Cone

Louis J. Birsner

Assistant Surgeons to Outpatients

Harry N. Glick

Helen Gage

Allen B. Potter

Lilburn C. Boemer

F. W. Scherrer

Robert Votaw

A. C. Stutsman

Guerdan Hardy

L. W. Dean, Jr.

H. M. Smit

W. K. Bryan

Ben H. Senturia

THE ST. LOUIS CITY HOSPITAL

Visiting Physicians and Surgeons to the City Hospital¹ and other City institutions are designated by Washington University to act as follows:

INTERNAL MEDICINE

Visiting Physicians

Thomas Findley

(Section Head)

Julius Jensen

Leon Bromberg

Carl Moore

Karl Koenig

Cecil Charles

Sim Beam

Consultants

Harry L. Alexander

David P. Barr

Walter Baumgarten

Walter Fischel

Llewellyn Sale

Albert Taussig

¹ Appointed by the City upon nomination by the University.

NEUROPSYCHIATRY

Visiting Physicians

John C. Whitehorn
(Section Head)
Archie Carr

Joe Gitt
Louis Tureen

DERMATOLOGY AND SYPHILOLOGY

Visiting Physicians

Clinton W. Lane
(Section Head)

William Coleman

GENERAL SURGERY

Visiting Surgeons

Peter Heinbecker
(Section Head)
Robert Elman

Franklin E. Walton
Nathan A. Womack

PLASTIC SURGERY

Visiting Surgeons

J. Barrett Brown
(Section Head)

Louis T. Byars

NEUROLOGICAL SURGERY

Visiting Surgeons

Leonard T. Furlow
(Section Head)

Henry Schwartz

ORTHOPEDIC SURGERY

Visiting Surgeons

J. Albert Key
(Section Head)
Theodore P. Brookes
Fred A. Jostes

J. Edgar Stewart
H. Relton McCarroll
M. B. Roche
O. P. Hampton, Jr.

UROLOGY

Visiting Surgeons

John F. Patton
(Section Head)

Otto J. Wilhelmi
Kenneth Wilson

EAR, NOSE AND THROAT, AND BRONCHOSCOPY

Visiting Surgeons

Allen B. Potter
(Section Head)

Ben H. Senturia

Consultant

Arthur W. Proetz

OPHTHALMOLOGY

Visiting Surgeons

Lawrence T. Post
(Section Head)
Grover H. Poos
A. D. Calhoun

T. E. Sanders
E. B. Alvis
Harry Rosenbaum

OBSTETRICS AND GYNECOLOGY

Visiting Surgeons

T. Kenneth Brown
(Section Head)
Dudley R. Smith

A. Norman Arneson
Samuel D. Soule
John B. O'Neill

Consultant (Toxemias of Pregnancy)

Carl R. Wegner

The facilities of the Isolation Hospital and the City Sanitarium are available for the use of the faculty.

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

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

was enlarged, clinical facilities were increased, additional 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 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, appreciating the value of the service a medical school gives to the community, with the cooperation of the Medical Faculty, reorganized the School in all departments and appointed heads of departments and instructors in anatomy, physiology, biological chemistry, pathology, medicine, surgery, and pediatrics, who devote themselves to teaching and research, and associated with this staff clinical instructors chosen from the medical profession of St. Louis. These changes were made with the aid of funds donated by philanthropic citizens of St. Louis. The inspiration for this movement came from the late Robert Somers Brookings, 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 Washington University Medical School moved from these locations on Locust Street and on Jefferson Avenue to the new buildings facing Forest Park on the corner of Kingshighway Boulevard and Euclid Avenue. The three buildings of the School of Medicine form a part of a medical group, which includes in addition the Barnes Hospital, the St. Louis Children's Hospital, the St. Louis Maternity Hospital, the McMillan Eye, Ear, Nose and Throat Hospital, the Oscar Johnson Research Institute and the Edward Mallinckrodt Institute of Radiology. The McMillan Eye, Ear, Nose and Throat Hospital, the Oscar Johnson Institute and the Edward Mallinckrodt Institute of Radiology are owned by the University. The Barnes Hospital, the St. Louis Children's Hospital and the St. Louis Maternity Hospital, owned each

by a separate Board, entered into an affiliation with the University by which the Faculty of the School of Medicine constitutes the medical staffs and uses the wards for teaching and investigation.

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.

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 (see frontispiece) makes this group of institutions for teaching purposes integral parts of the School of Medicine.

Members of the Faculty of the School constitute 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 out-patient departments of the hospitals, and furnish opportunities for instruction in the care of ambulatory patients.

About 125,000 visits are made yearly to the Washington University Clinics in all departments. The Barnes Hospital furnishes facilities for 450 potential beds, 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 of the McMillan Clinic are assigned to the various hospitals.

In addition to the ward laboratories located in these 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.

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.

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 School is responsible also for the care of one-third of the patients in the St. Louis City Hospitals, the staffs for certain units being chosen by the faculty from its members. The facilities of these large and varied hospital services are being increasingly used for teaching and research. The Isolation Hospital (for contagious disease), the City Sanitarium (for mental disease) are also used for study and teaching. Through arrangement with its staff, students observe patients in the St. Louis Shriners' Hospital for Crippled Children, which adjoins the Medical School.

The large 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 OF THE SCHOOL OF MEDICINE

The Library is housed in one of the buildings of the School of Medicine. It contains (October 1, 1938) 54,106 bound volumes and receives 521 medical periodicals, selected with reference to the needs of students and investigators. Including obsolete journals, there are 733 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,

by a separate Board, entered into an affiliation with the University by which the Faculty of the School of Medicine constitutes the medical staffs and uses the wards for teaching and investigation.

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the Beaumont Room, has been set aside in perpetuity for the exhibition of this priceless collection of documents.

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.

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.

REQUIREMENTS FOR ADMISSION TO SCHOOL OF MEDICINE

The first year class is now limited to eighty-two students. Since the number of applicants considerably exceeds the number who can be accommodated, *those applicants are selected for acceptance who, on the basis of scholarship and other qualities, appear best fitted to take up the study of medicine.*

Consideration is given to the quality rather than the quantity of the student's preparation. Personality, attitude, background, health and initiative are all taken into consideration in selecting candidates.

Applications for admission 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. Applicants will be 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.

Students may be admitted to the first year class on compliance with the following *scholastic* requirements; provided evidence is presented to indicate also the possession of suitable personal qualifications.

(1) The completion of college courses equivalent or approximately equivalent to those given in leading colleges or universities, leading to a Bachelor's degree. The college work should have included not less than the equivalent of 6 semester hours of English, 10 of German or French,¹ 15 of Chemistry (in-

¹ In the case of students who present high school credits in French or German for entrance to college, the following college credits will be accepted, provided the college courses are in continuation of and do not duplicate the high school work:

Eight semester hours following one high school unit, six semester

(Footnote continued on page 56)

cluding elementary quantitative analysis and 4 in organic), 8 of General Physics and 8 of Zoölogy.

(2) A limited number of applicants from acceptable colleges who meet the minimum subject requirements mentioned above, but who have completed less than four years of college work, may be admitted if they have demonstrated exceptional aptitude for the study of medicine as shown by high scholastic standing, by high scores on the medical aptitude test and by the estimates of individual instructors.

Students are not accepted on this basis who present a total of less than 90 semester hours.

High ranking students who have or have not received the Bachelor's degree on admission, may become candidates for that degree under certain conditions. (See page 60).

REQUIRED SUBJECTS

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

ENGLISH. Two years of English covering composition and rhetoric.

GERMAN OR FRENCH. It is highly desirable that students of medicine have such acquaintance with French and German as to enable them to read medical and scientific publications in these languages. Courses extending through two years are usually necessary to acquire a reading knowledge of either language.

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

CHEMISTRY. General inorganic chemistry, elementary quantitative analysis, and organic chemistry are required.

ZOÖLOGY. Courses in general zoölogy, covering a study of the structure, functions, and life history of selected types of animal life. Unless these courses include embryology, a separate course in this subject is extremely desirable.

ELECTIVE COURSES

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 which are the foun-

hours following two high school units, and four semester hours following three high school units.

Students having less than this credit may meet the requirement by passing an examination in French or German which will be given at the School of Medicine prior to registration.

dation of the medical sciences than can be obtained in the courses included in the minimum requirement. 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 physics, chemistry, or biology are sure to find an application for the skill they acquire.

Chemistry has the greatest number of applications and students will therefore find it to their advantage, wherever possible, to add other courses in chemistry, particularly elementary physical chemistry, to those previously mentioned.

Mathematics should be included as early as possible among the courses selected because it furnishes concepts fundamental to the other sciences. The necessary mathematical experience can be gained in a college course in mathematical analysis. A knowledge of the elementary principles of the calculus should be acquired by those who are mathematically inclined.

Courses in psychology, general physiology and general bacteriology will prove useful, but in general it is advised that the college period be devoted rather to the basic sciences mentioned above and also to the humanities. Those preparing to enter the medical profession should possess 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. Especial effort should be given to acquiring facility in the clear and accurate use of the English language.

Formal application blanks will be furnished upon request. After supplying all information called for therein, the applicant should return the blanks and, in addition, should request his college to send directly to the Registrar a statement of honorable dismissal, and 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 advanced classes. They 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 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.

Applicants for admission to advanced standing (1) must furnish evidence that the foregoing terms in regard to preliminary training have been fulfilled; (2) must show that courses equivalent in kind and amount to those given in this School, in the year or years preceding that to which admission is desired, have been satisfactorily completed; and (3) 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 admission is sought.

(a) Students who have received from an approved medical school credit for courses equivalent to those of the first year of this School in anatomy, chemistry, and physiology may be admitted to the second year class without examination, but at the discretion of instructors, may be examined in these subjects at the end of the second year. (b) Students who have received from an approved medical school 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) Students who have received credit from an approved medical school for all required courses given in this School in the first, second, and third years may be admitted to the fourth year class without examination, but all such students at the end of the year may be required to pass examinations covering any or all of the courses of the first, second, or third, as well as of the fourth year. 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

Graduate students 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 without paying fees. (3) A limited number of graduate physicians, or others who may be qualified, may be admitted to courses with the undergraduate classes subject to the consent of the instructors and the head of the department. Fees for special courses, individual instruction or material will be determined in each case by the Dean, in conference with the head of the department in which the work is done. (4) A number of special courses are offered concerning which full information will be given upon request. (See page 93.)

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 which have been 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) To enter the fourth year, a student must have received credit 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 unfit for the practice of medicine, will be required to withdraw. 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 University authorities his further attendance is deemed undesirable. In that case a pro rata refund of the tuition will be made.

REQUIREMENTS FOR DEGREES

DOCTOR OF MEDICINE

The candidates must be more than twenty-one years of age and of good moral character. They must have attended not less than four annual courses of medical instruction as matriculated medical students, the last of which has been in this School. They must have taken all obligatory courses offered here, or their equivalent, and have received a satisfactory grade in the work of the entire four years. They must have discharged all indebtedness to the School, and must be present when the degree is conferred.

At the end of the fourth year 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 admitted without the Bachelor's degree may become candidates during the course for the degree

of Bachelor of Science in Medical Sciences, provided the quality of work done in required courses is satisfactory and permits of the necessary additional study. Students who already hold the Bachelor's degree may become candidates on the same basis. 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 are expected to confer with the Faculty Adviser on Internships relative to obtaining suitable hospital appointments.

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

PRIZES

TWO GEORGE F. GILL Prizes are offered to the students of the School, viz.:

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

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

A prize is offered by the Alpha Omega Alpha Fraternity, to be awarded at the end of the fourth year to the member of that class who shall have made the highest general 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.

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 permanent 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.

FELLOWSHIPS, STUDENT ASSISTANTSHIPS, AND SCHOLARSHIPS

A SURGICAL FELLOWSHIP is awarded in the Department of Surgery for special neurological work. The stipend is \$1,200.00 per year. Candidates must be graduates in medicine. Applicants who have had one year's internship are preferred.

A MEMORIAL FELLOWSHIP with a stipend of \$500.00 or \$600.00 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 to a woman, for post-graduate study in anaesthesia, radiology, pathology, clinical pathology, immunology, public health or related fields. Application may be made to the Dean.

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.

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 \$100.00. Applications should be filed with the Dean.

THE ALUMNI SCHOLARSHIP AWARD of \$100.00 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. Applications should be filed with the Dean.

THE DR. JOHN B. SHAPLEIGH SCHOLARSHIP. Through a bequest of the late Dr. John B. Shapleigh, supplemented by contributions of the late Mrs. John B. Shapleigh and Miss Margaret Shapleigh, a fund has been established the annual income from which is used to pay the tuition of students who may be in need of assistance. The selection of the students to receive the benefit and the amounts awarded are determined by the Chancellor of the University on the recommendation of the Dean and the Executive Faculty. Applications should be filed with the Dean.

THE JACKSON JOHNSON FUND. Under the will of the late Jackson Johnson the sum of \$250,000.00 was donated to the University, the income to be used to aid worthy and desirable students in acquiring and completing their medical education.

From this fund a number of Honor Scholarships have been provided for students of outstanding ability and promise of high achievement who are applicants for the first year class. Each scholarship carries an annual stipend of at least \$300.00 and not more than \$1,000.00. The awards may be renewed for later years of the medical course. A few students of exceptional ability and personal fitness may thus receive both the distinction implied in the award and a substantial contribution toward the cost of their preparation for later service in medicine or medical science. Applications should be filed with the Dean.

Loans are available to students in the upper three classes of the School who are considered deserving on the basis of financial need, scholastic attainment and character. The loans are granted by the Chancellor on the recommendation of the committee on Loans and Scholarships and the Dean.

THE ELIZA McMILLAN STUDENT AID FUND. From the bequest of the late Mrs. Eliza McMillan, the annual income on \$7,000.00 provides a scholarship for a deserving woman student in the School of Medicine. Application may be made to the Dean, the award being made by the Chancellor.

THE T. GRISWOLD COMSTOCK SCHOLARSHIPS. Through the bequest of the late Mrs. Marilla E. Comstock, the annual income from \$12,000.00 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. Application may be made to the Dean. Awards are made by the Chancellor.

THE JOSEPH H. ROBLEE SCHOLARSHIPS. Through the gift of Mrs. Florence A. Roblee (Mrs. Joseph H. Roblee), the income from the Joseph H. Roblee Scholarship Endowment Fund of \$12,000.00 is used to maintain 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 \$15,000.00 provides one or more scholarships for qualified, worthy, and deserving students. Application is made to the Dean of the School of Medicine. The award is made by the Chancellor.

REGISTRATION

Registration for the first half year, 1939-40, is scheduled for Tuesday, September 26, and Wednesday, September 27, 1939; for the second half year, Monday, February 5, 1940. 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.

FEES AND EXPENSES

The University reserves the right to change the fees herein stated at any time without notice. Whenever a change is made, it will become effective 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 instalments, at the beginning of the first and second half years.

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. There are no other laboratory fees.

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 to students 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. Students in the Medical School having a Bachelor's degree are exempt from payment of this fee, but if the fee is paid by them it carries the same privileges as available to other students.

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	\$783.00 to \$1,123.00

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 available in the rear of the building, and there are public golf links, tennis courts and baseball grounds in nearby Forest Park. Each occupant must furnish his own sheets, pillow cases, counterpanes and blankets; otherwise the rooms are completely furnished.

The rental of a room is \$90.00 an academic year, payable in two installments in advance, at the beginning of the school year and on February 1. Reservations are made upon the understanding that the applicant agrees to occupy the room reserved until the close of the ensuing academic year. Application for reservation should be made to the Registrar of the School, and must be accompanied by a reservation fee of \$10.00. This fee will be returned should the room not be

assigned, but it will not be refunded for any other reason. If a room is assigned, the fee will not apply on the room rent, but will be held by the University to cover losses resulting from possible damage to the room or furniture. Any portion not so used will be refunded.

GENERAL PLAN OF INSTRUCTION

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

The course of study required of candidates for the degree of Doctor of Medicine is designed for students who have already received certain preliminary training. As stated in detail on p. 55, 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 of the student 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.

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. The work in the clinics 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 his assignment to the wards of the hospitals the student at first is given practice and instruction 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. 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. Students who profitably can are encouraged to carry during such 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 further any special interest he may have in any one of the fundamental sciences or clinical subjects for which he can supply the prerequisites.

Optional courses are offered in all departments and supply a wide variety of subjects from which the student can make his choice. 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	311
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		1081
THIRD YEAR		FOURTH YEAR	
SUBJECT	HOURS	SUBJECT	HOURS
Pathology	55	Pathology	24
Medicine	240	Medicine	319
Neur. & Psychiatry ..	110	Neurology	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	Electives .....	...
Public Health	44	Total (excluding electives)	
Medical			1063
Jurisprudence	11		
Radiology	4		
Stomatology	11		
Anatomy	22		
Military Science	(33)		
Total, excluding Military Science..			
	1050		

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 SLOCUMB.

ASSISTANT BARTLETT.

FELLOW LANIER.

STUDENT ASSISTANT FRANKLIN.

The Department of Anatomy provides courses adapted to the medical curriculum and offers facilities 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.

(Dr. Slocumb)

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, HILL, GREAVES.

STUDENT ASSISTANT FRANK BROWN.

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 (a) *Advanced Work*. Courses of laboratory work and selected reading will be arranged to suit individual needs.

(b) *Methods of Analysis*. (Dr. Shaffer)(c) *Respiratory Metabolism*. (Dr. Ronzoni Bishop)(d) *Methods of Physical Chemistry, as applied to biology*.

(Dr. Urban)

(e) *Nutrition*. (Dr. Greaves)(f) *Exercises in Preparation:*

The isolation of known substances.

Of biochemical interest. (Dr. Preisler)

(g) *Redox potentials of organic systems*.

(Drs. Preisler, Hill)

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

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

PHYSIOLOGY

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, de-

signed 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 PROFESSOR VARNEY.

INSTRUCTORS HERSHEY, TSUCHIYA, MORRIS, HARFORD, STRITAR.

ASSISTANTS GRONAU, KIRCHER, DOUBLY.

STUDENT ASSISTANTS MOORE, STILLERMAN, LOVE, MIHELICH.

SECOND YEAR

1. **BACTERIOLOGY.** The 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 measures of control. Fifteen hours a week during the first trimester. 168 hours. (Drs. Bronfenbrenner, Hershey, Stritar, Morris, Tsuchiya, Varney, Harford, Gronau)

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. One lecture and three hours of laboratory work each week, second trimester. 44 hours.

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

ELECTIVE COURSES

3. *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, BOWE, BOARD, DYKTOR.

THIRD YEAR

1. PUBLIC HEALTH. Consideration of methods, regulatory and educational procedures leading to prevention of disease and health hazards and promotion of physical and mental well-being of the community. 44 hours.

(Dr. Bronfenbrenner and Staff of Extramural Lecturers)

ELECTIVE COURSE

2. *Public Health Field Work.* This is corollary to the basic Public Health 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 second trimester.

(Drs. Bredeck, Meyer, Varney)

PATHOLOGY

EDWARD MALLINCKRODT PROFESSOR MCCORDOCK.¹

ASSISTANT PROFESSORS SIEBERT, MARGARET G. SMITH.

INSTRUCTORS WHEELER, ALLEN, GOSE, LENNETTE.

LECTURER POTE.

ASSISTANTS L. H. HEMPELMANN, JR., MANTZ, MEEKER, MUELLER,
WEDIG, WOOLSEY.

SECOND YEAR

1. PATHOLOGY. Prerequisite courses for pathology are the required work in anatomy, physiology, biological chemistry and bacteriology. The course is subdivided as follows:

(a) LECTURES AND LABORATORY WORK. This course is designed primarily to acquaint students of medicine with the changes in function and the alterations in structure which occur in the common human diseases. The class is divided into small groups and wherever possible the teaching consists of practical work with post-mortem material. Lectures and laboratory work, eleven hours a week in the second trimester and thirteen hours in the third trimester. 256 hours.

(Drs. Smith, Siebert, Wheeler and Staff)

(b) RECITATIONS. Two hours a week in the second trimester and one hour a week in the third trimester. 33 hours.

(Dr. Smith and Staff)

(c) CONDUCT OF AUTOPSIES. Students are instructed in the methods of post-mortem examination. In small groups they assist at autopsies and record the gross anatomical changes in an objective manner. Later they correlate these with the microscopical findings. (Drs. Smith, Siebert and Staff)

SECOND AND THIRD YEARS

1. (d) GROSS PATHOLOGY. Fresh pathological tissues are demonstrated to the class divided into small sections, and students study by personal contact the lesions which occur. Fresh material is supplemented by organs preserved as museum specimens. Two hours once a week during the third trimester of the second year and two hours once a week during the first trimester of the third year. 44 hours.

(Drs. Smith, Siebert and Staff)

THIRD AND FOURTH YEARS

2. CLINICAL AND PATHOLOGICAL CONFERENCE. The clinical history and treatment of patients who have died are discussed

¹ Died November 13, 1938.

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. Smith, Siebert)

ELECTIVE COURSES

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

4. *Seminar* for the discussion of Research. A limited number of students can be admitted. Two hours weekly. (Dr. Smith)

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 ASSISTANT SCHMIDT.

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.

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, HOAGLAND.

ASSISTANTS GAY, ABEL, BECKE, RICHMAN, GLASSBERG, MEHRTEN, MILTON SMITH, LEE B. HARRISON, CANNADY, NEWMAN, SKILLING, CHARLES, MANSBACHER, KEITH WILSON, BEAM, FLEISHMAN, HOLDEN, SEDDON, KOENIG, SCHEFF, HORNER, MASSIE, REYNOLDS, RAY WILLIAMS, BIERBAUM, EDWARDS, RAMMELKAMP.

STUDENT ASSISTANTS BIERMAN, WITHERS.

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 three months as clinical clerk in the medical clinics, and in the wards of Barnes Hospital and

the St. Louis City Hospital. During this period frequent conferences are held for the discussion of clinical, pathological, radiological and therapeutic aspects of selected cases.

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, Schwab, Bulger, 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.

(Drs. Barr, Aitken, 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 OF PATIENTS UNDER SUPERVISION IN THE WARDS OF BARNES HOSPITAL. A student is assigned each week one case for complete study and written report. Frequent informal conferences are held. Two hours five days each week for one trimester. 110 hours.

(Drs. B. Taussig, Hoagland, Seddon, K. Wilson)

3. THERAPEUTICS. General survey of methods and principal agencies employed in the medical treatment of disease. One hour each week during 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 Washington 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, Thompson, Myers)

8. CLINICAL PATHOLOGICAL CONFERENCE. (See Pathology 2).

ELECTIVE COURSES

9. *Diagnosis and Treatment of Venereal Diseases.* Clinical Clerkship in the Night Venereal Clinic of the University Clinics.

(Drs. Lawrence, Aitken and Staff)

10. *Diagnosis and Treatment of Diseases of Gastrointestinal Tract.* Clinical Clerkship in the Gastrointestinal Clinic of the University Clinics.

(Dr. Kenamore)

11. *Diagnosis and Treatment of Diseases of the Heart.* Clinical Clerkship in the Cardiac Clinic of the University Clinics.

(Drs. Strauss, Liggett)

12. *Medical Diagnosis*. Clinical Clerkship in the Afternoon Medical Clinic of the University Clinics.

(Dr. Seibel)

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

(Dr. Alexander)

NEUROPSYCHIATRY

PROFESSORS RIOCH, JACOBSEN, WHITEHORN, SCHWAB.

ASSISTANT PROFESSORS JONES, CARR.

INSTRUCTORS KUBITSCHKE, SATTERFIELD, TUREEN.

LECTURER EMERY.

ASSISTANTS KENDALL, GITT, HEWITT, VARNEY.

STUDENT ASSISTANT REESE.

FIRST YEAR

1. MEDICAL PSYCHOLOGY. Discussion of human nature from a functional point of view and of the biological and cultural sources of motivation and anxiety as related to medical problems. Lectures, one hour a week, first semester. 15 hours.

(Drs. Jacobsen and Whitehorn)

SECOND YEAR

See Medicine 1a.

THIRD YEAR

2. NEUROLOGY.

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

(Drs. Schwab, Rioch, Whitehorn, Jacobsen)

(b) Neuropathology. Lectures, lantern slides and laboratory demonstrations of the material covered in Course (a), with a study of gross and microscopic lesions of the nervous system, fibre tracts, etc. Exercise in examination and description of microscopic preparations of the more common diseases of the nervous system. Two hours a week, first trimester, 22 hours.

(Dr. Tureen)

(c) Neurological Clinic. The diagnosis and treatment of neuroses from the standpoint of psychobiology. Case material and clinic patients are used for purposes of discussion. One hour a week for two trimesters. 22 hours.

(Dr. Satterfield)

3. CLINICAL PSYCHIATRY. A review of abnormal psychology followed by a discussion of psychoses and neuroses with case presentation at the City Sanitarium. Two hours a week during the first and third trimesters. 44 hours. (Dr. Jones)

FOURTH YEAR

4. NEUROLOGY.

(a) Neurological ward rounds with the medical group. Neurological and such psychiatric cases as are suitable for hospital treatment are studied. Two hours a week for one quarter for each medical group. 16 hours.

(Drs. Schwab, Carr)

(b) Neurological Conference. A series of clinical demonstrations before the whole class in which all available types of nervous and mental diseases found in the hospital are discussed. One hour a week for four quarters. 32 hours.

(Dr. Schwab)

ELECTIVE COURSE

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)

DERMATOLOGY

PROFESSOR MARTIN F. ENGMAN.

ASSISTANT PROFESSOR WEISS.

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

ASSISTANTS ESKELES, KILE.

MYCOLOGIST MORRIS MOORE.

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. Eight hours a week for four weeks. 32 hours. Other hours by arrangement.

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

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, CAULK,¹ VILRAY P. BLAIR, CLOPTON, KEY, ASSOCIATE PROFESSORS COPHER, ELMAN, HEINBECKER, J. BARRETT BROWN, ROSE.

ASSISTANT PROFESSORS WILLARD BARTLETT, ARTHUR O. FISHER, STONE, ALLEN, CREGO, WOMACK, THEODORE P. BROOKES, FURLOW, ROWLETTE, DEAKIN.

INSTRUCTORS RAINEY, J. EDGAR STEWART, JOSTES, KLEMME, SANFORD, WILHELMI, HENRY S. BROOKES, JR., PROBSTEIN, WALTON, BLADES, SCHWARTZ, MCCARROLL.

ASSISTANTS KEYES, ROBERT BARTLETT, BYARS, CANNON, PATTON, KENNETH O. WILSON, THIEME, BRICKER, W. R. SMITH, G. B. SANDERS, STEPHEN ELLIS, HAFNER, HEIDEMAN, McDOWELL, BURFORD, DRESCHER, GELLHORN, HARRISON, LISCHER, HAMPTON, ROCHE.

FELLOW WIGDERSON.

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 No. 1, 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 No. 1 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 vari-

¹ Died October 13, 1938.

ous 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 specialties 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. 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 experi-

ence in fractures offered to the senior students at the City Hospital. One hour weekly during the third trimester. 11 hours. (Drs. Key, Copher, Stewart)

(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 No. 1 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 all of every day at that hospital except for noon clinics from 12 to 1 throughout the week at the Barnes Hospital and except for a clinical pathological conference from 4 to 5 on Monday afternoons which is given in the Medical School. The group at the Barnes and the St. Louis Children's Hospitals spends its mornings and the late afternoons 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 mem-

bers 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 2). 216 hours. (Dr. Graham and Staff)

(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. 33 hours. (Dr. Graham)

5. **ORTHOPEDIC OUTCLINIC.** Each student attends daily for two weeks. 24 hours. (Drs. Key, Stone, Stewart, 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.
ASSISTANT PROFESSOR WENDELL SCOTT.
INSTRUCTORS ZINK, ARNESON.
ASSISTANTS PHILLIPS, BURTON.

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, Zink)

OPHTHALMOLOGY

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

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, James, Hildreth)

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.

(Dr. Lawrence Post, M. H. Post, Jacobs, Schwartz,
Alvis, Beisbarth, Lange, Sanders)

OTOLARYNGOLOGY

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

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. Ten hours a week for 4 weeks. 40 hours.

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

OBSTETRICS AND GYNECOLOGY

PROFESSORS OTTO H. SCHWARZ, 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, HUTTO, GIBSON, BORTNICK, ALLEN, MORRISON, LAZAR.

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 on 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 based upon assigned reading in a prescribed textbook.

1. OBSTETRICS AND GYNECOLOGY.

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

(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. (Dr. Schwarz)

(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 2).

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 also 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 and are under constant supervision of instructors. The clinics on selected obstetrical and gynecological topics are given as a final 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, Royston, Newell)

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

(Drs. Schwarz, Royston, McNalley, Ehrenfest,
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 pre-natal 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, DEUTCH, F. A. JACOBS,
STANLEY HARRISON, JAUDON, LONDE, BLATTNER.

ASSISTANTS LONSWAY, BAUER, RECTOR, AFF, JONES, WACHTER.

RESEARCH FELLOWS BURNS, HITCHCOCK, SAUNDERS.

RESEARCH ASSISTANT RUHOFF.

STUDENT ASSISTANT ANDERSON.

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 by having him work in the wards of the St. Louis Children's Hospital and in the Pediatric Clinic, and by having him attend the frequent clinical conferences of the hospital and teaching 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. 33 hours.

(Drs. Hartmann, Cooke, Veeder, McCulloch)

5. CLINICAL AND PATHOLOGICAL CONFERENCES. See Pathology 2. Approximately one-third of the course is devoted to pediatric cases.

6. CLINICAL CLERKSHIPS. For two hours each morning for two weeks 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:

- (a) Basic Course—first and second years.
- (b) Advanced Course—third and fourth years.
 - (1) 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 28-December 16, inclusive

1939-40

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						
12 to 1			Anatomy Lecture Anatomy 1		Medical Psychology Neuropsychiatry 1	Anatomy Lecture Anatomy 1
2 to 3	Dissection Anatomy 1	Military Science and Tactics 1	Dissection Anatomy 1		Dissection Anatomy 1	
3 to 4						
4 to 5						

THE SCHOOL OF MEDICINE

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
Schedule of First Year. December 18-February 3, inclusive

1939-40

96

BULLETIN OF WASHINGTON UNIVERSITY

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WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1939-40

Schedule of First Year. February 5-June 1, 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)	
2 to 3	Dissection Anatomy 1		Dissection Anatomy 1		Dissection Anatomy 1	
3 to 4						
4 to 5						

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

1939-40

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

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

1939-40

100

BULLETIN OF WASHINGTON UNIVERSITY

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pathology Laboratory Pathology 1a	Introductory Clinic Medicine 1a	Pathology Laboratory Pathology 1a	Physical Diagnosis Medicine 1b	Pathology Laboratory Pathology 1a	Pathology Recitation Pathology 1b
10 to 11		Clinical Microscopy Medicine 1c				Pathology Lecture Pathology 1a	Gross Pathology Pathology 1d
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		Introduction to Surgery		
4 to 5		Surgery 1		Surgery Clinic Surgery 1	Surgery 1	

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

1939-40

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	Neurology Lecture and Neuro- Pathology Neuropsych. 2a and 2b
10 to 11	Group A Medicine 2	Group A Medicine 2	Group A Medicine 2	Group A Medicine 2	Group A Medicine 2	
	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 $\frac{1}{2}$ Neuropsych. 2c $\frac{1}{2}$ Pediatrics 1	Group C Ob. and Gyn. 1b	Group C $\frac{1}{2}$ Neuropsych. 2c $\frac{1}{2}$ Pediatrics 1	Clinical Psychiatry Neuropsych. 3	Medicine Clinic Medicine 7a
12 to 1	Surgery Recitation Surgery 2b	Surgery Clinic Surgery 2e	Military Science and Tactics 2	Surgery Confer. Surgery 2f		
2 to 3	Group C Ob. and Gyn. 1d	Gross Pathology Pathology 1d	Surgical Pathology Surgery 3	Public Health 1		
3 to 4						
4 to 5	Clinical Patho- logical Confer. Pathology 2		Public Health 1			

THE SCHOOL OF MEDICINE

101

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

1939-40

102

BULLETIN OF WASHINGTON UNIVERSITY

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	Neurology Lecture Neuropsych. 2a
10 to 11	Group A Ob. and Gyn. 1b	Group A $\frac{1}{2}$ Neuropsych. 2c $\frac{1}{2}$ Pediatrics 1	Group A Ob. and Gyn. 1b	Group A $\frac{1}{2}$ Neuropsych. 2c $\frac{1}{2}$ 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		Anatomy 4		Anatomy 4		
	Clinical Path. Conference Pathology 2		Public Health 1			

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1939-40

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
	Group B Ob. and Gyn. 1b	Group B $\frac{1}{2}$ Neuropsych. 2c $\frac{1}{2}$ Pediatrics 1	Group B Ob. and Gyn. 1b	Group B $\frac{1}{2}$ Neuropsych. 2c $\frac{1}{2}$ Pediatrics 1	Group C Medicine 2	
11 to 12	Group C Medicine 2	Group C Medicine 2	Group C Medicine 2	Group C Medicine 2	Clinical Psychiatry	Military Science and Tactics 2
12 to 1	Fractures Surgery 2c	Surgery Clinic Surgery 2e	Dietetics Medicine 4	Surgery Conference Surgery 2f	Neuropsych. 3	Medicine Clinic Medicine 7a
2 to 3	Group B Ob. and Gyn. 1d	Laryn. & Rhin. Lecture Otolaryn. 1	Operative Surgery Surgery 2d 2 Sections $\frac{1}{2}$ trimester each	Dermatology Lecture Dermatology 1	Surgical Pathology Surgery 3	
3 to 4		Stomatology		Ophthalmology Lecture Ophthal. 1		
4 to 5	Clinical Pathological Conference Pathology 2				Medical Jurisprudence	

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

1939-40

104

BULLETIN OF WASHINGTON UNIVERSITY

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 12	<p style="text-align: center;">Medicine 6 and Neuropsych. 4a Ward Work Section I—City Hospital Section II—Barnes Hospital</p>					
12 to 1	<p style="text-align: center;">Neurology Clinic Neuropsych. 4b</p>	<p style="text-align: center;">Surgery Clinic Surgery 4b</p>	<p style="text-align: center;">Pediatrics Clinic Pediatrics 4</p>	<p style="text-align: center;">Medicine Clinic Medicine 7b</p>	<p style="text-align: center;">Ob. & Gyn. 2b Lecture I, II, III Quarters</p>	<p style="text-align: center;">Medicine Clinic Medicine 7a</p>
2 to 4	<p style="text-align: center;">Section I—Ophthalmology 2 Section II—Barnes Hospital Wards</p>					
4 to 5	<p style="text-align: center;">Clinical Pathological Conference Pathology 2 I, II, III Quarters</p>					

Note: Sections change at the middle of the quarter.

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

1939-40

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 12	<p style="text-align: center;">Section I—Medical Clinics (Gen. Med., Heart, Chest, Nerve) Section II—Surgical Clinics (G. U., Orthopedic)</p>					
12 to 1	Neurology Clinic Neuropsych. 4b	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 Pathological Conference Pathology 2 I, II, III Quarters					

Note: Sections change at the middle of the quarter.

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

1939-40

106

BULLETIN OF WASHINGTON UNIVERSITY

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

Note: Sections change at the middle of the quarter.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1939-40

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	Neurology Clinic Neuropsych. 4b	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 Pathological Conference Pathology 2 I, II, III Quarters					

Note: This section changes with the Pediatrics-Gynecology section at the middle of the quarter.

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

1939-40

108

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 Ward Work St. Louis Children's Hospital (2 weeks)					
12 to 1	Neurology Clinic Neuropsych. 4b	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 Pathological Conference Pathology 2 I, II, III Quarters					

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

DEGREES CONFERRED AT COMMENCEMENT

June 7, 1938

DOCTOR OF MEDICINE

NAME — INTERNSHIP

- Abrahams, Harry Harvey, A.B.—Kings County Hospital, Brooklyn, New York.
 Aker, Cecil Grover, A.B.—St. Luke's Hospital, St. Louis, Missouri.
 Allee, William Sylvanus, A.B.—St. Luke's Hospital, St. Louis, Missouri.
 Baers, Harry, A.B.—City Hospital, St. Louis, Missouri.
 Baker, William Green, A.B.—Presbyterian Hospital, Denver, Colorado.
 Barks, Orville Leon, B.S., A.M.—Tampa Municipal Hospital, Tampa, Florida.
 Barnett, Henry Lewis, B.S., (cum laude)—St. Louis Children's Hospital, St. Louis, Missouri.
 Bingham, Harvey Dexter, B.S.—King County Hospital, Seattle, Washington.
 Blaney, Loren Francis, A.B., (cum laude)—New Haven Hospital, New Haven, Connecticut.
 Blankenship, George William, A.B.—City Hospital, St. Louis, Missouri.
 Boots, Roger Hammond, A.B., B.S.—City Hospital, St. Louis, Missouri.
 Brookes, Robert Dunlap, A.B.—Barnes Hospital, St. Louis, Missouri.
 Bryan, Malvern Thornton, A.B.—City Hospital, St. Louis, Missouri.
 Carter, Kenneth Lockie, A.B.—City Hospital, St. Louis, Missouri.
 Carter, Margaret Ann, A.B.—Albany General Hospital, Albany, New York.
 Conrad, Adolph Henry, Jr., A.B.—St. Luke's Hospital, St. Louis, Missouri.
 Dakin, Marion Janet, A.B.—Barnes Hospital, St. Louis, Missouri.
 Doenges, James Luther, B.S.—City of Detroit Receiving Hospital, Detroit, Michigan.
 Fiandaca, Patsy Marion, Jr., B.S.—City Hospital, St. Louis, Missouri.
 Findley, James Wallace, A.B.—Lutheran Hospital, St. Louis, Missouri.
 Fisher, Joseph Lee, B.S.—DePaul Hospital, St. Louis, Missouri.
 Freedman, Harold, Ph.B.—City Hospital, St. Louis, Missouri.
 Gerson, Hyman William, B.S.—Iowa Methodist Hospital, Des Moines, Iowa.
 Gilbert, Harold Raymond, A.B.—Jewish Hospital, St. Louis, Missouri.
 Gill, Dorothy, B.S., M.S., (cum laude)—Baltimore City Hospital, Baltimore, Maryland.
 Golden, Abraham Alfred, B.S., M.S.—St. Luke's Hospital, Cleveland, Ohio.
 Gumper, Lewis Joseph, A.B., B.S.—St. Elizabeth's Hospital, Dayton, Ohio.
 Hamilton, Eugene Henry, A.B., B.S.—St. Luke's Hospital, St. Louis, Missouri.
 Harris, Reuben Rhys, A.B.—Hillman Hospital, Birmingham, Alabama.
 Hartman, Paul Tupper, A.B.—City Hospital, St. Louis, Missouri.
 Hawker, William Davis, B.S.—City Hospital, St. Louis, Missouri.
 Hempelmann, Louis Henry, Jr., A.B., (cum laude)—Barnes Hospital, St. Louis, Missouri.
 Hetzel, Clarence Charles, Jr., A.B.—City Hospital, St. Louis, Missouri.
 Hogg, Garrett, Jr., B.S.—City Hospital, St. Louis, Missouri.
 Hughes, Preston Gardner, A.B.—Holy Cross Hospital, Salt Lake City, Utah.
 Hunter, John Willis, Jr., A.B.—Hillman Hospital, Birmingham, Alabama.
 Jensen, Joshua Ernest, A.B.—St. Mary's Group of Hospitals, St. Louis, Missouri.
 Jones, Horace Edgar, A.B.—Saginaw General Hospital, Saginaw, Michigan.
 Jones, James Buckner, A.B.—St. Luke's Hospital, St. Louis, Missouri.
 Kimelman, Nathan, B.S.—Montefiore Hospital, Pittsburgh, Pennsylvania.
 Kirtz, Louis Philip, Jr., A.B.—St. Luke's Hospital, St. Louis, Missouri.
 Koch, Pearl Elizabeth—Children's Hospital for Women and Children, San Francisco, California.
 Kotner, Lawrence Melvin, A.B.—Jewish Hospital, St. Louis, Missouri.
 Leech, Maurice Packwood, A.B., B.S.—Deaconess Hospital, St. Louis, Missouri.
 Legow, Albert, A.B.—St. Alexis Hospital, Cleveland, Ohio.
 Lionberger, John Robert, Jr., A.B.—Barnes Hospital, St. Louis, Missouri.
 Lowell, Vivion Forman, A.B.—Deaconess Hospital, St. Louis, Missouri.
 Lynn, Robert Bell, A.B.—City Hospital, St. Louis, Missouri.
 Lynn, Theodore Ayres—Hartford Hospital, Hartford, Connecticut.
 Mangum, John Robert, B.S.—St. Louis County Hospital, Clayton, Missouri.
 Mantz, Harry Earl, A.B.—Barnes Hospital, St. Louis, Missouri.
 McKee, Wayne Pickens, A.B.—St. Luke's Hospital, San Francisco, California.
 Meeker, Cornelius Shepherd, A.B.—Barnes Hospital, St. Louis, Missouri.
 Melaville, Eugene Francis, B.S., A.B.—Genesee Hospital, Rochester, New York.
 Miller, Clyde Sylvester, A.B., B.S.—City Hospital, St. Louis, Missouri.
 Milster, Clyde Rogers, A.B.—City Hospital, St. Louis, Missouri.
 Mitchell, Landis Patterson, Jr.—City Hospital, St. Louis, Missouri.
 Moles, Robert George—Henry Ford Hospital, Detroit, Michigan.
 Moseley, Harry Gladding, B.S.—Presbyterian Hospital, Denver, Colorado.
 Mueller, Alexander Ado—Barnes Hospital, St. Louis, Missouri.
 Nolan, James Findley, A.B.—Barnes Hospital, St. Louis, Missouri.
 Parker, Joe Marion, A.B., M.S., (cum laude)—Barnes Hospital, St. Louis, Missouri.

Peck, George Arthur, A.B.—Colorado General Hospital, Denver, Colorado.
 Piraino, Anthony Frank, A.B.—St. Luke's Hospital, Cleveland, Ohio.
 Pollock, Joseph Hirsh, B.S.—Cedars of Lebanon Hospital, Los Angeles, California.
 Pratt, William Coleman, A.B.—George F. Gelsinger Hospital, Danville, Pennsylvania.
 Richey, Tim Victor, A.B.—San Diego County Hospital, San Diego, California.
 Roberts, Thomas Haynes, B.S.—Southern Pacific Hospital, San Francisco, California.
 Robinson, Robert Roy, Jr., A.B., B.S.—City Hospital, St. Louis, Missouri.
 Rodeman, John MacLean, A.B., B.S.—St. Luke's Hospital, Kansas City, Missouri.
 Rose, William Frederick, (cum laude)—Barnes Hospital, St. Louis, Missouri.
 Rosenblatt, Philip, A.B.—Jewish Hospital, Brooklyn, New York.
 Ruff, Troy Eugene, A.B.—De Paul Hospital, St. Louis, Missouri.
 Schultz, Samuel—City Hospital, St. Louis, Missouri.
 Schwander, Leon Howard, Jr., A.B.—City Hospital, St. Louis, Missouri.
 Serrano, Ernest Escarza, A.B.—St. Louis County Hospital, Clayton, Missouri.
 Shuman, John William, Jr., A.B.—Santa Clara County Hospital, San Jose, California.
 Silverberg, Charles, A.B.—St. Elizabeth's Hospital, Washington, D. C.
 Simpson, Reed Morgan, B.S.—De Paul Hospital, St. Louis, Missouri.
 Skaff, Victor, A.B., B.S.—Charleston General Hospital, Charleston, West Virginia.
 Smith, Warren Ferguson, B.S.—Barnes Hospital, St. Louis, Missouri.
 Spitz, Milton Adolph, A.B.—St. Louis County Hospital, Clayton, Missouri.
 Stanbro, William Woodrow—City Hospital, St. Louis, Missouri.
 Steindorf, Eleanor Lucretia, B.S.—Milwaukee County General Hospital, Wauwatosa, Wisconsin.
 Steiner, Howard Abraham—Jewish Hospital, St. Louis, Missouri.
 Stull, John De Gars, A.B., (cum laude)—St. Louis Children's Hospital, St. Louis, Missouri.
 Takenaka, Kameichi, B.S.—City Hospital, St. Louis, Missouri.
 Thomas, Roy, A.B.—St. Luke's Hospital, San Francisco, California.
 Wade, Leo Joseph, A.B., (cum laude)—New York Hospital, New York, New York.
 Weber, Frank Joseph, Jr.—Kings County Hospital, Brooklyn, New York.
 Wedig, John Harrison—Barnes Hospital, St. Louis, Missouri.
 Wilder, Winfield Scott, B.S.—City Hospital, St. Louis, Missouri.
 Wilson, Fredrick Dale, B.S., M.S.—City Hospital, St. Louis, Missouri.
 Windham, Samuel Wilburn, A.B.—St. Luke's Hospital, Chicago, Illinois.
 Windus, Charles Edward, B.S.—Albany General Hospital, Albany, New York.
 Zucker, Ralph Leo, B.S., (cum laude)—Cincinnati General Hospital, Cincinnati, Ohio.
 Total, 96.

BACHELOR OF SCIENCE IN MEDICAL SCIENCE

NAME — ADDRESS

Barnett, Henry Lewis—St. Louis, Missouri.
 Doenges, James Luther—Tonkawa, Oklahoma.
 Pollock, Joseph Hirsh—St. Louis, Missouri.
 Simpson, Reed Morgan—St. Louis, Missouri.

Total, 4.

PRIZES AWARDED AT COMMENCEMENT

June 7, 1938

GILL PRIZE IN ANATOMY

Earl Wilbur Sutherland, Jr., B.S.

GILL PRIZE IN PEDIATRICS

Henry Lewis Barnett, B.S. Cornelius Shepherd Meeker, A.B.

ALPHA OMEGA ALPHA PRIZE

Louis Henry Hempelmann, Jr., A.B.

ALEXANDER BERG PRIZE IN BACTERIOLOGY

Hyman William Gierson, B.S. Abraham Alfred Golden, B.S., M.S.

ALUMNI SCHOLARSHIP

Leo Sachar, A.B.

JACKSON JOHNSON SCHOLARS — 1938-39

Roy Elmer Ahrens, Jr., A.B.	Charles B. Mueller, A.B.
William Morris Anderson, B.S.	William George Reese, B.S., M.S.
Frank A. Brown, Jr., A.B.	Philip T. Shahan, A.B.
Charles M. Huguley, Jr., A.B.	Vergil Nelson Slee, A.B.
Gordon Sparks Letterman, A.B.	Souther Fulton Tompkins, A.B.
Frances Marshall Love, A.B.	Martin S. Withers, A.B.

ROSTER OF STUDENTS

PHYSICIANS ATTENDING GRADUATE COURSES BETWEEN
JANUARY 1 and DECEMBER 31, 1938¹

Anderson, Elam D., M.D.	Ophthalmology	Fairview, Utah
Blew, Clarence L., M.D.	Ophthalmology	Concordia, Kans.
Bramwell, Lavon, M.D.	Otolaryngology	Lake Arrowhead, Calif.
Budetti, Joseph A., M.D.	Otolaryngology	Bronx, N. Y.
Bursten, Herschel H., M.D.	Otolaryngology	Los Angeles, Calif.
Chessen, James, M.D.	Otolaryngology	Duluth, Minn.
Clarke, Donald E., M.D.	Obstetrics and Gynecology	Longview, Wash.
Compton, J. Roy, M.D.	Anatomy	St. Louis, Mo.
Fairo, Carroll J., M.D.	Obstetrics and Gynecology	Cincinnati, Ohio
Flynn, John D., M.D.	Otolaryngology	Grand Rapids, Mich.
Frey, Walter D., M.D.	Ophthalmology	Chattanooga, Tenn.
Geeseman, George R., M.D.	Ophthalmology	Houston, Pa.
Goldman, Herbert B., M.D.	Otolaryngology	Brooklyn, N. Y.
Goodhill, Victor, M.D.	Otolaryngology	Hollywood, Calif.
Greenwald, Seymour, M.D.	Otolaryngology	Chicago, Ill.
Hanser, S. Albert, M.D.	Ophthalmology	St. Louis, Mo.
Holland, John G., M.D.	Otolaryngology	Lynch, Ky.
Kaiser, George L., M.D.	Obstetrics and Gynecology	Muskogee, Okla.
Kaufman, Walter B., M.D.	Otolaryngology	St. Paul, Minn.
Kempler, Samuel L., M.D.	Otolaryngology	Newburgh, N. Y.
Klaff, Daniel D., M.D.	Otolaryngology	Baltimore, Md.
Koivun, George W., M.D.	Obstetrics and Gynecology	Moline, Ill.
Langston, William C., M.D.	Obstetrics and Gynecology	York, Pa.
Lee, Frank N., M.D.	Obstetrics and Gynecology	Central City, Pa.
McGannon, Francis L., M.D.	Otolaryngology	Cleveland, Ohio
Miller, Jay F., M.D.	Ophthalmology	Washington, D. C.
Mills, John F., M.D.	Otolaryngology	Wabash, Ind.
Morgan, Harold E., M.D.	Ophthalmology	Fredonia, Kans.
Mountjoy, Philip S., M.D.	Otolaryngology	St. Louis, Mo.
Nelson, Henry W., M.D.	Obstetrics and Gynecology	Ogden, Utah
Newport, Pearce E., M.D.	Otolaryngology	Clarinda, Iowa
Owsley, Robert W., M.D.	Otolaryngology	Thorntown, Ind.
Parker, James G., M.D.	Obstetrics and Gynecology	Delaware, Ohio
Phillips, Lyle G., M.D.	Obstetrics and Gynecology	Honolulu, T. H.
Powell, Archie C., M.D.	Otolaryngology	Seattle, Wash.
Raines, Oney C., M.D.	Obstetrics and Gynecology	St. Louis, Mo.
Roberts, Rufus A., M.D.	Otolaryngology	Decatur, Tex.
Rosenberg, Henry E., M.D.	Anatomy	Richmond Heights, Mo.
Ryder, Bruce I., M.D.	Obstetrics and Gynecology	Henry, Ill.
Schaefer, George J., M.D.	Obstetrics and Gynecology	
	Ophthalmology	Edwardsville, Ill.
Schlott, McKinley A., M.D.	Obstetrics and Gynecology	Alliance, Ohio
Shilling, Raymond L., M.D.	Otolaryngology	Navarre, Ohio
Smith, Frank J., M.D.	Anatomy	St. Louis, Mo.
Ulrich, Henry J., M.D.	Otolaryngology	St. Louis, Mo.
Vander Meulen, Herman C., M.D.	Obstetrics and Gynecology	Pella, Iowa
Vitale, Nicholas S., M.D.	Anatomy	Normandy, Mo.
Waltz, Harold D., M.D.	Otolaryngology	Seattle, Wash.
White, Carl H., M.D.	Otolaryngology	Fenton, Mich.
Woodrow, Jack H., M.D.	Otolaryngology	Yonkers, N. Y.
Yavelow, Charles S., M.D.	Otolaryngology	Mt. Vernon, N. Y.
		Total, 50.

FOURTH YEAR CLASS

Ackerly, Roscoe Hope, B.S., Mont. State Coll., '35—Danvers, Mont.
Ahrens, John Heideman, A.B., Coll. of Wooster, '35—New York, N. Y.
Anderson, Charles Roy, A.B., Univ. of Ill., '35—St. Louis, Mo.
Barham, Berlin Francis, B.S., Univ. of N. C., '37—Leaksville, N. C.
Basham, George Leo, A.B., Univ. of Wichita, '35—Wichita, Kans.
Baumgarten, Walter, Jr., A.B., Washington Univ., '35—St. Louis, Mo.
Baur, Alfred Karl, A.B., Washington Univ., '35—Webster Groves, Mo.
Beasley, Louis Kenneth, A.B., Washington Univ., '35—Webster Groves, Mo.
Berger, Irving, A.B., Western Reserve Univ., '35—Cleveland Heights, Ohio
Berman, Benjamin Byral, A.B., Washington Univ., '35—East St. Louis, Ill.
Bernard, William Reich, B.S., Univ. of Notre Dame, '35—Springfield, Ill.
Bierman, Howard Richard—Newark, N. J.
Blair, Vilray Papin, Jr.—Florissant, Mo.
Blum, Leo J., Jr., B.S., Mercer Univ., '36—Macon, Ga.

¹ This does not include physicians attending graduate courses which began in 1937 and continued into 1938.

- Bohne, Arthur Waite, A.B., Univ. of Mo., '35—Joplin, Mo.
 Borenstine, Joseph—Kansas City, Mo.
 Boyers, Sidney Steven, B.S., Long Island Univ., '34—Brooklyn, N. Y.
 Brakel, Carl Arthur—Seattle, Wash.
 Brockbank, Mark Joseph, A.B., Brigham Young Univ., '35—Spanish Fork, Utah
 Brown, Wilson Gordon, A.B., William Jewell Coll., '35—Bosworth, Mo.
 Burbidge, Earl LeRoy, B.S., Univ. of Wis., '28—St. Louis, Mo.
 Campbell, Harry Bryant, A.B., Univ. of S. Dak., '34; B.S., Univ. of S. Dak., '37—
 Des Moines, Iowa
 Canepa, Edward Gaten—St. Louis, Mo.
 Cockett, Patrick Mormon, Jr., B.S., Univ. of Hawaii, '35—Maui, T. H.
 Corgill, Donald Alton, A.B., Univ. of Alabama, '38—Monticello, N. Y.
 Cron, Heinz Edward—Stettin, Germany
 Crutcher, Luke Fain, Jr.—Claremont, Calif.
 Dameron, Edward Oscar, B.S., Univ. of Mo., '37—Elsberry, Mo.
 Dix, John Willoughby, B.S., Univ. of Miami, '36—Coral Gables, Fla.
 Dodds, Donald Clifford, A.B., Univ. of Calif., '35—Oakland, Calif.
 Douglas, Paul Lowell, A.B., William Jewell Coll., '33; B.S., Univ. of Mo., '36—
 Liberty, Mo.
 Douglas, Thomas Harrelson, Jr., A.B., Univ. of Mo., '36; B.S., Univ. of Mo., '37—
 Bolivar, Mo.
 Eckert, Charles Leonard—New York, N. Y.
 Elsworth, John Nelson, A.B., Univ. of N. Dak., '35; B.S., Univ. of N. Dak., '37—
 Bismarck, N. Dak.
 Epstein, Carl Charles, A.B., Washington Univ., '35—Malden, Mass.
 Fleming, Ruth, B.S., Univ. of Ark., '35—Ft. Smith, Ark.
 Foseid, Oscar Fritjoff, A.B., Univ. of Wis., '31—Madison, Wis.
 Foster, Miles Everett, Jr., A.B., Univ. of Mo., '36; B.S., Univ. of Mo., '37—
 Ft. Smith, Ark.
 Fox, Leon Julius—St. Joseph, Mo.
 Fraser, George Frederick, A.B., Stanford Univ., '35—Antioch, Calif.
 Fraser, Richard Stanton, A.B., Univ. of Mo., '33; B.S., Univ. of Mo., '37—St.
 Louis, Mo.
 Geppert, Leo Joseph, A.B., Univ. of S. Dak., '35; M.A., Univ. of S. Dak., '37—
 Vermillion, S. Dak.
 Graham, John Glenwood, Jr., A.B., Washington Univ., '35—University City, Mo.
 Greeley, Robert Hiram, A.B., Univ. of Ill., '35—Waterman, Ill.
 Hall, John Randolph, Jr., A.B., Central Coll., '35—Ft. Omaha, Nebr.
 Hansen, Phil, A.B., Brigham Young Univ., '35—Richfield, Utah
 Hardaway, Robert Morris, A.B., Univ. of Denver, '36—Ancon, Canal Zone
 Harrell, Julius Grissom—St. Louis, Mo.
 Helm, John Edmund, A.B., Univ. of Ill., '35—Benton, Ill.
 Hess, George J., A.B., Ill. Coll., '34—Litchfield, Ill.
 Hildebrand, William Bennett, B.S., Univ. of Wis., '37—Madison, Wis.
 Hoover, Robert Arlie, A.B., Ft. Hays Kans. State Coll., '35—Macksville, Kans.
 Inderlied, Herman Frederick—Phoenix, Ariz.
 Ingram, Margaret Annand, B.S., Univ. of Ky., '35—Lexington, Ky.
 Jacobson, Leonard Harold, A.B., W. Va. Univ., '36; B.S., W. Va. Univ., '37—
 Flushing, N. Y.
 Johnston, Peter Rich, B.S., Utah State Agri. Coll., '23—Blackfoot, Idaho.
 Jones, Sam, A.B., Univ. of Kans., '35—Hutchinson, Kans.
 Jordan, Fred Covington, Jr., B.S., Univ. of Ariz., '35—Phoenix, Ariz.
 Keys, Edgar Hayden, Jr., A.B., Harvard Univ., '35—University City, Mo.
 Kuhlmann, Raymond Frank, A.B., Univ. of Wis., '36—Milwaukee, Wis.
 Lamar, Robert Frederick, A.B., Univ. of Kans., '35—Kansas City, Mo.
 Latham, Kenyon Stuart, A.B., Univ. of Mo., '35—California, Mo.
 Maxwell, Reuben Jordan, B.S., Ala. Poly. Inst., '36—Alexander City, Ala.
 McElroy, West Glover, B.S., Univ. of Wash., '35—Tacoma, Wash.
 McMahon, John Robert, B.S., Linfield Coll., '35—Shoshone, Idaho
 Melick, William Frank—St. Louis, Mo.
 Milder, Benjamin—University City, Mo.
 Mullen, Aloysius John, B.S., Univ. of Wis., '36—Bronx, N. Y.
 Neubauer, Darwin William, A.B., Washington Univ., '35—Highland, Ill.
 Nuttall, Leonard Wilkins, A.B., Brigham Young Univ., '35—Twin Falls, Idaho
 Passanante, Bartholomew Michael, A.B., Washington Univ., '35—St. Louis, Mo.
 Proud, Gideon O'Neil, A.B., Univ. of Mo., '35—St. Joseph, Mo.
 Reinhard, Edward Humphrey, A.B., Washington Univ., '35—St. Louis, Mo.
 Ritter, Morton David, A.B., Univ. of Ala., '35—Atlantic City, N. J.
 Robinson, Donald Wade, A.B., Univ. of N. Dak., '36; B.S., Univ. of N. Dak., '37—
 Garrison, N. Dak.
 Roper, Stanley Dayton, A.B., S. W. Mo. State Teachers Coll., '35; B.S., Univ. of
 Mo., '37—Ozark, Mo.
 Rossow, Russell J., B.S., Univ. of Wis., '25—St. Louis, Mo.
 Senne, Herbert Carl, A.B., Univ. of Mo., '32; B.S., Univ. of Mo., '37—Sweet
 Springs, Mo.
 Shank, Robert Ely, A.B., Westminster Coll., '35—Normandy, Mo.

Skinner, John Thomas, A.B., Univ. of Mo., '35; B.S., Univ. of Mo., '37—Kansas City, Mo.
 Slusser, Gerald Adelbert, B.Ed., Ill. State Normal Univ., '34—Villa Grove, Ill.
 Smith, Hugh Reinhardt, Jr., A.B., Washington Univ., '35—St. Louis, Mo.
 Starkloff, Gene Baldwin—St. Louis, Mo.
 Thoma, John Walter Richard—Springfield, Ill.
 Tigert, Allen Humphrey, B.S., Univ. of Idaho, '35—Soda Springs, Idaho.
 Towers, Orville White, B.S. in Ed., N. E. Mo. State Teachers Coll., '35; B.S., Univ. of Mo., '37—St. Charles, Mo.
 Van Deventer, James Kendall, A.B., Stanford Univ., '31—Long Beach, Calif.
 Wallace, Samuel Henderson, Jr., A.B., Univ. of Ala., '36—Birmingham, Ala.
 Weaver, Jerome Anderson, A.B., Marietta Coll., '35—Cairo, W. Va.
 Welch, Arnold DeMerritt, B.S., Univ. of Fla., '30; M.S., Univ. of Fla., '31; Ph.D., Univ. of Toronto, '34—Webster Groves, Mo.
 White, Charles Ormond—Belleville, Ill.
 Whitfield, Fred Stewart, Jr., A.B., Univ. of Ala., '36—Moundville, Ala.
 Woll, Maurice, A.B., Washington Univ., '35—Kansas City, Mo.
 Zander, Ernst—Chicago, Ill.
 Zillgitt, George Henry, A.B., Univ. of Mo., '36; B.S., Univ. of Mo., '37—Marthasville, Mo.

Total, 95.

THIRD 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—St. Charles, Mo.
 Bishop, Marion Dale—Hazelton, Kans.
 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., '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—Montevallo, Ala.
 Cayce, Lee 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—Ava, 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—Jefferson City, 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.
 Franklin, Harold Charles, A.B., Grinnell Coll., '34—Atlantic, Iowa.
 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—Vernalis, Calif.
 Gillette, Perry Charles, A.B., Univ. of Utah, '37—St. Louis, Mo.
 Goerger, Verne Fredrick, 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—Gerber, 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.
 Jenkins, Lillian Hall, A.B., Univ. of Mo., '30—Wakefield, Mass.
 Johnson, Charles Henry, A.B., S. W. 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—Tus-cumbia, 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.
 Kohl, Mathias Franz Frederick, B.S., Mount Union Coll., '33; Ph.D., Univ. of Rochester, '38—St. Louis, Mo.
 Landau, Richard Louis—St. Louis, Mo.
 Lindley, Emmett Herbert, A.B., N. W. Mo. State Teachers Coll., '36—Moberly, Mo.
 Long, Thomas Sparrow, B.S., Univ. of N. C., '37—Washington, N. 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.
 Markham, Mary Headlee, A.B., N. J. Coll. for Women, '28, M.S., Rutgers Univ., '30—St. Louis, Mo.
 McCulloch, Jerome Jesse, A.B., Univ. of Mo., '36; B.S., Univ. of Mo., '38—Colum-bia, 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—Iola, 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.
 Sllnd, Ole, Jr., B.S., State Coll. of Wash., '38—La Crosse, Wash.
 Smith, Joseph James—Shattuck, Okla.
 Smith, Robert Moore, Jr., 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., S. E. Mo. State Teachers Coll., '35—Forn-felt, 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.
 Wright, Sydney Thurman, A.B., Fresno State Teachers Coll., '35—Selma, Calif.
 Young, Robert Helm, A.B., Washington Univ., '36—Kirkwood, Mo.

Total, 98.

SECOND 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, Bernhard 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 Wendell, A.B., Friends Univ., '37—Wichita, Kans.
 Black, Thomas William, A.B., Texas Christian Univ., '37—Olney, Ill.
 Bohnert, Earl, A.B., Washington Univ., '37—St. Louis, Mo.
 Bramwell, Donald Marion, B.S., Oregon State Coll., '36—Corvallis, Ore.
 Callaghan, Thomas Joseph, A.B., Stanford Univ., '36—Sacramento, Calif.

- Campbell, Cornelia Ruth, A.B., Texas Christian Univ., '37—Del Rio, Tex.
 Canaga, Bruce Livingston, Jr.—Lima, Peru.
 Caraco, Henry Aaron, A.B., Univ. of Calif. at Los Angeles, '37—Los Angeles, Calif.
 Clymer, James Mitchell, B.S., Southeastern Teachers Coll., '33—Durant, Okla.
 Connolly, Randall, A.B., Ohio Univ., '37—Parkersburg, W. Va.
 Cook, Robert Jerome, A.B., Washington Univ., '37—St. Louis, Mo.
 Cross, James Hamilton, A.B., Washington Univ., '37—Dahlgren, Ill.
 Dickerson, Robert Brooks, A.B., Pomona Coll., '33—San Diego, Calif.
 Ellis, Calvin Carlyle, A.B., Washington Univ., '37—Okmulgee, Okla.
 Ellman, Alexander, B.S., Univ. of Ark., '37—Brooklyn, N. Y.
 Erganian, Jane Arax, A.B., Washington Univ., '37—Webster Groves, Mo.
 Fildes, Charles Edward—Olney, Ill.
 Garretson, Kirk Durand, A.B., Univ. of Calif., '37—Oakland, Calif.
 Gilster, Paul, A.B., Washington Univ., '36—Clayton, Mo.
 Glaser, Joseph Louis, A.B., Washington Univ., '37—St. Louis, Mo.
 Goldberg, Joseph Louis, A.B., Univ. of Pa., '37—Chester, Pa.
 Gollub, Samuel Walter—St. Louis, Mo.
 Graybill, John Gilbert, A.B., Westminster Coll., '37—Webster Groves, Mo.
 Guterman, Henry Samuel, A.B., Clark Univ., '37—Worcester, Mass.
 Hertz, Sylvan Altschiller, B.S., Univ. of Okla., '36—New York, N. Y.
 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.
 La Force, Richard Francis, A.B., Univ. of Mo., '37—Lamar, Mo.
 Lee, John Portmess, A.B., Hanover Coll., '36—Rochester, N. Y.
 Letterman, Gordon Sparks, A.B., Washington Univ., '37—St. Louis, Mo.
 Mariea, Donald James, B.S., Univ. of Toledo, '36—Toledo, Ohio
 Mark, Philip Frederick, A.B., Univ. of Ark., '37—Eureka Springs, Ark.
 Martin, Samuel Preston—East Prairie, Mo.
 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, Vernette Austin, A.B., Municipal Univ. of Wichita, '38—Wichita, Kans.
 Nunn, Chester McLeod, A.B., Washington Univ., '34; M.S., Washington Univ., '36—Clarksville, Mo.
 Ozment, Thomas Lewis, A.B., Washington Univ., '37—Harrisburg, Ill.
 Phillips, Alroy Bradbury, A.B., Westminster Coll., '37—St. Louis, Mo.
 Pickett, Frank Joseph, A.B., Westminster Coll., '36—Joplin, Mo.
 Price, William Phillip—Little River, Kans.
 Putnam, John Andrews, A.B., Yale Coll., '32—Carthage, Mo.
 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.
 Schneider, Eldee Lewis—Dodge City, Kans.
 Schwarz, Henry—St. Louis, Mo.
 Shier, Julius Milton, A.B., Washington Univ., '37—Passaic, N. J.
 Singleton, Virginia, B.S., Western Ky. State Teachers Coll., '37—Bowling Green, Ky.
 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
 Stewart, Robert Wendell, B.S., Drury Coll., '37—Springfield, Mo.
 Sutherland, Earl Wilbur, Jr., B.S., Washburn Coll., '37—Burlingame, Kans.
 Tompkins, Anne, B.S., Union Univ., '38—Burdette, Ark.
 Tompkins, Souther Fulton, A.B., Washington and Lee Univ., '37—Lexington, Va.
 Topp, William Leon, B.S., Univ. of Wash., '36—Seattle, Wash.
 Whitson, Betty, A.B., Univ. of Oreg., '36—Boise, Idaho
 Williams, Charles Sampson—Malden, Mo.
 Womble, James George, A.B., Washington Univ., '37—Muskogee, Okla.
 Yanow, Mitchell—Madison, Ill.
 Yarbrough, Charles Lee—Cairo, Ill.

Total, 77.

FIRST YEAR CLASS — 1938-39

- Anderson, William Morris, B.S., Coll. of William and Mary, '38—Cramerton, N. C.
 Beadles, Joseph Nathan, A.B., Ill. Wesleyan Univ., '37—Bloomington, Ill.
 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—Davidson, N. C.
 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—Springfield, Mo.
 Crenshaw, James Faulkner, B.S., Birmingham Southern Coll., '38—Birmingham,
 Ala.
 Davis, William Joseph, B.S., Univ. of Wash., '38—Spokane, Wash.
 Devereux, Edwin Ewing, A.B., Fresno State Teachers Coll., '38—Fresno, Calif.
 Eck, Birkle, A.B., Washington Univ., '38—St. Louis, Mo.
 Eliasberg, Alex—New York, N. Y.
 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.
 Giacinto, Vincent Louis, A.B., Johns Hopkins Univ., '38—Bayonne, N. J.
 Gibbel, Melvin I., 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.
 Graham, Floyd Lee—North Platte, Nebr.
 Graul, Walter Philip, A.B., Valparaiso Univ., '38—St. Louis, Mo.
 Groshart, Gene Marion, B.S., Univ. of Wyo., '38—Worland, 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 Le Roy—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., St. Coll. of Wash., '38—Spokane, Wash.
 Love, Frances Houshall, A.B., Rice Inst., '37—Houston, Tex.
 Madonia, Angelo Joseph, A.B., Univ. of Rochester, '38—Rochester, N. Y.
 Martz, John Charles, A.B., Univ. of Mo., '38—Kirkwood, Mo.
 Mayfield, James Logan—Crystal City, Mo.
 McAfee, Chester Alan—Long Beach, Calif.
 McCorkle, Elbert Lee, A.B., Mo. Valley Coll., '38—Marshall, Mo.
 McKemie, Jack Furman, B.S., Agri. and Mech. Coll. of Tex., '38—Hearne, Tex.
 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.
 Mueller, Charles Barber, A.B., Univ. of Ill., '38—Carlinville, Ill.
 Neavles, Jackson Coll, A.B., Washington Univ., '38—Webster Groves, Mo.
 Parker, Charles Melville, A.B., Stanford Univ., '38—Pasadena, Calif.
 Phillips, Donald McCracken, A.B., Washington Univ., '37—Clear Lake, Iowa
 Pillsbury, Ruth Merrill, 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., '38—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., Washing-
 ton Univ., '38—Great Neck, N. Y.
 Stortz, Robert Benjamin—Pomona, Calif.
 Sunseri, Joseph James—San Jose, 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.

West, John Wright—Billings, Mont.
 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 Kans., '38—Clay Center, Kans.
 Zell, Augustine Bernard, B.S., Univ. of Notre Dame, '38—Little Rock, Ark.
 Total, 77.

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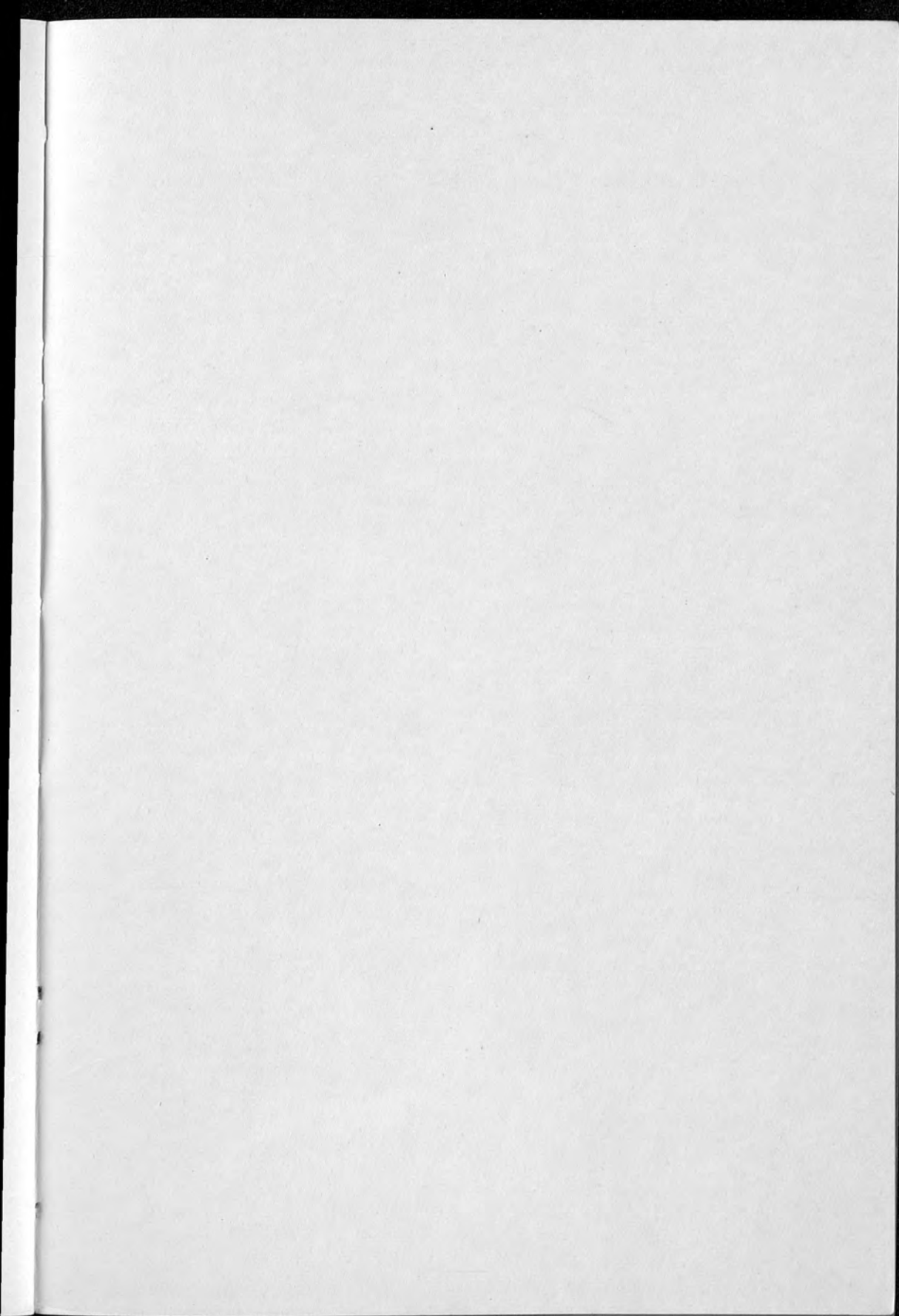
Bottom, Donald Stewart, A.B., Washington Univ., '32—St. Louis, Mo.

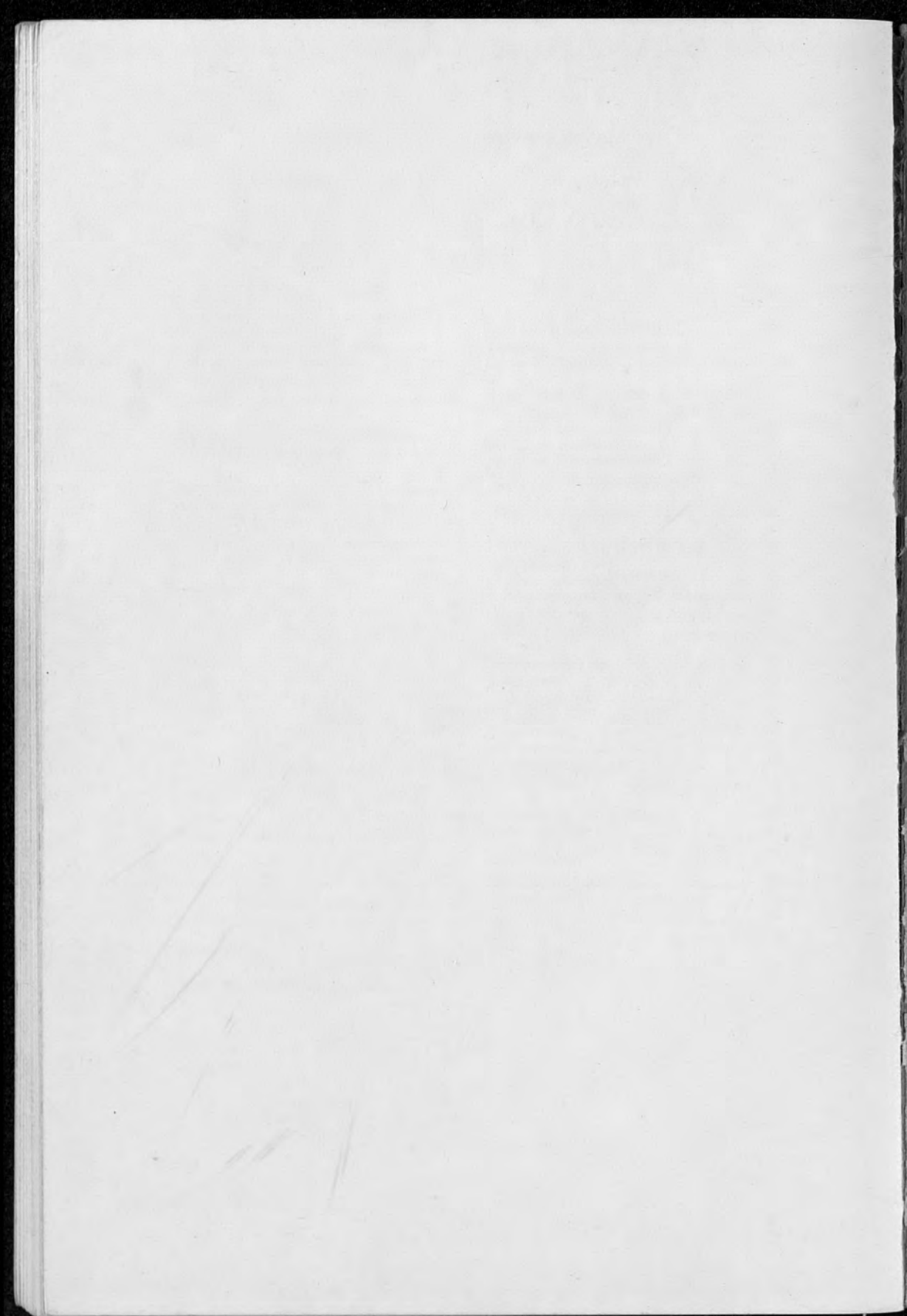
SUMMARY OF STUDENTS IN THE SCHOOL OF MEDICINE

Graduate Students.....	50
Fourth Year Class.....	95
Third Year Class.....	98
Second Year Class.....	77
First Year Class.....	77
Special Student.....	1
	<hr/>
Total,	398

INDEX

	PAGE		PAGE
Admission		Leo Loeb Lectureship	62
Requirements for	55	Library	53
to Advanced Standing	57	Loan Funds	63
to Graduate Courses	59		
Anatomy	70	McMillan Hospital and Oscar	
		Johnson Institute Board of	
Bacteriology and Immunology....	73	Directors	31
Biological Chemistry	72	Medical Economics	93
		Medical Jurisprudence	93
Calendar	3	Military Science and Tactics	92
Clinical Facilities	52		
Clinics Staff	43	Neuropsychiatry	80
Committees	29		
Corporation, The	5	Obstetrics and Gynecology	88
Courses		Officers	
Post-Graduate	93	Business and Other	30
Schedule of	95	Government and Instruction..	6
Curriculum	69	Ophthalmology	87
		Otolaryngology	87
Degrees			
Conferred in June, 1938	109	Pathology	75
Requirements for	60	Pediatrics	90
Dermatology	81	Pharmacology	76
Dormitory	66	Physical Therapeutics	93
		Physiology	72
Executive Faculty	29	Prizes	61
Expenses	66	Professional Conduct	93
		Public Health	74
Fees	64, 65		
Fellowships	62	Radiology	86
		Registration	64
Historical Statement	50	Robert J. Terry Lectureship	62
Hospital			
Appointments	61	Scholarships	62
Staffs	32	Social Service Department	31
		Standing and Promotion	59
Instruction		Stomatology	93
General Plan of	67	Students	
Internal Medicine	77	Roster of	111
		Surgery	82





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