

BULLETIN
OF
WASHINGTON UNIVERSITY
ST. LOUIS



FORTY-FIRST ANNUAL
CATALOGUE
OF
THE SCHOOL OF MEDICINE

MARCH 20, 1930

PUBLICATIONS OF WASHINGTON UNIVERSITY
SERIES II VOLUME XXVIII NUMBER VI

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BULLETIN
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CALENDAR

1929

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	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
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22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	29	30	31	29	30	31	29	30	31

1930

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

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	6	1	2	3	4	1	1	2	3	4	5	6
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28	29	30	28	29	30	31	28	29	30	31	28	29	30	31

1931

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

CALENDAR

1929-30

Registration, Monday, September 23, to Wednesday, September 25, 1929, inclusive.

Examinations for Advanced Standing and Removal of Conditions, Monday, September 23, to Wednesday, September 25, 1929, inclusive.

Academic Year (First Trimester) begins Thursday, September 26, 1929.

Holiday, Thanksgiving Day, Thursday, November 28, 1929.

First Trimester ends Saturday, December 14, 1929.

Second Trimester begins Monday, December 16, 1929.

Christmas Recess, Monday, December 23, 1929, to Saturday, January 4, 1930, inclusive.

Registration for Second Half-Year, Friday, January 31, and Saturday, February 1, 1930.

Holiday, Washington's Birthday, Saturday, February 22, 1930.

Second Trimester ends Saturday, March 15, 1930.

Third Trimester begins Monday, March 17, 1930.

Holiday, Good Friday, April 18, and Saturday, April 19, 1930.

Holiday, Decoration Day, Friday, May 30, 1930.

Third Trimester ends Saturday, May 31, 1930.

Final Examinations begin Monday, June 2, 1930.

Commencement, Tuesday, June 10, 1930.

1930-1931

Registration, Monday, September 22, to Wednesday, September 24, 1930, inclusive.

Examinations for Advanced Standing and Removal of Conditions, Monday, September 22, to Wednesday, September 24, 1930, inclusive.

Academic Year (First Trimester) begins Thursday, September 25, 1930.

Holiday, Thanksgiving Day, Thursday, November 27, 1930.

First Trimester ends Saturday, December 13, 1930.

Second Trimester begins Monday, December 15, 1930.

Christmas Recess, Monday, December 22, 1930, to Saturday, January 3, 1931, inclusive.

Registration for Second Half-Year, Friday, January 30, and Saturday, January 31, 1931, inclusive.

Holiday, Washington's Birthday, Monday, February 23, 1931.

Second Trimester ends Saturday, March 14, 1931.

Third Trimester begins Monday, March 16, 1931.

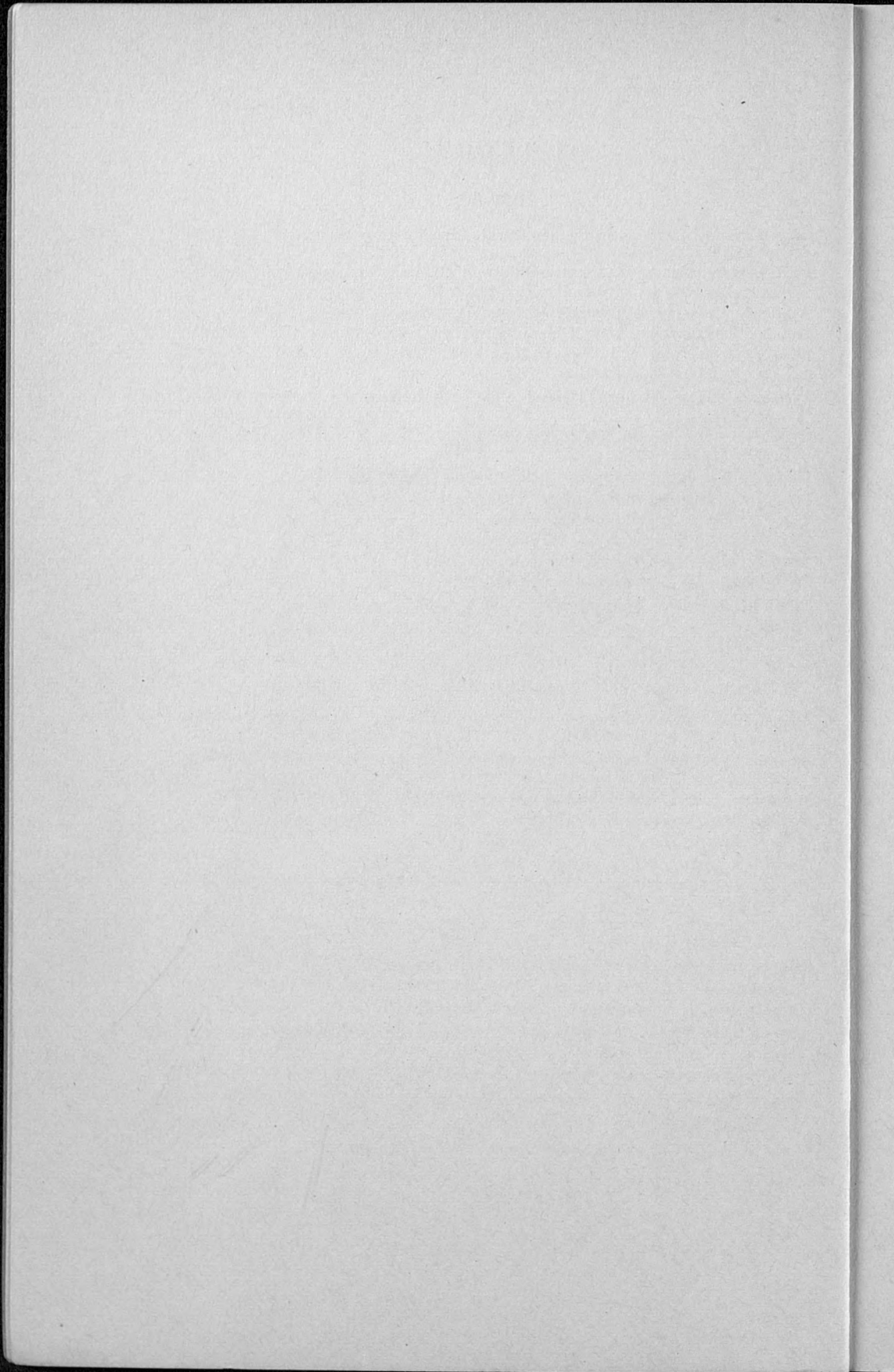
Holiday, Good Friday, April 3, and Saturday, April 4, 1931.

Third Trimester ends Friday, May 29, 1931.

Holiday, Decoration Day, Saturday, May 30, 1931.

Final Examinations begin Monday, June 1, 1931.

Commencement, Tuesday, June 9, 1931.



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A.B., DePauw University, 1901; A.M., DePauw University, 1903; Ph.D.,
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A.B., Cornell University, 1904; A.M., 1905.

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A.B., University of Missouri, 1921.

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B.S., University of California, 1895; M.D., Johns Hopkins University,
1899. *Physiologist to Barnes and St. Louis Children's Hospitals.*

PHILIP ANDERSON SHAFFER, PH.D. *Professor of Biological
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A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904.
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Anthropologist to Barnes and St. Louis Children's Hospitals.

LEO LOEB, M.D. . . *Edward Mallinckrodt Professor of Pathology*
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B.S., University of North Carolina, 1904; M.D., Cornell University, 1910.
Physician in Chief to St. Louis Children's Hospital; Pediatrician in Chief

¹ Arranged in groups in the order of appointment.

to St. Louis Maternity Hospital and Washington University Dispensary; and Consulting Physician, St. Louis Isolation Hospital.

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A.B., Princeton University, 1904; M.D., Rush Medical College, 1907; LL.D. (Hon.), Central College, 1926; Sc.D., University of Cincinnati, 1927; M.S. (Hon.), Yale University, 1928; Sc.D. (Hon.), Princeton University, 1929. *Surgeon in Chief to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals, and Washington University Dispensary.*

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A.B., University of Wisconsin, 1910, and A.M., 1911; M.D., Johns Hopkins University, 1915. *Pharmacologist to Barnes and St. Louis Children's Hospitals.*

DAVID PRESWICK BARR, M.D., LL.D. . . *Busch Professor of Medicine*

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M.D., Washington University, 1905. *Roentgenologist to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals.*

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A.B., University of Michigan, 1904; M.D., University of Pennsylvania, 1908; A.M., Harvard University, 1917; Oph.D., University of Colorado, 1918. *Ophthalmologist in Chief to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals; Ophthalmologist in Chief and Chief of Ophthalmological Clinic, Washington University Dispensary.*

LEE WALLACE DEAN, M.D. *Professor of Oto-Laryngology*

B.S., University of Iowa, 1894; M.S., and M.D., 1896. *Oto-Laryngologist in Chief to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals; Oto-Laryngologist in Chief and Chief of Oto-Laryngological Clinic, Washington University Dispensary.*

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B.A., University of Toronto, 1909; Ph.D., University of Chicago, 1912.

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 1916; Ph.D., University of Pennsylvania, 1918, and M.D., 1924.

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M.B., University of Toronto, 1926.
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- ALFRED GOLDMAN, M.D. *Instructor in Clinical Medicine*
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- JAMES M. DOUGLAS, LL.B. *Lecturer in Medical Jurisprudence*
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ELMER RICHMAN, M.D.....*Assistant in Clinical Medicine*

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FELLOWS

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 LAWRENCE E. DARROUGH, M.D.
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 LELAND H. PREWITT, M.D.

Ophthalmologist in Chief

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 OPH.D.

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 WILLIAM F. HARDY, M.D.
 FREDERICK E. WOODRUFF, M.D.
 MAX W. JACOBS, M.D.
 LAWRENCE POST, M.D.
 M. HAYWARD POST, M.D.
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Associate Pathologist

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Assistant Pathologist

WALTER J. SIEBERT, M.D.

Resident Pathologist

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Stomatologist

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 WILLIAM F. HARDY, M.D.

LAWRENCE POST, M.D.
M. HAYWARD POST, M.D.

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HELEN GAGE, M.D.
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*Oto-Laryngologist in Chief
and Chief of Clinic*
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LIONEL S. LUTON, M.D.
CHARLES E. GILLILAND, M.D.

ROLAND M. KLEMME, M.D.
I. Y. OLCH, M.D.
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PETER HEINBECKER, M.D.

Surgery

DUFF S. ALLEN, M.D.
WARREN H. COLE, M.D.

Obstetrics

E. LEE DORSETT, M.D.
ADOLPH G. SCHLOSSSTEIN, M.D.

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BORDEN S. VEEDER, M.D.

ADRIEN BLEYER, M.D.

Consultants in Oto-Laryngology

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FRENCH K. HANSEL, M.D.

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CITY SANITARIUM

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- Philo Stevenson, A.B. *Alumni Representative and Editor of the Washingtonian*
- Dudley Reeves Smith, M.D. . . . *Resident Physician of University*
- Grace Maria Denison, A.B. . . . *Secretary to the Chancellor*
- Frances Agnes Clesse, B.C.S. . . . *First Assistant Treasurer, and Assistant Secretary to the Corporation*
- Anna Dueker *Second Assistant Treasurer*
- Ella B. Lawrence *Librarian (School of Medicine Library)*
- Maude McFarland Hennessey . . *Assistant Librarian (School of Medicine Library)*
- Harry J. Stiebel *Chief Engineer*
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Joseph Erlanger, M.D.	Otto H. Schwarz, M.D.
Philip A. Shaffer, Ph.D.	Sherwood Moore, M.D.
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Louis H. Burlingham, M.D.	Lee W. Dean, M.D.
Evarts A. Graham, M.D.	Edmund V. Cowdry, Ph.D.
Herbert S. Gasser, M.D.	Jacques J. Bronfenbrenner, Ph.D., Dr.P.H.
David P. Barr, M.D.	
Leo Loeb, M.D.	

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

GENERAL FACULTY

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

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Ernest Sachs	Robert J. Terry.
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	Philip A. Shaffer

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Harry L. Alexander	Major G. Seelig
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Louis H. Burlingham, *Chairman*

David P. Barr	W. McKim Marriott
Evarts A. Graham	Harvey J. Howard
Leo Loeb	Lee W. Dean
	Otto H. Schwarz

Committee for the St. Louis Children's Hospital

W. McKim Marriott, *Chairman*

Evarts A. Graham	Estelle Claiborne
	Lee W. Dean

Committee for the St. Louis Maternity Hospital

Otto H. Schwarz, *Chairman*

Evarts A. Graham	Isabelle M. Baumhoff
W. McKim Marriott	Frederick J. Taussig

Committee for the Mallinckrodt Radiological Institute

Sherwood Moore, *Chairman*

Evarts A. Graham	David P. Barr
Philip A. Shaffer	Robert J. Terry
W. McKim Marriott	Arthur L. Hughes

*Committee for the McMillan Hospital*Harvey J. Howard, *Chairman*

Evarts A. Graham	Lee W. Dean
	W. McKim Marriott

Faculty Representative to the Barnes Hospital Board

Evarts A. Graham

David P. Barr, *Chairman*Arthur O. Fisher, *Secretary*

Evarts A. Graham	John V. Lawrence
W. McKim Marriott	Harvey J. Howard
Louise G. Peel	Malvern B. Clopton
Otto H. Schwarz	Edith Baker
Louis H. Burlingham	Lee W. Dean

The *Advisory Board of the Dispensary* is composed of the chiefs of each of the clinics and the Director of St. Louis Hospital Social Service.

*Committee on Admissions and Promotions*W. McKim Marriott, *Chairman*

Herbert S. Gasser	Harvey J. Howard
Evarts A. Graham	Edmund V. Cowdry

*Committee on Loans and Scholarships*Robert J. Terry, *Chairman*

Harry L. Alexander	Glover H. Copher
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*Committee for the Department of Social Service*Malvern B. Clopton, *Chairman*

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Otto H. Schwarz	Mrs. Robert A. Holland, Jr.
Jean V. Cooke	Mrs. Daniel K. Catlin
John V. Lawrence	Edith Baker
	David P. Barr

*Committee for the St. Louis City Hospital*David P. Barr, *Chairman*

Walter Fischel	Warren R. Rainey
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*Officers of the Washington University Medical Society*Lawrence D. Thompson, *President*Leon Bromberg, *Secretary*

DEGREES CONFERRED

The degree of Doctor of Medicine was conferred upon the following, June 11, 1929:

Alperin, Jacob.....	Memphis, Tenn.
A.B., Johns Hopkins Univ., '25.	
Apple, Elbert Dwight.....	Reidsville, N. C.
B.S., Univ. of N. C., '26.	
Appleberry, Charles Homer.....	Farmington, Mo.
A.B., Univ. of Mo., '26.	
B.S., Univ. of Mo., '27.	
Ball, Lawrence Carter.....	Harlan, Ky.
A.B., Univ. of Kentucky, '25.	
Bickel, Carl Samuel.....	Albany, Mo.
Boren, Paul Randolph.....	Poseyville, Ind.
B.S., Earlham Coll., '25.	
Browning, Clyde Forest.....	Selma, Cal.
Burpee, George Frederick.....	Jamesville, Wis.
B.S., Univ. of Wis., '28.	
Clary, Gerald George.....	San Francisco, Cal.
A.B., Stanford Univ., '25.	
Dalton, Ralph Edward.....	Spokane, Wash.
DeFreitas, Estella Eunice.....	Georgetown, British Gulana
B.S., Washington Univ., '27.	
Dowell, Donald Maurice.....	Braymer, Mo.
Drews, Leslie Charles.....	St. Louis, Mo.
B.S., Washington Univ., '27.	
Edmeades, Willard Sefton.....	Portland, Ore.
B.S., Univ. of Wash., '25.	
Edwards, Grace.....	Seattle, Wash.
B.S., Earlham Coll., '20.	
Emery, Frank Addison.....	Wichita, Kan.
Eschenbrenner, John William, Jr.....	East St. Louis, Ill.
B.S., Washington Univ., '27.	
Finn, Walton Chaffee.....	Santa Ana, Cal.
A.B., Univ. of Wis., '26.	
Fishman, Jacob.....	Chicago, Ill.
Forsee, James Hedges.....	Columbia, Mo.
A.B., Univ. of Mo., '26.	
B.S., Univ. of Mo., '27.	
Freshman, Alexander William.....	Denver, Colo.
George, William Smith.....	Holden, Mo.
B.S., Central Mo. State Teachers Coll., '25.	
Goldwasser, Herbert Valentine.....	St. Louis, Mo.
B.S., Washington Univ., '27.	
Hamm, Lee Norman.....	Granite City, Ill.
Hardy, Guerdan.....	St. Louis, Mo.
Harms, Florian L.....	Keytesville, Mo.
B.S., Univ. of Mo., '27.	
Hathcock, Preston Loyce.....	Fayetteville, Ark.
A.B., Univ. of Ark., '25.	
Helfetz, Carl Jacob.....	St. Louis, Mo.
B.S., Washington Univ., '27.	
Helstrom, Gordon Louis.....	Willapa, Wash.
B.S., Univ. of Wash., '25.	
Henderson, Jesse Lester.....	Franklin, Ill.
B.S., Eureka Coll., '24.	
Hon. Noka B.....	Parkville, Mo.
A.B., Park Coll., '22.	
Horwitz, Irwin Bennett.....	St. Louis, Mo.
A.B., Washington Univ., '25.	
Hosepian, Haig Mitchell.....	Kirksville, Mo.
A.B., Stanford Univ., '22.	
Huntley, Charles Clayborne.....	Micola, Mo.
Johnson, Craig Byron.....	Columbia, Mo.
A.B., Univ. of Mo., '25.	
B.S., Univ. of Mo., '26.	

Joraschky, Walter Robert.....	St. Louis, Mo.
B.S., Washington Univ., '16.	
Jump, Clarence Elbert.....	Gerald, Mo.
B.S., Univ. of Mo., '27.	
Kaufman, Abraham I.....	St. Louis, Mo.
Kleine, Hans Louiss.....	St. Louis, Mo.
B.S., Washington Univ., '27.	
Kovitz, Louis.....	Kansas City, Mo.
A.B., Univ. of Mo., '24.	
Leuschner, Armin Walter.....	Belleville, Ill.
Lindley, E. C. (Cum Laude).....	Stanberry, Mo.
Macnish, James Martin.....	St. Louis, Mo.
A.B., Cambridge Univ., '27.	
Marmor, William Adolph.....	St. Louis, Mo.
B.S., Washington Univ., '27.	
McLaughlin, Charles William.....	Washington, Iowa
B.S., State Univ. of Iowa, '27.	
Mueller, Adolph Reginald.....	St. Louis, Mo.
Mueller, Roland Frederick (Cum Laude).....	Kansas City, Mo.
Neese, Kenneth Earle.....	Graham, N. C.
Pakula, Sidney.....	Raleigh, N. C.
Parker, Robert Frederic (Cum Laude).....	Alton, Ill.
B.S., Washington Univ., '27.	
Peterson, Vernon Leslie.....	Latah, Wash.
B.S., State Coll. of Wash., '29.	
Phillips, Neal John.....	Chicago, Ill.
A.B., Univ. of Wis., '26.	
Phillips, Robert Allan (Cum Laude).....	Clear Lake, Iowa
B.S., State Univ. of Iowa, '27.	
Pruett, Burchard Simpson.....	St. Louis, Mo.
Queen, Frank B.....	Thornton, Wash.
B.S., Spokane Univ., '24.	
B.S., State Coll. of Wash., '25.	
Rivera, Gabriel Alfonso.....	Los Angeles, Cal.
Robertson, Donald Ford (Cum Laude).....	St. Louis, Mo.
A.B., Univ. of Mo., '25.	
A.M., Univ. of Mo., '27.	
Rowlette, Avery Peck.....	Chillicothe, Mo.
Salzman, J. Marvin.....	Springfield, Ill.
Sams, Crawford Fountain.....	East St. Louis, Ill.
A.B., Univ. of Cal., '25.	
M.S., Washington Univ., '27.	
Scharles, Frederick Herman (Cum Laude).....	Kansas City, Mo.
Shaw, Henry Carlisle.....	Greensboro, N. C.
Shelton, William Prior.....	Kansas City, Mo.
Shlenker, Lenard L.....	Ft. Smith, Ark.
B.S., Univ. of Chicago, '23.	
Slater, Frank Joseph.....	Savannah, Ga.
B.S., Univ. of Ga., '25.	
Slater, Paul Raymond.....	Moline, Ill.
B.S., Eureka Coll., '25.	
Staehle, Melvin Everett.....	St. Louis, Mo.
Stuck, Walter Goodloe.....	Jonesboro, Ark.
B.S., Emory Univ., '26.	
Trelman, Robert Crage.....	St. Louis, Mo.
Varden, Arthur Edward.....	San Bernardino, Cal.
Weber, Frank Clifford.....	Olney, Ill.
Weber, Lawrence Frank.....	Ingraham, Ill.
Wilson, Thomas Phillip.....	St. Louis, Mo.
Wolf, Artemus Ford.....	Fayetteville, Ark.
A.B., Univ. of Ark., '25.	

Total, 74

Prize Awarded at Commencement, June 11, 1929

Gill Prize in Anatomy

John Keller Mack, B.S.

GENERAL STATEMENT

HISTORY AND ORGANIZATION

On the 22nd of February, 1853, at the instance of Wayman Crow, Esq., a member of the State Senate, the Legislature of Missouri granted a charter to an educational institution to be located in the city of St. Louis, and to bear the name ELIOT SEMINARY, in honor of the Rev. William G. Eliot, of St. Louis.

The charter was to be perpetual, and no limitations were imposed, excepting those which forbade any sectarian or partisan instruction. The first meeting of the Corporation named in the charter of incorporation was held on the 22nd of February, 1854. In deference to the wishes of the Rev. Dr. Eliot, the name of the institution was changed. Since the charter had been granted on the 22nd of February, the birthday of Washington, and since the meeting of the Corporation for organization had also occurred on this same anniversary, the name of the institution was changed from Eliot Seminary to WASHINGTON INSTITUTE, which in 1857 became, by a change in the charter, WASHINGTON UNIVERSITY. It seemed to the founders that the name was significant of the character of the institution which they sought to found. The first Board of Directors was composed of seventeen well-known, public-spirited citizens of St. Louis, who were named in the charter, and who were given the power to fill vacancies in their number caused by death or resignation.

The first educational work done under the charter of 1853 was the opening of an evening school for boys, in a building on Sixth Street, during the winter of 1854-55. This school was called the "O'Fallon Polytechnic Institute," in honor of Colonel John O'Fallon, for years one of the University Directors, and was in charge of Messrs. Jeremiah D. Low and Nathan D. Tirrell. This evening school, and a day school which had been in operation for some time before this period, were carried on together by the same teachers until, in September, 1856, a building on Seventeenth Street was completed and occupied by the day school. The evening school was sustained for several years by the University, until by special arrangement the entire care of this school was

assumed by the Public School Board. This school on Seventeenth Street, the forerunner of Smith Academy, formerly a secondary school conducted under the charter of the University, was the real beginning of Washington University.

The formal inauguration of the University took place on the 23rd of April, 1857. The leading feature of its exercises was an oration by the Hon. Edward Everett, of Massachusetts, upon "Academic Education," delivered in Mercantile Library Hall. Later in the year a building was erected for the chemical laboratory. In the next year the organization of the College was completed, and the first College degrees were granted in 1862.

The east wing of the main building on Washington Avenue and Seventeenth Street, of which the academic building formed the south wing, was erected in 1858 and used for College classes; the west wing was added in 1871 and devoted to the uses of the Polytechnic School.

In the meantime the University had been growing, adding new departments, and receiving additional endowments. The Law School was organized in 1867; the Polytechnic School, now known as the Schools of Engineering and Architecture, in 1870; the School of Fine Arts in 1879; the School of Botany in 1885. The St. Louis Medical College, founded in 1842, was admitted as a department of the University in 1891, and the Missouri Dental College in 1892. In 1899 the Missouri Medical College, which was founded in 1840, was united with the St. Louis Medical College to form the Medical School of Washington University. In the autumn of 1909 the St. Louis School of Philanthropy was taken over from the control of the University of Missouri, and affiliated with Washington University as the School of Social Economy; in February, 1913, it was made a department of the University. By action of the Corporation on February 5, 1915, this School was discontinued as a department of the University at the close of the academic year 1914-15. The Division of University Extension was formally organized with both Evening and Saturday Courses in the fall of 1915. The School of Commerce and Finance was organized March 30, 1917, and formally opened in September, 1917. July 1, 1926, the name was changed to the School of Business and Public Administration. By act of the Corporation on April 25, 1918, the terms, the School of

Law, the School of Medicine, the School of Dentistry were adopted as the official names of what were previously known as the Law School, the Medical School, the Dental School. While graduate work leading to the master's and doctor's degrees had been effectively done for many years in a number of the University's departments of instruction, a graduate school was not officially organized until June 6, 1922, at which time the Corporation passed an ordinance creating The School of Graduate Studies and providing for its government and administration. By act of the Corporation, March 2, 1923, there was established a separate Graduate School of Economics and Government, with a Residence Foundation in the city of Washington for the third or thesis year students in order that they might take advantage of the facilities offered at the National Capital for the investigation of the problems involved in their subjects. After a year's experience it became evident that, through the importance and development of this work and the difficulties of administration at a distance, it would be advisable that the School should be organized as a separate institution. This was accomplished in 1924, under the name "The Robert Brookings Graduate School of Economics and Government," which accepts second year graduate students in Economics, and Social and Political Science. The first session of the Summer School was held in the summer of 1924. The School of Nursing, which was started in 1905, was established by vote of the Corporation as a degree conferring school, on April 10, 1924.

In 1879 the Academy, which was the first school in operation under the charter, was transferred from the old building on Seventeenth Street and Washington Avenue to a new building on Nineteenth Street and Washington Avenue, erected by funds which came to the Chancellor from James and Persis Smith, and the school was known as Smith Academy, in their honor. Mary Institute, a school for girls, was organized in 1859, and the Manual Training School in 1879. By action of the Corporation on February 5, 1915, the Smith Academy and the Manual Training School were united under the name Smith Academy-The Manual Training School. This action took effect July 1, 1915. On March 30, 1916, the Corporation voted to discontinue Smith Academy on June 30, 1917. The Corporation also voted that,

beginning with the fall semester, 1917, instruction in manual training be confined to the undergraduate department, and be conducted in the shops on the main campus.

In 1894 a tract of land, of which the University now owns about 155 acres, was purchased just outside the city limits, northwest of Forest Park. The generosity of the citizens of St. Louis made it possible to adopt plans for building and to begin work at once. Twenty-two buildings and eight fraternity houses have been erected and the new site has been in the possession of the University since January 30, 1905.

In 1910 the Corporation of the University, appreciating the valuable service which a medical school can render to the community, with the coöperation of the Medical Faculty, reorganized the School in all departments and appointed heads of departments and instructors in anatomy, physiology, biological chemistry, pathology, medicine, surgery, and pediatrics, who devote themselves to teaching and research, and associated with this staff clinical instructors chosen from the medical profession of St. Louis.

In 1914 the Washington University School of Medicine moved from its old location on the corner of Eighteenth and Locust Streets 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 Institute for Research in Ophthalmology and Oto-Laryngology, and the Mallinckrodt Radiological Institute. The McMillan Eye, Ear, Nose, and Throat Hospital, the Oscar Johnson Institute, and the Mallinckrodt Radiological Institute are owned by the University. The Barnes Hospital, the St. Louis Children's Hospital, and the St. Louis Maternity Hospital have entered into an affiliation with the School of Medicine by which the Faculty of the School of Medicine constitutes the medical staffs and supplies laboratory service, and the hospitals permit the School of Medicine to use their wards for teaching and investigation.

Construction of the Mallinckrodt Radiological Institute was begun in the fall of 1929 and will be finished during the year

1930. This Institute will provide the radiological service for the hospitals of the University group. The Institute will also contain laboratories for research in the physics and biology of radiation. The combined building of the McMillan Eye, Ear, Nose, and Throat Hospital and the Oscar Johnson Institute will be finished during the year 1930. The Oscar Johnson Institute will contain five floors devoted to research and teaching in the fields of Ophthalmology and Oto-Laryngology.

In 1919 the Department of Pharmacology was organized; in 1924 the Department of Bacteriology and Immunology; in 1927 the Department of Obstetrics was placed on a full-time basis; and in 1929 the Departments of Ophthalmology and Oto-Laryngology were reorganized on a full-time basis. The Mallinckrodt Radiological Institute, now under construction, will accommodate the Department of Radiology.

These developments have been made possible by the generous gifts of citizens of St. Louis and the General Education Board.

Graduates of the St. Louis Medical College number 2,125; of the Missouri Medical College, 2,915; and of the Medical Department of Washington University, 1,468.

THE BUILDINGS OF THE SCHOOL OF MEDICINE

The four buildings of the School of Medicine are connected by corridor and tunnel with the Barnes Hospital, the St. Louis Children's Hospital, the St. Louis Maternity Hospital, and the McMillan Hospital and Oscar Johnson Institute. They are the Building for the Dispensary and Hospital Laboratories, the North Laboratory Building, the South Laboratory Building, and the Mallinckrodt Radiological Institute.

IN THE BUILDING FOR THE DISPENSARY AND HOSPITAL LABORATORIES, the Dispensary occupies the first floor and basement, the Laboratory of Internal Medicine the second floor, and the departments of Pathology, and Bacteriology and Immunology the upper two floors, together with a western extension of the building connecting it with the Barnes Hospital, and containing the mortuary and the autopsy amphitheater.

THE NORTH LABORATORY BUILDING contains the administrative offices of the School of Medicine, the Assembly Hall, the Library, and the Departments of Experimental Surgery and Anatomy.

THE SOUTH LABORATORY BUILDING accommodates the Departments of Biological Chemistry, Pharmacology, and Physiology.

NURSES' RESIDENCE

This building is located on Kingshighway facing Forest Park. It is of concrete construction and fire-proof. On the first floor are reception rooms, a class room, and administrative offices. The upper floors are arranged to accommodate 377 nurses.

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 for research in Ophthalmology and Oto-Laryngology, with the Washington University School of Medicine makes these institutions for teaching purposes integral parts of the School of Medicine. These hospitals offer opportunities for study and observation in every important branch of medicine, and are closely connected with the Dispensary conducted by the University, which serves as the Out-Patient Department of the hospital. This assures to the student unusual advantages in clinical work. The attending staffs of the University Hospitals consist of the heads of the University Departments of Medicine, Surgery, Obstetrics and Gynecology, Pediatrics, Ophthalmology, and Oto-Laryngology, with their associates and assistants.

Free and pay patients may be admitted to all of the hospitals in the University group, but every effort is made to prevent the pauperization of the individual, and patients who are able to pay are expected to meet the nominal rates in force.

In the hospitals there is adequate laboratory equipment for the investigations necessary in diagnosis. In addition to the ward laboratories, there are special laboratories in all departments with facilities for research workers.

THE BARNES HOSPITAL

The buildings of the Barnes Hospital are situated on Kingshighway facing Forest Park on the south and west.

With the space in the private pavilion the capacity of the Barnes Hospital is approximately 300 beds.

In the summer of 1929 demolition of the three-story surgical ward of Barnes Hospital was begun in order to make way for a new surgical pavilion, the Rand-Johnson Memorial Building. This will be completed during the year 1930, and will provide for nearly 300 additional beds. During construction, rearrangements within the hospital have made it possible to care for 90 per cent as many patients as normally.

The Hospital contains numerous class rooms, laboratories, lecture rooms, and examining rooms, in addition to the accommodations usually found in general hospitals.

The Hospital is supported by income from endowment and from patients, and by funds derived from outside sources. It is not a municipal institution.

The Hospital admits patients fifteen years of age or over, suffering from general medical or surgical diseases. Contagious patients are not admitted. In the admission of patients, no distinction is made as to color, race, or creed. During the year 1929 6,025 patients were admitted for treatment and care.

THE ST. LOUIS CHILDREN'S HOSPITAL

The St. Louis Children's Hospital is located on Kingshighway Boulevard facing Forest Park, and is connected by corridor to the other hospitals of the University group of the School of Medicine. The total bed capacity is 143. The Hospital is supported by income from endowment and from patients and by voluntary contributions. It is not a municipal institution.

Infants and children of all ages up to fifteen years are admitted without distinction. Special wards are provided for private patients, negro patients, and children suffering from contagious diseases. During the year 1929, 3,040 patients were admitted for treatment and care.

The Hospital houses the research and routine laboratories of the Department of Pediatrics.

The St. Louis Children's Hospital also maintains a country department at Valley Park, Missouri, twenty miles from St. Louis. The capacity of the Country Department is 75 patients. Children suffering from malnutrition, surgical tuberculosis, or those who

are convalescent from acute illnesses are admitted. Patients with pulmonary tuberculosis are not admitted. Instruction to limited group of students is offered at the Country Department.

THE ST. LOUIS MATERNITY HOSPITAL

The St. Louis Maternity Hospital is at the corner of Kings-highway Boulevard and Euclid Avenue, facing Forest Park, between the Barnes and McMillan Hospitals. The Hospital has accommodations for 103 women and an equal number of newly born babies. Forty-three beds are for private patients.

One floor is reserved for colored patients who have their own delivery rooms and separate entrance.

One floor of this hospital is set aside for the research laboratories of the Department of Obstetrics.

During the year 1929, 2,030 cases were admitted to the St. Louis Maternity Hospital.

THE MCMILLAN EYE, EAR, NOSE AND THROAT HOSPITAL AND THE OSCAR JOHNSON INSTITUTE FOR RESEARCH IN OPHTHALMOLOGY AND OTO-LARYNGOLOGY

Construction of the McMillan Hospital and the Oscar Johnson Institute will be completed during the fall of 1930. The Hospital and Research Institute are housed in a single eleven-story building which is owned by Washington University. The Hospital, when completed, will have 150 beds divided equally between ophthalmology and oto-laryngology. One floor is reserved for private patients, one for semi-private, and one for colored patients. The hospital is located at the corner of Euclid Avenue and Kings-highway Boulevard, and faces Forest Park. The basement is continuous with that of the building of the Washington University Dispensary.

The Oscar Johnson Institute for Research in Ophthalmology and Oto-Laryngology occupies the upper five floors of the building and houses the departmental offices and research laboratories of the Departments of Ophthalmology and Oto-Laryngology.

WASHINGTON UNIVERSITY DISPENSARY
OUT-PATIENT DEPARTMENT OF THE BARNES, ST. LOUIS CHILDREN'S,
ST. LOUIS MATERNITY, AND MCMILLAN EYE, EAR, NOSE
AND THROAT HOSPITALS

The Washington University Dispensary is an organic part of the School of Medicine and is entirely controlled by the Corporation of the University through the Medical Faculty. It functions as the out-patient clinic of all of the hospitals in the University group. The Dispensary is housed in the basement and first floors of one of the medical school buildings and of the McMillan Hospital. The Heads of the various departments in the School of Medicine direct the corresponding departments in the Dispensary and the Dispensary is staffed by the same group of men as the University Hospitals.

During the year 1929 there were 129,580 visits of patients to the Dispensary.

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

At the invitation of the authorities of the Hospital Division of the City of St. Louis, Washington University has assumed control and has become responsible for the medical care of one-half of the patients in the St. Louis City Hospital, and for one-half of the patients in the City Infectious Disease Hospital, and has further agreed to render such professional service in the other municipal institutions as the Hospital Commissioner might request.

The physical equipment of these hospitals is such that this service can be used to advantage for both undergraduate and graduate teaching, and the addition of these units to the clinical facilities of the University greatly broadens the opportunities for teaching. By this coöperation, it is also possible for the University to render a distinct service to the community and to the sick poor. The number of beds made available by this arrangement is approximately 500.

The general plan of organization of the Washington University units in these hospitals is the same as that in operation in the University Hospitals. Each unit is organized with a Chief of

Staff who is held responsible for the work of the department and for the proper assignment of work to his associates.

SCHOOL OF MEDICINE LIBRARY

The Library contains (October 1, 1929) 43,226 bound volumes and receives 489 of the most important medical periodicals, selected with reference to the needs of students and investigators. Of these 421 are in complete series. Including obsolete journals, there are 701 complete sets.

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

The stacks are open to readers. In the stack rooms every other stack has a table at the window end. There are also three study rooms and four cubicles where books can be placed for investigators. A large reading room provides ample table space and open shelves for current publications.

The Library has been enriched by the acquisition of several private collections. Among these are the library of the late Julius Pagel, Professor of the History of Medicine at the University of Berlin, the gift of the late Mrs. Benjamin Brown Graham of St. Louis. This comprises about twenty-five hundred titles, including many works on the history of medicine, medical biography, bibliography, terminology, medical sociology, and ethics. There is also the fine collection of the late Dr. John Green of periodicals and books relating to ophthalmology; that of the late Dr. W. E. Fischel, on internal medicine, and the library of the late Dr. Frank J. Lutz, Clinical Professor of Surgery, containing many valuable works on anatomy, surgery, medical history, and biography. The latest additions are the Dr. J. B. Shapleigh collection on Otology, the library of the late Dr. Elsworth F. Smith, Professor of Clinical Medicine and Pathological Anatomy, the Dr. Greenfield Sluder collection on Laryngology and Rhinology, the Ophthalmological library of Dr. M. H. Post, and the Dr. Malvern B. Clopton gift of incunabula, as follows: Leonicensus, Libellus Epidemia, Venice 1497, Mesue, Opera, Venice 1491, Gordon, Liliun Medicina, Venice 1498.

The Beaumont Room, adjoining the main reading room, contains manuscripts, letters, and other valuable material of the pioneer American physiologist, William Beaumont, presented to

the University by his granddaughter, the late Lily Beaumont Irwin. The original notes made during the investigations on the stomach of Alexis St. Martin form part of the collection. Here also may be seen the portrait of Beaumont by Chester Harding.

Other libraries in St. Louis containing literature relating to medicine, which are available to students, either directly or through the Library of the School, are the following:

The Library of Washington University, Skinker Road.

The St. Louis Medical Library, 3839 Lindell Boulevard.

The St. Louis Public Library, Olive and Fourteenth Streets.

The Library of the Missouri Botanical Garden, Shenandoah and Tower Grove Avenues.

The Mercantile Library, Broadway and Locust Street.

A loan service is maintained with various medical libraries in the country, notably the Library of the Surgeon General in Washington, and the John Crerar Library in Chicago.

MUSEUMS AND COLLECTIONS

In the Department of Anatomy there is a museum for teaching and a collection of material for investigation.

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

The Museum of Pathology contains specimens prepared and catalogued for use in the teaching of pathological anatomy. Specimens needed by any department of the School for demonstrations or lectures may be obtained from the museum under regulations similar to those in force in the Library. The Departments of Surgery and Obstetrics have aided in the collection of material suitable for the teaching of these subjects and other special departments have the opportunity to cooperate in making similar collections. Diseases of bones are well illustrated

by a large number of specimens collected during the early history of the School by Dr. Charles A. Pope and Dr. John T. Hodgen. A section of the museum contains experimental pathological lesions.

WASHINGTON UNIVERSITY MEDICAL SOCIETY

The Washington University Medical Society is conducted to promote the advance of medicine in the University and in the hospitals affiliated with it by the report and discussion of investigations undertaken in the laboratories and hospitals. The meetings are open to students of the School. Physicians of St. Louis and visiting physicians are welcome.

PHYSICAL EDUCATION AND ATHLETICS

EQUIPMENT. The David R. Francis Gymnasium is situated at the extreme western part of the campus. It is a massive structure, 100 by 180 feet, three stories high, with a main exercising hall measuring 75 by 107 feet. The building is completely equipped with the most modern kinds of apparatus. There are thirty-six hot and cold shower baths, a trophy room, wrestling, fencing, and handball rooms, offering every convenience for the student. Accommodations for indoor track and baseball are provided, and in the main hall is a suspended corked running track, eighteen laps to the mile.

The Wilson Swimming Pool was presented by Mrs. Newton R. Wilson, a friend of the University, whose interest in Physical Education and Athletics is expressed by this splendid gift to the University. The pool is housed in a building to the north of Francis Gymnasium, with which it is connected by a corridor. The pool itself is 75 feet long and 36 feet wide. The depth of the water runs from $3\frac{1}{2}$ feet at the shallow end to 9 feet at the deep end. The pool building is provided with the best and most modern equipment obtainable. It is constructed with women's quarters at one end and men's quarters at the other, making it possible for both the men and women of the University to use the pool. The building provides seating capacity for nearly 1,000 persons, thus furnishing ample space for the spectators who will attend swimming meets and exhibitions.

The Field House, completed in January, 1926, is connected by passageways with Francis Gymnasium and the Wilson Pool and with them forms the largest single gymnasium unit in the country. The Field House was built primarily for intercollegiate basket-ball and when used for this purpose has a seating capacity of 8,000. It has a removable stage at one end of the building and when used as an auditorium the seating capacity is 10,000. There are three basket-ball courts, a ten-lap track, several jumping pits, and a baseball cage in the building. The Field House is so constructed that it may be enlarged to twice its present size.

Francis Field is well known as one of the finest athletic fields in the country. The concrete grand stand has a seating capacity of 10,000. Excellent tennis courts adjoin the field.

McMillan Hall contains the women's gymnasium. It is equipped with the most modern kinds of apparatus, lockers, and baths.

A splendid athletic field is provided for women's athletics, and the entire work is given out of doors, when the weather permits. Intramural tournaments are held in field-hockey, soccer, basket-ball, tennis, track, baseball, volley-ball, and swimming.

UNIVERSITY HEALTH SERVICE

All students in degree-conferring departments are required to take a medical examination to be made by the Resident Physician and representatives of the Washington University School of Medicine.

Consultation, diagnosis, and treatment for injuries and acute or emergency conditions will be provided by a Resident Physician and Resident Nurse on the campus. Treatment for such conditions will be furnished without charge on the campus and at the Dispensary of the Washington University School of Medicine. Vaccination for smallpox, typhoid and other diseases will be offered.

For the Health Service thus outlined a charge of \$2.00 per year for each student registering in degree conferring departments will be required, payable at time of registration for the first semester.

REQUIREMENTS FOR ADMISSION TO SCHOOL OF MEDICINE

The first year class is 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. Applications for admission should be filed at as early a date as possible, and under all circumstances before June 10th of the year during which admission is sought. 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 two weeks after notification of acceptance. This deposit of fifty dollars will be applied toward the first payment of tuition, and will not be 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 requirements:

(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 must have included not less than the equivalent of 6 semester hours of English, 10 of German or French¹, 15 of Chemistry (including elementary quantitative analysis and 4 in organic), 8 of General Physics and 8 of Zoölogy.

(2) The completion of college courses in an acceptable college or university of a total equivalent to not less than 90 semester hours, and including not less than 6 semester hours of English, 10 of German or French¹, 15 of Chemistry (including elementary quantitative analysis and 4 in organic chemistry), 8 of General Physics and 8 of Zoölogy.

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

Students accepted on this basis may receive the degree of Bachelor of Science in Medical Science after satisfactory completion of all required courses of the first and second years in the School of Medicine, and after 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 student is a candidate for the degree. Compliance with the last requirement for this degree will not usually be attained before the end of the third or fourth year.

Beginning with the session 1931-32, a Bachelor's degree will be required, except that a limited number of applicants who have completed less than four years of work in an acceptable college may be admitted if they show exceptional aptitude for the study of Medicine.

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

English. One year of English covering composition and rhetoric.

German or French. It is highly desirable, if not essential, 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 foundation 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 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, supplemented by one in the elementary principles of the calculus.

Courses in psychology, general physiology, and general bacteriology will prove useful, but in general it is advised that the college period be devoted to the basic sciences and to the humanities. Those preparing to enter the medical profession should possess a liberal culture such as is gained from a thorough acquaintance with English literature and from a knowledge of history, the social sciences, and the classics. Special effort should be directed toward the acquirement of facility in English composition.

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 the college which he has attended to send directly to the Registrar a statement of honorable dismissal, and complete official transcripts of high school and college credits, including the names and dates of all courses in which he has been enrolled, with the grades and credit received in each course. 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, should also be submitted.

ADMISSION TO ADVANCED STANDING

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

tions for advanced standing should be filed at as early a date as possible, and under all circumstances before June 10 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 two weeks after notification of acceptance. This deposit of fifty dollars will be applied toward the first payment of tuition, and will not be returnable.

Applicants for admission to advanced standing (1) must furnish evidence that the foregoing terms of admission in regard to preliminary training have been fulfilled; (2) must show that courses equivalent in kind and amount to those given in this School, in the year or years preceding that to which admission is desired, have been satisfactorily completed; and (3) must satisfactorily pass examinations in those subjects in the work for which they have asked credit. These examinations may be waived at the discretion of the instructor in charge of the corresponding course. The applicant must have studied as a matriculated medical student in an acceptable medical school for a period of time at least equal to that already spent by the class to which admission is sought.

(a) Students who have received from an approved medical school credit for courses equivalent to those of the first year of this School in anatomy, chemistry, and physiology may be admitted to the second year class without examination, but, at the discretion of instructors, may be examined in these subjects at the end of the second year. (b) Students who have received from an approved medical school credits in anatomy, chemistry, physiology, bacteriology, clinical chemistry and microscopy, pathology, and pharmacology may be permitted to enter the third year class, but no student may enter with a condition in any of these subjects. At the discretion of instructors, such students may be examined in any of these subjects at the end of the third year. (c) Students who have received credit from an approved medical school for all required courses given in this school in the first, second, and third years may be admitted to the fourth year class without examination, but all such students at the end of the year may be required

to pass examinations covering any or all of the courses of the first, second, or third, as well as of the fourth year.

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

Applicants for advanced standing are required to furnish, in addition to the credentials required for admission, credentials from the medical school in which they have studied, enumerating 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 who may be qualified to participate in definite investigation, under the direction of a member of the staff, may, upon the written recommendation of the instructor in charge, endorsed by the head of the department, be accepted by the Faculty as volunteer research assistants and will not be charged fees. (2) Visiting graduates may, with the consent of the heads of the departments concerned, take special work in one or more departments without paying fees. (3) A limited number of graduate physicians, or others who may be qualified, may be admitted to courses with the undergraduate classes subject to the consent of the instructors and the head of the department. Fees for special courses, individual instruction, or material will be determined in each case by the Dean, in conference with the head of the department in which the work is done. (4) A number of special courses are being offered concerning which full information will be given upon request. (See pp. 118 ff.)

STANDING AND PROMOTION

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

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

Students who at the end of the first or second year have recorded against them failures in any two of the following sub-

jects, dissection, histology with neurology, physiology, biological chemistry, medicine 4 (clinical chemistry and microscopy), pathology, or bacteriology, will be required to withdraw from the School; or, under exceptional circumstances, the student may be allowed, instead, to pursue during one, two, or three trimesters additional work in the subjects in which he is deficient before being admitted to the next class.

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

A student who at the end of the third year has failed in any two of the following subjects, physical diagnosis, medicine 5, pharmacology, surgery 2, surgical pathology, surgery 3, or obstetrics 1, will be required to withdraw from the School, or may be required to do additional work as above stated.

To enter the fourth year, a student must have received credit for all of the subjects named above.

A student who, because of poor quality of work in courses or for any other reason, is judged by the Faculty as unfit for the practice of medicine, will be required to withdraw. A weighted average in any one year of less than 75 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.

The minimum time in which the courses required for the degree of Doctor of Medicine can be taken is four years.

Graduates of Washington University School of Medicine are exempt from the first and second examinations of the Conjoint Board of the Royal College of Physicians of London and the Royal College of Surgeons of England.

REQUIREMENTS FOR GRADUATION

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

entire four years. They must have discharged all indebtedness to the School, and must be present when the degree is conferred.

At the end of the fourth year every student who has fulfilled these requirements will be recommended for the degree of Doctor of Medicine.

HOSPITAL APPOINTMENTS

In the first trimester of the year, internes for the Barnes Hospital, St. Louis Children's Hospital, and the St. Louis Maternity Hospital are selected by the School of Medicine.

Except in the Department of Medicine, the services begin July 1st and are for one year. For 1929-30, these services are as follows:

Barnes Hospital

Medical Service, six positions.

Surgical Service, seven positions.

Oto-Laryngological Service, two positions.

Ophthalmological Service, three positions.

St. Louis Children's Hospital

Pediatric Service, five positions.

St. Louis Maternity Hospital

Obstetrical Service, 6 positions.

In the Department of Medicine the service is for eighteen months. Three internes are appointed for July 1st and three for January 1st.

Appointments to these positions are in general made from members of the fourth year class of the School of Medicine on the basis of class standing, but occasionally students from other medical schools are appointed. Appointees to the St. Louis Children's Hospital are required to complete one year's internship in an approved hospital, or at least a year in other acceptable clinical or scientific work before beginning service in the hospital.

About seventy other appointments are made each year to internships in the various hospitals of St. Louis not connected with the University. The fourth year students and graduates of this School may compete with those of other schools for these positions, which are filled upon the basis of examinations conducted by the respective boards of the hospitals.

PRIZES

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

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

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

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

FELLOWSHIPS, STUDENT ASSISTANTSHIPS, AND SCHOLARSHIPS

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

STUDENT ASSISTANTSHIPS are open in a number of departments in the school. Information concerning these can 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 the scholarship, namely, \$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 scholastic year on the recommendation of the Committee on Loans and Scholarships of the School of Medicine and the President of the Medical Alumni Association. Applications should be filed with the Dean.

The DR. JOHN B. SHAPLEIGH SCHOLARSHIP. Through the bequest of the late Dr. John B. Shapleigh, supplemented by con-

tributions of Mrs. John B. Shapleigh and Miss Margaret Shapleigh, the annual income from \$7,000.00, amounting to \$350.00, is used to pay the tuition of students who may be in need of assistance while attending the Washington University School of Medicine. The selection of the students to receive the benefit of such sum and the amount awarded such students are determined by the Chancellor of the University on the recommendation of the Dean and the Executive Faculty of the School of Medicine. Applications should be filed with the Dean.

THE JACKSON JOHNSON FUND. Under the will of the late Jackson Johnson the sum of \$250,000 was donated to the School of Medicine, the income of which is to be used to aid worthy and desirable students in acquiring and completing their medical education. The method of making such awards and the selection of the students to receive such assistance is determined from time to time by the University. Information regarding the assignment of aid from the Fund may be obtained by addressing the Dean of the School of Medicine.

THE DAVID MAY LOAN FUND. Through the bequest of the late Mr. David May, the annual income from the David May Loan Fund of \$20,000.00 is available for loans for deserving students in the degree-conferring divisions of the University, including the School of Medicine, where application is made to the Dean. Awards are made by the Chancellor.

THE ELIZA McMILLAN STUDENT AID FUND. Through the bequest of the late Mrs. Eliza McMillan, \$350.00 provides a scholarship for a deserving woman student in the School of Medicine. Application is made to the Dean of the School of Medicine. The award is made by the Chancellor.

THE DANIEL AND BLANCHE BORDLEY LOAN FUND. Through the gift of Mrs. Blanche Bordley, the income from the Daniel and Blanche Bordley Loan Fund of \$25,000.00 is available for loans to deserving women students, in certain divisions of the University. In the School of Medicine applications are made to the Dean. The awards are made by the Chancellor.

THE WASHINGTON UNIVERSITY STUDENTS LOAN AND SCHOLARSHIP ASSOCIATION. The purpose of this Association is to provide scholarships in all degree-conferring departments of the Univer-

sity for worthy students. The award covers tuition only and does not include fees such as matriculation, laboratory, and other charges. The grant is in the nature of a loan and the student is asked to repay the sum awarded at some later date when it can be done without serious burden. It is expected that the funds of the Association will be perpetuated in this way, and be continually available to aid deserving students. Application for aid from the fund should be made to the President of the Association. Awards may be granted both at the beginning of the year and at mid-year. Information may be obtained through the Alumni Office at the University.

The WASHINGTON UNIVERSITY MEDICAL ALUMNI ASSOCIATION LOAN FUND. The Washington University Medical Alumni Association has a loan fund and awards are made to worthy medical students upon application to the Chairman of the Committee on Loans and Scholarships of the School of Medicine or to the President of the Medical Alumni Association.

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 good medical education and who desire and intend to follow the practice of medicine and surgery. Application is made to the Dean of the School of Medicine. Awards are made by the Chancellor.

The LAVERNE NOYES SCHOLARSHIPS. The Trustees of the estate of LaVerne Noyes have assigned five scholarships to Washington University, which are available to deserving students. Applicants for these scholarships shall be citizens of the United States of America and either—

First, shall themselves have served in the Army or Navy of the United States of America in the war into which our country entered on the sixth day of April, 1917, and were honorably discharged from such service; or

Second, shall be descended by blood from someone who has served in the Army or Navy of the United States in said war, and who either is still in said service or whose said service in the Army or Navy was terminated by death or an honorable discharge.

Application should be made to the Chancellor.

REGISTRATION

Registration for the first half year, 1930-31, is scheduled for Monday, September 22, through Wednesday, September 24, 1930; for the second half year, Friday, January 30, and Saturday, January 31, 1931. Hours for registration are 9 to 11:30 and 2 to 5 daily, except Saturday; Saturday, 9 to 1.

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 as to the next instalment for payment due from the student.

MATRICULATION FEE

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

TUITION FEE

The tuition fee is \$400.00, payable in two equal instalments, at the beginning of the first and second half years.

Students taking less than full work are charged \$50.00 for the first one hundred hours or less of work. Students taking more than one hundred hours of work pay \$40.00 for each additional hundred hours.

BREAKAGE DEPOSIT

Each student is required to deposit \$10.00 annually to cover breakage in the School of Medicine, dispensary and hospitals. For work in the School, dispensary, and hospitals students are expected to supply themselves with the following: stethoscope, ophthalmoscope, percussion hammer, tape measure, flashlight, head mirror, and skin pencil. 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 \$2.00 annually is charged each student for medical health service.

STUDENT ACTIVITIES FEE

A fee of \$7.00 a year, payable in two instalments, is charged to undergraduate students for the support of athletics. Tickets may be secured for other student activities on payment of \$3.00 additional.

DIPLOMA FEE

At the completion of the course, a diploma fee of \$5.00 is charged, payable before Commencement.

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

Checks should be made payable to Washington University.

MICROSCOPES

Students are required to furnish their own microscopes.

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. Accounts will vary considerably, according to the individual.

Tuition	\$400.00
Breakage Deposit	10.00
Matriculation Fee (payable once).....	5.00
Health Service Fee.....	2.00
Student Activities Fee.....	\$ 7.00 or 10.00
Books	\$50.00 to 100.00
Room and Board (from \$10.00 to \$15.00 a week)	\$350.00 to 500.00
Total, excluding clothes and incidentals..	
	\$824.00 to \$1,027.00

MEN'S DORMITORY OF THE SCHOOL OF MEDICINE

A dormitory building containing rooms for about sixty students is located on Forest Park Boulevard, in close proximity to Forest Park, one of the most attractive localities in the city. There is a tennis court in the rear of the building, and there are public golf links, tennis courts and baseball grounds in Forest Park. Each room is furnished with the following articles: a bed and mattress, one pillow, one table, two chairs, one chifforobe, costumer, toilet cabinet, student's lamp, two small rugs. Each occupant must furnish his own bed covering, consisting of sheets, pillow cases, counterpanes, and blankets.

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

GENERAL PLAN OF INSTRUCTION

Instruction in the School of Medicine is given to candidates for the degree of Doctor of Medicine and to graduate students who may or may not be candidates for higher degrees. Courses which are open to students in the University, not candidates for the degree of Doctor of Medicine, are 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 extends over a period of at least four academic years, and is designed for students who have already received certain preliminary training. As stated in detail on pp. 67 ff., the student on entering the School must have completed at least three years of college work, which includes a knowledge of chemistry, physics, biology, English and either German or French.

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

The curriculum, covering four years, is divided into 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 whole interest of the student is concentrated on the scientific basis of medicine, and every effort is made to train the faculty of critical and independent observation. Anatomy and biological chemistry are studied during the first year. In the second semester of this year, the study of physiology begins. During the first trimester 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.

The second period, extending through the last two years, is devoted primarily to clinical work. For the first half of this period, the student receives practical clinical instruction in the out-patient departments of medicine, surgery, and obstetrics, and attends clinics, lectures, and recitations in the clinical subjects. The work in the out-patient departments occupies from 6 to 8 hours per week. Patients are examined by the student and treated under the direction of the attending staff. During the second half of this period, the students are assigned to the various wards of the hospitals, and each section of the class serves a full trimester in the wards of medicine, surgery, and obstetrics and pediatrics, respectively. During the second period courses are given in neurological pathology, surgical and gynecological pathology, and operative surgery on animals. Special emphasis is placed upon diagnosis and treatment of patients. There are few purely didactic lectures. Instruction is given at clinics and at the bedside. Clinical work in the specialties is confined to the second half of the second period.

In addition to the prescribed studies, the student is required to acquire during the course of the four years credit for three hundred hours in elective work. This credit may be acquired at any time, but the schedule of the fourth year is so arranged as to make its acquisition possible without undue crowding during that year. Students may devote this time to clinical courses in the out-patient department or avail themselves of the opportunity to further any special interests they may have in any one of the fundamental sciences or clinical subjects. For detailed statement and schedule of elective courses, see page 132.

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, dispensary work, or other required courses during the summer months.

SUMMARY OF THE MEDICAL CURRICULUM, 1929-30

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
Military Science	(33)	Medicine	176
.....	.....	Surgery	55
.....	.....	Military Science	(33)
.....	.....	Total, excluding	.....
Total, excluding	.....	M. S. & T..	1048
M. S. & T..	1024		
THIRD YEAR		FOURTH YEAR	
SUBJECT	HOURS	SUBJECT	HOURS
Pathology	55	Pathology	22
Medicine	275	Medicine	242
Neurology	66	Neurology	55
Dermatology	11	Surgery	231
Surgery	302	Obstetrics and	
Obstetrics and		Gynecology	154 ¹
Gynecology	110	Pediatrics	66
Ophthalmology	11	Ophthalmoscopy	12
Oto-Laryngology	22	Electives	300
Pediatrics	88	Military Science	(33)
Pharmacology	22	Total, excluding	.....
Public Health.....	33	M. S. & T..	1082
Medical Jurisprudence.	11		
Stomatology	11		
Applied Anatomy	22		
Military Science	(33)		
.....		
.....		
Total, excluding	.....	
M. S. & T..	1039		

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

COURSES OF INSTRUCTION

ANATOMY¹

Robert J. Terry, M.D. . . .	Professor of Anatomy
Edmund V. Cowdry, Ph.D. . . .	Professor of Cytology
Mildred Trotter, Ph.D. . . .	Assistant Professor of Anatomy
Gordon H. Scott, Ph.D. . . .	Assistant Professor of Cytology
James L. O'Leary, Ph.D. . . .	Assistant Professor of Cytology
George D. Williams, M.D., Ph.D.	Assistant Professor of Anatomy
Miriam Scott Lucas, Ph.D. . . .	Instructor in Cytology
Arthur W. Ham, M.B. . . .	Instructor in Cytology
George A. Seib, M.D. . . .	Instructor in Anatomy
William B. Brebner, M.B. . . .	Instructor in Cytology
Cecil M. Charles, Ph.D. . . .	Assistant in Anatomy
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Edward V. Mastin, M.D. . . .	Instructor in Anatomy
Leith H. Slocumb, M.D. . . .	Instructor in Anatomy

Fellows

Walter P. Covell, Ph.D. . . .	Research Fellow in Cytology
Brij M. Sharma, L.C.P. and S. . .	Research Fellow in Cytology
Gottwalt C. Hirsch, Dr.M.Nat.	Research Fellow in Cytology

First Year

1. HUMAN DISSECTION. The course offers opportunity for the systematic study of the gross structure of the human body. Each student is provided with material for the preparation and study of the integuments; muscles, joints, and skeleton; the viscera; the vascular system and peripheral nerves; sense organs. Lectures, demonstrations, and recitations serving to emphasize and correlate the observations made in the laboratory follow the practical work. 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.

Professor Terry, Professor Trotter, Professor Williams,
Dr. Seib, Dr. Charles

¹ The names before the break in the column are those of the full-time staff.

2. HISTOLOGY. A laboratory course occupying five mornings a week during the first trimester. The skin is first studied as a protective investment and a mechanism of adjustment between the delicate tissues beneath and the environment. The respiratory, digestive, supportive, and muscular tissues are then considered. Emphasis is finally placed upon the blood, the organs of internal secretion, and the reproductive systems. There are two lectures a week and many informal discussions in the laboratories. Each student is provided with a loan collection of selected preparations; but experiments are made whenever possible and much time is devoted to the examination of living cells in different stages of functional activity. 201 hours.

Professor Cowdry, Professor Scott, Professor O'Leary,
Dr. Ham

3. NEUROLOGY. A laboratory course occupying six mornings a week during the first half of the second trimester. Following a short survey of the development of the nervous system, the gross and microscopic anatomy of the brain and spinal cord are studied, placing particular emphasis upon the functional significance of the parts. Gross dissections are carried out upon sheep and human brains, and each student is provided with a loan collection of cell and fiber preparations through selected regions of brain and cord. Two weekly lectures are devoted to topics not easily accessible to the student; and discussions precede the daily laboratory work. 100 hours.

Professor O'Leary, Professor Cowdry, Professor Scott,
Dr. Ham

Third Year

4. APPLIED ANATOMY. This course is intended to provide a review of regions and structures with reference to application of anatomical training and knowledge in the practice of medicine. Lectures and demonstrations two hours during the second trimester. 22 hours.

Dr. Mastin

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. *Advanced Study and Research in Anatomy.* Opportunity is offered undergraduates and graduates in medicine for advanced laboratory study of selected topics. Investigation in anatomy may be carried on both in the School of Medicine and in the School of Graduate Studies. Hours to be arranged.

Professor Terry, Professor Trotter, Professor Williams

7. *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.

8. *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 and in Cytology, including the seminar.* See Bulletin of Washington University School of Graduate Studies.

BIOLOGICAL CHEMISTRY

Philip A. Shaffer, Ph.D. . . .	Professor of Biological Chemistry
Edward S. West, Ph.D. . . .	Assistant Professor of Biological Chemistry
Ethel Ronzoni, Ph.D. . . .	Assistant Professor of Biological Chemistry
Frank Urban, Ph.D. . . .	Instructor in Biological Chemistry
Irene Koechig Freiberg, A.M. .	Instructor in Biological Chemistry
William B. Wendel, B.S. . . .	Assistant in Biological Chemistry
Ellen Ehrenfest	Student Assistant in Biological Chemistry

First Year

8. **BIOLOGICAL CHEMISTRY.** A systematic course of lectures, recitations, conferences, and laboratory work covering those portions of the subject which are of the greatest importance to the

student of medicine. The laboratory work includes detailed study of the chemistry of fats, carbohydrates, and proteins; the analysis of the more important animal tissues and fluids; a study of the action of enzymes; the conduct of metabolism experiments by the student upon himself as illustrating some of the principles of nutrition; a study of the composition of important foods; and extended practice in chemical technique. Each student prepares a thesis upon a selected topic from original sources in the literature. Prerequisite: courses in inorganic and organic chemistry and quantitative analysis. Second semester, lectures and recitation five hours, and laboratory eleven hours a week. Lectures and recitations 81 hours, laboratory 183 hours.

Professor Shaffer, Professor West, Professor Ronzoni,
Dr. Urban

Elective Courses

4. *Advanced Work.* Courses of laboratory work and selected reading in biological chemistry will be arranged to suit individual needs.

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

6. *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.

7. *Chemistry of Carbohydrates.* A lecture course, covering the structure, relations, and properties of the sugars and polysaccharides. Two hours a week, second semester.

Professor West

8. *Selected Physico-Chemical Methods.* Laboratory work with assigned reading and conferences. Second semester. Dr. Urban

PHYSIOLOGY

Joseph Erlanger, M.D. . . . Professor of Physiology

George H. Bishop, Ph.D. . . Associate Professor of Physiology

H. Lester White, M.D. . . . Associate Professor of Physiology
Arthur S. Gilson, Jr., Ph.D. . . Assistant Professor of Physiology

Fellow

Louis M. Monnier, Ph.B. . . Research Fellow in Physiology

First and Second Years

2. PHYSIOLOGY. Lectures. This course is designed especially to meet the needs of students of medicine, but is open to properly prepared graduate students. It consists of lectures, demonstrations and recitations covering systematically the field of human physiology. As far as practicable the lectures are descriptive of experiments demonstrated in the lecture room. Free use is made of charts, models, lantern slides, and records for the purpose of bringing to the attention of the student the experimental basis of those phases of the subject that do not lend themselves readily to experimental demonstration. Weekly recitations are held upon the subject matter of the lectures. The lectures begin in the second semester of the first year and are continued during the first trimester of the second year. Properly prepared graduate students and, under exceptional circumstances, medical students, will be permitted to begin the course at the opening of the college year. The course is so arranged that students are enabled to acquire some knowledge of anatomy, embryology, histology, neurology, and biological chemistry before the physiological aspects of the related topics are considered. The following subjects are covered in the lectures: muscle and nerve, central nervous system, senses, blood, circulation, respiration, secretion, digestion, nutrition, and reproduction. Only those students will be admitted to the course who have completed or have begun the study of anatomy and biological chemistry. 110 hours.

Professor Erlanger, Professor Bishop, Professor
White, Professor Gilson

Second Year

3. PHYSIOLOGY. Laboratory Course. This course must be taken in conjunction with Physiology 2. The experiments are so arranged as to serve at one and the same time to illustrate

fundamental principles of physiology and to familiarize the student with the more important bio-physical methods employed in experimental physiology and medicine. The class works in groups of two. Each group has its individual table, which is supplied with all the apparatus necessary for the performance of the general experiments. To the groups is assigned in rotation the apparatus needed for the performance of special experiments. As far as practicable the students serve as subjects of the special experiments and study upon themselves by quantitative methods certain phases of the physiology of muscle and nerve, and of the circulation, respiration, central nervous system, and sense organs. The instruction in the laboratory is largely individual. Weekly conferences are held for the discussion and correlation of the experimental data. First trimester. 138 hours.

Professor Erlanger, Professor Bishop, Professor White,
Professor Gilson

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 Courses 2 and 3. It consists mainly of experiments demonstrated in Course 2. The time and the amount of work are not limited, except that assistance must be arranged for by definite engagements.

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

6. *Journal Club.* The Journal Club, conducted conjointly by the Departments of Biological Chemistry, Physiology, and Pharmacology, 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

Jacques J. Bronfenbrenner,

Ph.D., Dr.P.H. Professor of Bacteriology and
Immunology

Kenneth L. Burdon, Ph.D.	Instructor in Bacteriology and Immunology
Philip L. Varney, M.S.	Instructor in Bacteriology and Immunology
Donald Hetler, Ph.D.	Instructor in Bacteriology and Immunology
LeRoy Friend, B.S.	Student Assistant in Bacteriology and Immunology
Mary Louise Newman	Student Assistant in Bacteriology and Immunology
Arie C. van Ravenswaay	Student Assistant in Bacteriology and Immunology

Second Year

1. BACTERIOLOGY. Lectures and Laboratory. This course embraces a survey of the field of bacteriology from the biological point of view. The metabolism of bacteria and its relation to toxin production and infection is given special attention.

In the laboratory the methods of morphological and cultural recognition of bacteria are emphasized. Fifteen hours a week the first trimester. 168 hours.

Professor Bronfenbrenner, Dr. Hetler, Dr. Burdon, Mr. Varney

2. INFECTION AND IMMUNITY. Lectures on the mechanism of infection and immunity. The changes which occur in blood as the result of immunization will be studied in the laboratory. One lecture and three hours of laboratory work each week during the second trimester. 44 hours.

Professor Bronfenbrenner, Dr. Hetler, Dr. Burdon, Mr. Varney

PUBLIC HEALTH

Jacques J. Bronfenbrenner.

Ph.D., Dr.P.H. Professor of Bacteriology and Immunology

Kenneth L. Burdon, Ph.D. Instructor in Bacteriology and Immunology

Philip L. Varney, M.S. Instructor in Bacteriology and Immunology

Donald Hetler, Ph.D.	Instructor in Bacteriology and Immunology
Adrien Bleyer, M.D.	Lecturer in Public Health
Harry M. Miller, Jr., Ph.D. .	Lecturer in Medical Zoölogy
Charles H. Philpott, Ph.D. .	Lecturer in Medical Zoölogy
Phyllis Nelson	Student Assistant in Medical Zoölogy

Third Year

1. PUBLIC HEALTH. Lectures upon the modes of transmission and prevention of infectious diseases, personal hygiene, sanitation, and other subjects bearing upon the maintenance of public health are given once a week throughout the year. 33 hours.
Professor Bronfenbrenner and Staff

Elective Courses

Medical Zoölogy. This course covers the identification and life cycles of parasitic protozoa and helminths as well as of disease-transmitting arthropods and methods for their control. One lecture and three hours of laboratory work each week during the third trimester.
Professor Miller, Professor Philpott

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 sanitary survey. The class will meet at intervals arranged for by consultation with the students registered for the course.
Dr. Burdon, Dr. Hetler, Mr. Varney

Research. The facilities of the laboratory are open to those properly qualified for research in Public Health.
Professor Bronfenbrenner and Staff

PATHOLOGY

Leo Loeb, M.D.	Edward Mallinckrodt Professor of Pathology
Howard A. McCordock, M.D. .	Associate Professor of Pathology

Walter J. Siebert, M.D.	Assistant Professor of Pathology
Margaret G. Smith, M.D.	Assistant Professor of Pathology
Jacob Rabinovitch, M.D.	Assistant in Pathology
Edward L. Burns, M.D.	Assistant in Pathology
Grace Edwards, M.D.	Assistant in Pathology
Hilda Friedman, M.S.	Assistant in Pathology
Frederick Scharles, M.D. ¹	Assistant in Pathology
Robert B. Bassett, A.B.	Student Assistant in Pathology

Second Year

1. **PATHOLOGY.** Prerequisite courses for pathology are represented by the required work in anatomy, biological chemistry, and bacteriology. Students in the School of Graduate Studies whose major work lies in biology may elect pathology as a minor at the discretion of the department concerned. The course is subdivided as follows:

(a) **LECTURES AND LABORATORY WORK.** Instruction includes lectures, demonstrations, recitations, discussion of recent literature, and work in the laboratory. General pathology will be taught by lectures and demonstrations given in association with the study of the gross and histological characters of lesions together with experiments performed by the student. Pathological histology will be studied by means of sections stained for microscopic examination by the student, supplemented by specially prepared specimens which are loaned; students are urged to describe and to draw the lesions they find. Some familiarity with the literature of pathology will be obtained by reports upon special topics made by members of the class during one hour each week in the second trimester. Lectures and laboratory work, eleven hours a week in the second trimester and thirteen hours in the third trimester. 256 hours.

Professor Loeb, Professor McCordock, Professor Siebert,
Professor Smith

(b) **RECITATIONS.** The work of each week is reviewed by recitations, in which effort is made to determine how accurately the

¹ July 1, 1928, to January 1, 1929.

student has grasped the subjects studied in the laboratory. Two hours a week in the second trimester and one hour a week in the third trimester. 33 hours. Professor Loeb

(c) **CONDUCT OF AUTOPSIES.** Students are instructed in the methods of postmortem examination, and in small groups attend autopsies, participate in the microscopic study of the specimens and prepare records of the autopsies.

Professor McCordock, Professor Siebert, Professor Smith

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. By means of sections prepared by freezing, the relation of gross to histological changes is defined. 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.

Professor McCordock, Professor Siebert, Professor Smith

Third and Fourth Years

2. **CLINICAL AND PATHOLOGICAL CONFERENCE.** The clinical history and treatment of patients who have died is discussed before the class by the physicians and surgeons of the departments concerned. The specimens and microscopical slides from the corresponding autopsies are reviewed with reference to the clinical histories. The important gross and microscopical lesions are illustrated by lantern slides. One hour a week during five trimesters. 55 hours.

Professor McCordock, Professor Siebert, Professor Smith

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.

4. *Seminar* of the Staff for the discussion of Research. A limited number of students can be admitted. Two hours weekly.

**THE EDWARD MALLINCKRODT DEPARTMENT
OF PHARMACOLOGY**

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

Charles M. M. Gruber,

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

Helen Tredway Graham,

Ph.D. Instructor in Pharmacology

Fellow

Louis M. Monnier, Ph.B. . . Research Fellow in Pharmacology

Second and Third Years

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

Professor Gasser, Professor Gruber

(b) LABORATORY COURSE. Students work in small groups and complete sets of apparatus for the individual experiments are supplied to each group of students. The course is arranged to demonstrate the pharmacological action of the more important drugs, and at the same time to familiarize the student with methods and processes used in experimental pharmacology. The chemical reactions of groups of drugs and important compounds are studied briefly. Complete records of each experiment, giving all the data which do not lend themselves readily to graphic methods, are

kept by the students and filed together with the tracings in permanent note books. Six hours a week during the second trimester of the second year. 66 hours.

Professor Gasser, Professor Gruber

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.

THE JOHN T. MILLIKEN DEPARTMENT OF MEDICINE¹

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

David P. Barr, M.D.	Busch Professor of Medicine
Harry L. Alexander, M.D. . . .	Associate Professor of Medicine
Frank H. Ewerhardt, M.D. . . .	Assistant Professor of Physical Therapeutics
Harold A. Bulger, M.D.	Assistant Professor of Medicine
John V. Lawrence, M.D.	Assistant Professor of Medicine
Ralph S. Muckenfuss, M.D. . . .	Assistant Professor of Medicine
Ethel Ronzoni, Ph.D.	Chemist in Medicine
Leon Bromberg, M.D.	Instructor in Medicine
Charles W. Duden, M.D.	Instructor in Medicine
Byron F. Francis, M.D. ²	Instructor in Medicine
William B. Kountz, M.D.	Instructor in Medicine
Julius Jensen, M.R.C.S.	Instructor in Medicine
Robert M. Evans, M.D.	Assistant in Medicine
Wilfrid Gaisford, M.D.	Assistant in Medicine
Louis Aitken, M.D.	Assistant in Medicine
Saxton Pope, M.D.	Assistant in Medicine
Hugh M. Wilson, M.D.	Assistant in Medicine

¹ The names before the break in the column are those of the full-time staff.

² Resigned September 1, 1929.

Findlay J. Ford, M.D.	Assistant in Medicine
Willis K. Weaver	Chemist in Medicine
Emmet F. Pearson, A.B.	Student Assistant in Medicine
James E. Pittman, A.B.	Student Assistant in Medicine
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Elsworth S. Smith, M.D.	Professor of Clinical Medicine
Albert E. Taussig, M.D.	Associate Professor of Clinical Medicine
Warren P. Elmer, M. D.	Associate Professor of Clinical Medicine
Jacob J. Singer, M.D.	Associate Professor of Clinical Medicine
William H. Olmsted, M.D.	Associate Professor of Clinical Medicine
Drew W. Luten, M.D.	Assistant Professor of Clinical Medicine
Joseph W. Larimore, M.D.	Assistant Professor of Clinical Medicine
Lawrence D. Thompson, M.D.	Assistant Professor of Clinical Medicine
Walter Baumgarten, M.D.	Instructor in Clinical Medicine
Jerome E. Cook, M.D.	Instructor in Clinical Medicine
Llewellyn Sale, M.D.	Instructor in Clinical Medicine
Louis H. Hempelmann, M.D.	Instructor in Clinical Medicine
Walter Fischel, M.D.	Instructor in Clinical Medicine
Frank D. Gorham, M.D.	Instructor in Clinical Medicine
Charles H. Eyermann, M.D.	Instructor in Clinical Medicine
Arthur E. Strauss, M.D.	Instructor in Clinical Medicine
Samuel B. Grant, M.D.	Instructor in Clinical Medicine
Oliver H. Campbell, M.D.	Instructor in Clinical Medicine
Lee D. Cady, M.D.	Instructor in Clinical Medicine
Alfred Goldman, M.D.	Instructor in Clinical Medicine
Hiram S. Liggett, M.D.	Instructor in Clinical Medicine
Joseph F. Bredeck, M.D.	Instructor in Clinical Medicine
Raleigh K. Andrews, M.D.	Assistant in Clinical Medicine
Lionel S. Luton, M.D.	Assistant in Clinical Medicine
Lee P. Gay, M.D.	Assistant in Clinical Medicine
Anthony B. Day, M.D.	Assistant in Clinical Medicine
Oliver Abel, Jr., M.D.	Assistant in Clinical Medicine

William G. Becke, M.D. . . .	Assistant in Clinical Medicine
Milo L. Heideman, M.D. . . .	Assistant in Clinical Medicine
Louis Cohen, M.D.	Assistant in Clinical Medicine
Ben D. Senturia, M.D.	Assistant in Clinical Medicine
Harry W. Wiese, M.D.	Assistant in Clinical Medicine
Howard A. Rusk, M.D.	Assistant in Clinical Medicine
Charles E. Gilliland, M.D. . . .	Assistant in Clinical Medicine
C. Malone Stroud, M.D.	Assistant in Clinical Medicine
Bertrand Y. Glassberg, M.D. . .	Assistant in Clinical Medicine
Elmer Richman, M.D.	Assistant in Clinical Medicine

Second Year

1. **ELEMENTARY MEDICINE.** The course is composed of the following subdivisions:

(a) **Introductory Clinic.** The observation and interpretation of symptoms and signs in ward and dispensary patients with special reference to pathological physiology and anatomy and their relation to diagnosis. One hour a week during the second and third trimesters. 22 hours.

Professor Barr, Professor Schwab

(b) **Recitations in Medicine.** Based on reading assigned in a correlation with the Introductory Clinic. One hour a week during the second and third trimesters. 22 hours.

Dr. Jensen, Dr. Wilson

2. **PHYSICAL DIAGNOSIS.** Lectures, demonstrations, and practical exercises in the technique of physical diagnosis and in the interpretation of the signs elicited by inspection, palpation, percussion and auscultation in health. Four hours a week during the second trimester. 44 hours.

Professor Elmer, Dr. Bromberg, Dr. Wilson, Dr. Pope

3. **ABNORMAL PHYSICAL DIAGNOSIS.** Lectures, demonstrations, and practical exercises in the technique of physical examination of the patient. Three hours a week during the third trimester. 33 hours.

Dr. Bromberg, Dr. Abel, Dr. Aitken, Dr. Becke, Dr. Evans,
Dr. Wilson

Second and Third Years

4. CLINICAL CHEMISTRY AND MICROSCOPY. A series of lectures and a laboratory course in methods of microscopic and chemical diagnosis. The subjects are the urine, blood, stomach contents, sputum, fæces and puncture fluids. Material is obtained from cases in the hospital and dispensaries. Considerable reading is required outside of laboratory hours. Five hours a week during the third trimester of the second year and three hours a week during the first trimester of the third year. 88 hours.

Professor Thompson, Professor Muckenfuss, Dr. Bromberg,
Dr. Bredeck, Dr. Stroud

Third Year

5. ABNORMAL PHYSICAL DIAGNOSIS. Practical training in the physical methods of diagnosis. The class is subdivided into small groups and each group studies patients in the hospital wards. Two hours a week for one trimester. 22 hours.

Dr. Campbell, Dr. Andrews, Dr. Becke, Dr. Glassberg

6. MEDICAL DISPENSARY. One-third of the class is assigned to the medical dispensary during each trimester. This group is subdivided and the sub-groups rotate through the general medical, cardiac, gastrointestinal, tuberculosis clinics and laboratories. The students take histories, and make physical and laboratory examinations under the direction of the staff. Two hours four days a week for one trimester. 88 hours.

Professor Lawrence, Dr. Strauss, Dr. Goldman, Dr. Evans,
Dr. Day, and Staff

7. THERAPEUTICS. A course designed to give students a general survey of the methods and the principal agencies employed in the treatment of disease. One hour a week during the second trimester. 11 hours. Professor Barr, Professor Ewerhardt

8. DIETETICS. Lectures and recitations upon foods, beverages and condiments in health and disease. One hour a week during the second and third trimesters. 22 hours. Professor Olmsted

9. MEDICINE RECITATION. The class is divided into groups for discussion and recitation upon reading assigned in a text-book of medicine. Special emphasis is placed upon therapeutics

and the principal instruction in special treatment of separate diseases is given in this course. Two hours a week throughout the year. 66 hours. Dr. Grant, Dr. Duden

10(c). MEDICINE. 33 hours. (See under Fourth Year.)

Fourth Year

10. MEDICINE. The course is subdivided as follows:

(a) Medical Ward Work. The class is divided into three sections, two of which are assigned to Barnes Hospital and the third to the Dispensary. Rotation is arranged so that each student has experience in all services. Each section is in daily attendance for eleven weeks. Ward rounds 9-10 a. m. daily. The students are assigned cases in the medical wards and out-patient clinics, and are required to write the histories and make physical and laboratory examinations, write résumés with diagnosis and prognosis, and describe treatment in detail. The patients are examined, the work of the section scrutinized and criticised, methods of diagnosis and treatment discussed and practiced, and special reading assigned. The specimens from autopsies on medical patients are studied with reference to the clinical histories and the gross and microscopic anatomy. Each student is required to present two term papers, complete and ready for publication if so desired, upon subjects selected by the student himself. 176 hours.

Professor Barr, Professor Alexander, and Staff

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

Professor Barr, Professor Alexander, Professor Taussig

(c) A weekly clinic in which a series of subjects, such as gastrointestinal diseases, arterial hypertension, disturbances of internal secretions, pulmonary tuberculosis, and the mechanism of the heart beat are presented. Therapeutics of the conditions presented is particularly emphasized. 33 hours.

Professor Smith, Professor Olmsted, Professor Singer,
Professor Lutten, Professor Larimore, and Dr. Sale

(d) Clinical and Pathological Conferences. Students attend these conferences during their third and fourth years. The staffs of the various clinical departments and of the Department of Pathology participate in giving this course. (See Pathology 2.)

Elective Courses

13. *Diagnosis and Treatment of Diseases of the Digestive Tract.* The course consists of history taking and physical diagnosis of the abdomen, including radiology, fluoroscopy, plate reading, sigmoidoscopy, etc. Hours by arrangement.

Professor Larimore

14. *Diagnosis and Treatment of Heart Disease.* A practical course in the diagnosis and treatment of cardiac disorders with special emphasis on clinical methods. Electrocardiography and Roentgenology will be considered in their relation to clinical cardiology. Open to a limited number of students. Hours by arrangement.

Dr. Strauss and Staff

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

Professor Alexander, Professor Thompson

16. *Diagnosis and Treatment of Thoracic Diseases.* Course consists of a special study of obscure thoracic conditions; the use of pneumothorax, lipiodol, postural drainage and fluoroscopy. Especial attention given to the diagnosis of surgical diseases of the chest. Course open to limited number of students.

Professor Singer, Dr. Goldman

Neurology and Psychiatry

Sidney I. Schwab, M.D. . . . Professor of Clinical Neurology
 Andrew B. Jones, M.D. . . . Instructor in Neuropathology
 Archie D. Carr, M.D. . . . Instructor in Clinical Neurology
 Paul E. Kubitschek, M.D. . . . Instructor in Neuropsychiatry
 James Lewald, M.D. . . . Assistant in Clinical Psychiatry
 Lee D. Cady, M.D. . . . Assistant in Clinical Neurology
 Val B. Satterfield, M.D. . . . Assistant in Clinical Neurology
 and Psychiatry

Barbara S. Kendall, Ed.M. . Assistant in Applied Psychology
in Neurology
J. William Beckmann, M.D.¹ . Assistant in Clinical Neurology

1. NEUROLOGY. Third Year

(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. Professor Schwab

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

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

Professor Schwab, Dr. Jones, Dr. Carr, Dr. Kubitschek,
Dr. Satterfield

3. NEUROLOGY. Fourth Year

(a) Neurological ward rounds with the medical group. Neurological and such psychiatric cases as are suitable for hospital treatment are studied. Two hours a week for one trimester for each medical group. 22 hours. Professor Schwab, Dr. 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 three trimesters. 33 hours. Professor Schwab

4. *Psychiatric Clinic*. Elective course. Selected cases illustrating the various groups of mental disorders are demonstrated

¹ Effective December 1, 1929.

and discussed. This clinic is held at the St. Louis City Sanitarium. Two and one-half hours a week during the second trimester. 28 hours. Dr. Lewald

Dermatology

Martin F. Engman, M.D. . . . Professor of Clinical Dermatology
 William H. Mook, M.D. . . . Assistant Professor of Clinical
 Dermatology
 Richard S. Weiss, M.D. . . . Assistant Professor of Clinical
 Dermatology
 Adolph H. Conrad, M.D. . . . Instructor in Clinical Dermatology
 William G. Coleman, M.D. . . . Assistant in Clinical Dermatology
 Fellow
 Zola K. Cooper, Ph.D. . . . Research Fellow in Dermatology

Third Year

(a) DERMATOLOGY. A lecture course on diseases of the skin and on syphilis, by which the student is prepared to understand clinical dermatology in the succeeding 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. Professor Engman

Fourth Year

(b) *Dermatology*. An elective course, conducted in the Dispensary, in which the student examines patients and is instructed in the diagnosis and treatment of diseases of the skin and of syphilis. Eight hours a week for one-half trimester. 44 hours. Other hours by arrangement.

Professor Engman, Professor Mook, Professor Weiss,
 Dr. Conrad, Dr. Coleman

THE MARY CULVER DEPARTMENT OF SURGERY¹

(The Department of Surgery includes General Surgery, Orthopedic Surgery, Neurological Surgery, and Genito-Urinary Surgery.)

¹ The names before the break in the column are those of the full-time staff.

- J. Albert Key, M.D. . . . Assistant Professor of Clinical
Orthopedic Surgery
- Duff S. Allen, M.D. . . . Assistant Professor of Clinical
Surgery
- Dalton K. Rose, M.D. . . . Assistant Professor of Clinical
Genito-Urinary Surgery
- Warren R. Rainey, M.D. . . Instructor in Clinical Surgery
- H. McClure Young, M.D. . . Instructor in Clinical Genito-
Urinary Surgery
- Harry G. Greditzer, M.D. . . Instructor in Clinical Genito-
Urinary Surgery
- J. Edgar Stewart, M.D. . . Instructor in Clinical Orthopedic
Surgery
- Theodore P. Brookes, M.D. . Instructor in Clinical Orthopedic
Surgery
- William M. Robertson, M.D.. Assistant in Clinical Genito-
Urinary Surgery
- Jacob G. Probst, M.D. . . Assistant in Clinical Surgery
- V. Rogers Deakin, M.D. . . Assistant in Clinical Surgery
- J. Barrett Brown, M.D. . . Assistant in Clinical Surgery
- Roland M. Klemme, M.D. . . Assistant in Clinical Neurological
Surgery
- J. Hoy Sanford, M.D. . . . Assistant in Clinical Genito-
Urinary Surgery
- Otto J. Wilhelmi, M.D. . . . Assistant in Clinical Genito-
Urinary Surgery
- Newton W. Amos, M.D. . . . Assistant in Clinical Genito-
Urinary Surgery

Fellow

- Abraham Kaplan Fellow in Neurological Surgery

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. Special emphasis is laid on the growth of tissues, with particular reference to wound healing and transplants, the effects of tissue

asphyxia and similar subjects. Attention is directed to a study of the processes involved rather than merely to the end results. The students also test and practice various methods of sterilization of hands, instruments, etc., using bacterial cultures as checks on the methods. The course includes the demonstration of patients who illustrate various points under discussion. Five hours weekly during the third trimester. 55 hours.

Dr. Heinbecker

Third Year

2. SURGERY. The course is subdivided as follows:

(a) SURGICAL OUT CLINIC. For one trimester, five times weekly, a third of the class serve as dressers in the Surgical Out Clinic. Cases are examined by the students and demonstrated to them. Under the supervision of the assistants, the students take histories and apply dressings and bandages. 110 hours.

Professor Graham, Professor Sachs,
Professor Copher, and Assistants

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

Professor Cole, Dr. Elman

(c) FRACTURES. Demonstrations, conferences, and lectures on the more common fractures. Patients both in the hospitals and in the dispensary will be used in this course. One hour weekly during the third trimester. 11 hours. This is supplemented by several optional hours at the City Hospital, during which time the extensive fracture material of that hospital is shown to the students.

Professor Abbott, Dr. Rainey

(d) OPERATIVE SURGERY. A three-hour exercise given weekly during the third trimester. 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.

Professor Sachs, Professor Fisher

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

(f) **SURGICAL CONFERENCE.** The pathology, diagnosis, and treatment of surgical conditions, as illustrated by ambulatory out-patient cases, are discussed. A weekly exercise during three trimesters. 33 hours. Professor Sachs

(g) **GENITO-URINARY SURGERY.** Lectures and recitations in genito-urinary surgery. Third trimester. 11 hours. Professor Caulk

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

Dr. Olch

Fourth Year

4. SURGERY. The course is subdivided as follows:

(a) **SURGICAL WARDS.** For one trimester the student serves as assistant in the surgical wards from 9 a. m. to 12 m. six days a week. Rounds are made from 9 to 10 a. m. General and special surgical cases are discussed by the Chief and members of his staff. The students, under the direction of the house staff, take case histories and make physical examinations and the usual laboratory examinations. They assist at some of the operations and with the anæsthetic, and do some of the surgical dressings. They also attend autopsies performed on the cases studied by them and are required to be present at the weekly pathological conference at which these cases are discussed. (See Pathology 2.) One day each week the group spends the period from 9 a. m. to 12 m. at the St. Louis Children's Hospital, where orthopedic cases and general surgical cases are demonstrated. On Friday morning the surgical group attends ward clinics and demonstrations at City Hospital No. 1. 198 hours.

Professor Graham and Staff

(b) **SURGICAL CLINIC.** A weekly exercise throughout three trimesters. Students of the fourth year examine the patients and

present the cases for discussion. Students of the third year attend this exercise. 33 hours.

Professor Graham, Professor Sachs

6. **ORTHOPEDIC SURGERY.** Instruction is given at the Barnes Hospital, at the St. Louis Children's Hospital and at the Shriners' Hospital, as described in course 4 (a).

Professor Abbott, Professor O'Reilly, Professor Key

Elective Courses

5. *Genito-Urinary Out Clinic.* Elective course. The student serves as dresser in the Genito-Urinary Out Clinic six hours a week for one-half trimester under the same conditions as in Course 2. 33 hours. Other hours by arrangement.

Professor Caulk and Assistants

8. *Advanced Operative Surgery.* Two-hour exercises are given once weekly during the first trimester of the fourth year. The students are instructed in the technique of special operations by performing these operations on animals under regulations of the surgical operating room, and are encouraged to work at some unsolved problem. 22 hours.

Professor Bartlett

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 the staff meeting, which meets weekly, at which topics of interest, recent surgical pathological material, and current surgical literature are discussed.

RADIOLOGY¹

Sherwood Moore, M.D. . . . Professor of Radiology
 Arthur L. Hughes, D.Sc. . . . Consulting Physicist
 William L. Smith, M.D.² . . . Assistant in Radiology
 Robert F. Parker, M.D.³ . . . Assistant in Radiology

¹ The names before the break in the column are those of the full-time staff.

² Resigned September 15, 1929.

³ July 1, 1929, to January 1, 1930.

Leander A. Malone, M.D. . . . Assistant in Radiology
 Louis Aitken, M.D.¹ Assistant in Radiology

Oscar C. Zink, M.D. Assistant in Clinical Radiology

Principles of Roentgenology. A course of lectures and demonstrations. Three one-hour periods per week for four weeks. 12 hours. Professor Moore, Dr. Zink

OPHTHALMOLOGY²

Harvey J. Howard, M.D.,
 Oph.D. Professor of Ophthalmology
 Charles Weiss, M.D., Ph.D. . Associate Professor of Applied Bacteriology and Immunology in Ophthalmology
 Percy Wells Cobb, M.D. . . Associate Professor of Applied Biophysics in Ophthalmology
 Harvey D. Lamb, M.D. . . Assistant Professor of Ophthalmic Pathology
 Marion C. Morris, A.B. . . Assistant in Applied Bacteriology and Immunology in Ophthalmology
 William M. James, M.D. . . Assistant in Ophthalmology
 Garvey B. Bowers, A.M. . . Assistant in Applied Bacteriology and Immunology in Ophthalmology

William E. Shahan, M.D. . Professor of Clinical Ophthalmology
 Meyer Wiener, M.D. . . . Associate Professor of Clinical Ophthalmology
 William F. Hardy, M.D. . . Associate Professor of Clinical Ophthalmology
 Frederick E. Woodruff, M.D. Assistant Professor of Clinical Ophthalmology

¹ January 1, 1930, to June 30, 1930.

² The names before the break in the column are those of the full-time staff.

Lawrence T. Post, M.D. . . .	Assistant Professor of Clinical Ophthalmology
M. Hayward Post, M.D. . . .	Assistant Professor of Clinical Ophthalmology
Max W. Jacobs, M.D.	Assistant Professor of Clinical Ophthalmology
Frederick O. Schwartz, M.D.	Assistant Professor of Clinical Ophthalmology
Bennett Y. Alvis, M.D. . . .	Instructor in Clinical Ophthalmol- ogy
Amalie M. Napier, M.D. . . .	Assistant in Clinical Ophthalmol- ogy
Leo Mayer, M.D.	Assistant in Clinical Ophthalmol- ogy
Grover H. Poos, M.D.	Assistant in Clinical Ophthalmology
Carl C. Beisbarth, M.D. . . .	Assistant in Clinical Ophthalmology
Joseph S. Waldman, M.D. . . .	Assistant in Clinical Ophthalmology

Third Year

1. OPTHALMOLOGY. One lecture a week is given in the third trimester. 11 hours. Professor Wiener

Fourth Year

2. OPTHALMOSCOPY. Dark-room demonstrations to small groups are given in the fourth year. 12 hours.

Professor Woodruff, Professor M. H. Post

3. *Elective Course in Clinical Ophthalmology.* Practical instruction in diagnosis and treatment of eye diseases is given to small sections of the class. Eight hours a week for one-half trimester. 44 hours.

Professor Hardy, Professor Lawrence Post, Professor Jacobs,
Professor Schwartz, Dr. Alvis

OTO-LARYNGOLOGY¹

- Lee W. Dean, M.D. Professor of Oto-Laryngology
William H. Johnston, M.D. . . . Instructor in Oto-Laryngology

¹ The names before the break in the column are those of the full-time staff.

William F. Wenner, Ph.D. . . . Instructor in Experimental Physiology in Oto-Laryngology
 Lawrence E. Darrough, M.D. . . . Assistant in Oto-Laryngology
 Glenn Greenwood, M.D. . . . Assistant in Oto-Laryngology
 Dorothy Wolff, M.A. . . . Assistant in Oto-Laryngology
 Clair S. Linton, M.S. . . . Student Assistant in Oto-Laryngology

Harry W. Lyman, M.D. . . . Assistant Professor of Clinical Oto-Laryngology
 Millard F. Arbuckle, M.D. . . . Assistant Professor of Clinical Oto-Laryngology
 Arthur W. Proetz, M.D. . . . Assistant Professor of Clinical Oto-Laryngology
 Arthur M. Alden, M.D. . . . Assistant Professor of Clinical Oto-Laryngology
 Isaac D. Kelley, Jr., M.D. . . . Assistant Professor of Clinical Oto-Laryngology
 Charles L. Davis, M.D. . . . Instructor in Clinical Oto-Laryngology
 French K. Hansel, M.D. . . . Instructor in Clinical Oto-Laryngology
 Bernard J. McMahon, M.D. . . . Instructor in Clinical Oto-Laryngology
 George Hourn, M.D. . . . Instructor in Clinical Oto-Laryngology
 William L. Hanson, M.D. . . . Assistant in Clinical Oto-Laryngology
 Francis C. Howard, M.D.¹ . . . Assistant in Clinical Oto-Laryngology
 Edward H. Lane, M.D. . . . Assistant in Clinical Oto-Laryngology
 Louis E. Freimuth, M.D. . . . Assistant in Clinical Oto-Laryngology
 Helen Gage, M.D. . . . Assistant in Clinical Oto-Laryngology

¹ Died, January 12, 1930.

James B. Costen, M.D.	Assistant in Clinical Oto- Laryngology
Harry N. Glick, M.D.	Assistant in Clinical Oto- Laryngology
Louis J. Birsner, M.D.	Assistant in Clinical Oto- Laryngology

Third Year

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

Professor Dean and Staff

Fourth Year

Oto-Laryngology. Elective course. Instruction is given to small sections of the class. Eight hours a week for one-half trimester. 44 hours.

Professor Lyman, Professor Arbuckle, Professor Proetz
Professor Alden, Professor Kelley, Dr. Johnston

OBSTETRICS AND GYNECOLOGY¹

Otto H. Schwarz, M.D.	Professor of Obstetrics and Gynecology
William J. Dieckmann, M.D.	Associate Professor of Obstetrics and Gynecology
T. Kenneth Brown, M.D.	Instructor in Obstetrics and Gynecology Assistant in Obstetrics and Gynecology
John E. Hobbs, M.D.	Gynecology Assistant in Obstetrics and Gynecology
Carl R. Wegner, M.D.	Gynecology
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Harry S. Crossen, M.D.	Professor of Clinical Gynecology
Fred J. Taussig, M.D.	Professor of Clinical Obstetrics and Gynecology
Grandison D. Royston, M.D.	Assistant Professor of Clinical Obstetrics and Gynecology
Quitman U. Newell, M.D.	Assistant Professor of Clinical Obstetrics and Gynecology
Hugo Ehrenfest, M.D.	Assistant Professor of Clinical Obstetrics and Gynecology

¹ The names before the break in the column are those of the full-time staff.

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- Frank P. McNalley, M.D. . . . Assistant Professor of Clinical
Obstetrics and Gynecology
- Charles D. O'Keefe, M.D. . . . Assistant Professor of Clinical
Obstetrics and Gynecology
- Otto S. Krebs, M.D. Instructor in Clinical Obstetrics
and Gynecology
- Adolph G. Schlosstein, M.D. . Instructor in Clinical Obstetrics
and Gynecology
- E. Lee Dorsett, M.D. Instructor in Clinical Obstetrics
and Gynecology
- John R. Vaughan, M.D. Instructor in Clinical Obstetrics
and Gynecology
- Raymond M. Spivy, M.D. . . . Instructor in Clinical Obstetrics
and Gynecology
- Richard Paddock, M.D. Instructor in Clinical Obstetrics
and Gynecology
- Oda O. Smith, M.D. Instructor in Clinical Obstetrics
and Gynecology
- Robert J. Crossen, M.D. Instructor in Clinical Obstetrics
and Gynecology
- Grover B. Liese, M.D. Assistant in Clinical Obstetrics
and Gynecology
- Francis J. Canepa, M.D. Assistant in Clinical Obstetrics
and Gynecology
- Eugene A. Vogel, M.D. Assistant in Clinical Obstetrics
and Gynecology
- Charles Drabkin, M.D. Assistant in Clinical Obstetrics
and Gynecology
- Dudley R. Smith, M.D. Assistant in Clinical Obstetrics
and Gynecology
- Myron W. Davis, M.D. Assistant in Clinical Obstetrics
and Gynecology
- Karl J. Balazs, M.D. Assistant in Clinical Obstetrics
and Gynecology
- Melvin C. Roblee, M.D. Assistant in Clinical Obstetrics
and Gynecology
- Franz Arzt, M.D. Assistant in Clinical Obstetrics
and Gynecology

Third Year

1. OBSTETRICS AND GYNECOLOGY.

(a) Obstetrics Recitations and Demonstrations. This course consists of recitations and demonstrations based upon assigned reading of a prescribed text-book, and deals with the physiology and pathology of pregnancy, labor, and the puerperium. One hour a week throughout the year. 33 hours.

Professor O. Schwarz, Professor Dieckmann

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

Professor McNalley, Dr. Paddock, Dr. R. J. Crossen

(c) Clinical Lectures on Selected Gynecological Subjects. One hour a week during the second trimester. 11 hours.

Professor Crossen, Professor Taussig, and Associates

(d) Gynecological and Obstetrical Diagnosis (Dispensary). One subsection (one-sixth of the class) works in the Dispensary under supervision and receives instruction in pelvic examination. At the same time the other subsection (one-sixth of the class) works in the prenatal clinic. Two hours a week for eleven weeks (in sections of one-third of the class). 22 hours.

Professor Newell, Professor O'Keefe, Dr. Paddock,
Dr. D. R. Smith, Dr. T. K. Brown, Dr. Davis

Fourth Year

2. OBSTETRICS AND GYNECOLOGY.

(a) Attendance on Obstetrical Cases. The obstetrical service furnishes more than 1,600 cases (about 1,200 hospital and about 400 out-clinic cases). The students attend these cases personally during delivery and visit them during the lying-in period. All work is done under the supervision of instructors. Attendance on these cases is required during the five and one-half weeks'

period that the student is assigned to Obstetrics during his fourth year. Twelve cases are required for each student. Students are urged to volunteer for obstetrical out-patient duty during the summer vacation between the third and fourth years, as the required number of cases cannot be obtained during the assigned five and one-half weeks' period.

Professor O. Schwarz, Professor Dieckmann, Professor Taussig,
Professor McNalley, Dr. Paddock, Dr. Brown

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

Professor O. Schwarz, Professor Crossen

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

Professor O. Schwarz, Professor Dieckmann, Professor Taussig,
Professor Royston, Professor Ehrenfest

(d) Gynecological Ward Work. Sections composed of one-sixth of the class work in the Gynecological Division of the Barnes Hospital for a period of five and a half weeks. The members of these sections, under guidance of instructors, participate in the entire work. They take histories and make examinations (including those of the laboratory); make ward rounds, and attend the diagnostic and operative clinics. Six hours a week for five and a half weeks. 33 hours.

Professor Crossen, Professor Taussig, Professor Newell,
Professor O'Keefe

Elective Courses

(a) *Obstetrical Dispensary*. An elective course in which a small section of the class receives practical instruction in the prenatal clinic eight hours a week for one-half trimester. 44 hours.

Cleon E. Colgate, M.D. . . . Assistant in Clinical Pediatrics
Edwin H. Rohlfing, M.D. . . . Assistant in Clinical Pediatrics

Fellow

Milton J. E. Senn, M.D. . . . Research Fellow in Pediatrics

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.

Professor McCulloch, Dr. Irvine-Jones

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

Professor Marriott, Professor Cooke, Professor Hartmann,

Fourth Year

3. PEDIATRIC WARD WORK. Examination of assigned cases in the wards of the St. Louis Children's Hospital and the St. Louis Isolation Hospital. Discussion of diagnosis and treatment. Individual instruction in preparation of milk formulas, examination of throat cultures, and such procedures as lumbar puncture, intubation, administration of antitoxin, vaccination, etc. Daily for five and one-half weeks. 33 hours.

Professor Veeder, Professor Cooke, Professor Hartmann,
Professor Hempelmann, Professor Smyth, Dr. Colgate

4. PEDIATRIC CLINIC. A weekly amphitheater clinic is held throughout the school year. Demonstration of selected cases from the Hospital and from the Dispensary. 33 hours.

Professor Marriott

5. CLINICAL AND PATHOLOGICAL CONFERENCES. This course is given jointly by the Clinical Departments and the Department of

Pathology. Each student is supplied with the clinical histories of the cases coming to autopsy. The pathological material is demonstrated and the cases discussed from the clinical and pathological sides. Approximately one-third of the course is devoted to pediatric cases. (See Pathology 2.)

Elective Courses

6. *Pediatric Dispensary.* An elective course consisting of practical work in history taking, physical and laboratory diagnosis, and infant feeding. Eight hours a week for one-half trimester. 44 hours. Other hours by arrangement.

Professor Cooke, Professor Smyth, and Assistants

7. *Research.* Properly qualified students may engage in clinical or laboratory research under the direction of the Pediatric Staff.

Military Science and Tactics

Robert M. Hardaway, Jr., M.D.,

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

A Medical Unit of the Reserve Officers' Training Corps is maintained and instruction is given as a part of the regularly scheduled school work by an officer of the Medical Corps of the Regular Army detailed to the School for the purpose. The work is divided as follows:

- (a) Basic Course—first and second years.
- (b) Advanced Course—third and fourth years.
Summer Training Camp—six weeks.

Enrollment for both the (a) and the (b) sections is optional and does not obligate the student to any military duty except to complete the course undertaken.

The instruction is designed: (1) to give the student a clear understanding of the Constitution, the Federal Government, Military Law, and our National Defense Policies, past and present; (2) to teach Hygiene and Sanitation as it is practiced in the Regular Army; and (3) to give a practical working knowledge of the Medical Department. In short, the instruction prepares

the student for a commission in the Medical Section, Officers' Reserve Corps.

The Summer Training Camp is an essential part of the Advanced Course and may be attended after the second or third year.

From those students whose records in the Basic Course are satisfactory will be selected those to be enrolled in the Advanced Course. Those so enrolled have, in fact, obtained a scholarship of a value slightly greater than \$200.00—for during the third and fourth years the student is paid commutation of rations at the prescribed rate, approximately thirty cents per day, except for the period of the Training Camp, when he receives seventy cents per day and is furnished shelter, rations, clothing, and equipment. He is paid five cents per mile travel allowance to and from camp.

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

Appointments as Internes in a few of the larger Army Hospitals are open to a limited number of graduates who are commissioned. Those appointed serve as First Lieutenants (Reserve) and receive the pay and allowances of the grade.

Appointments in the Medical Corps of the Regular Army will be offered to Internes whose work is of high standard and who manifest the other necessary qualifications.

MISCELLANEOUS COURSES

Medical Jurisprudence

James M. Douglas, LL.B. . Instructor in Medical Jurisprudence

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.

Stomatology

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

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

Professor Ewerhardt

Medical Ethics and Professional Conduct

MEDICAL ETHICS AND PROFESSIONAL CONDUCT. An elective course consisting of informal discussions during the third trimester of the fourth year. 7 hours.

Dr. Park J. White

POST-GRADUATE COURSES

During the year courses in the following subjects are offered to a limited number of registered practitioners of medicine or graduates in medicine who are not registered practitioners:

PEDIATRICS. A four weeks' course in Infant Feeding and Diseases of Childhood is offered twice a year, in April and October.

OBSTETRICS AND GYNECOLOGY. A four weeks' course in Obstetrics and Diagnostic Gynecology is offered once a year, beginning in May.

INTERNAL MEDICINE. A four weeks' course in Internal Medicine is offered during the month of May.

DISEASES OF THE HEART. A five-day course in the more common diseases of the heart is offered twice a year, beginning on the first Monday in March and October.

For full information in regard to these courses, address the Registrar, Washington University School of Medicine.

GENERAL SCHEDULES

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1930-31

Schedule of First Year. September 25-December 13, inclusive

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

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1930-31

Schedule of First Year. December 15-January 31, inclusive

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

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1930-31

Schedule of First Year. February 2-May 29, 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 Chemistry Lecture Chemistry 3 ($\frac{1}{2}$ Class)	Physiology Lecture Physiology 2
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		Military Science and Tactics 1			Physiology Lecture Physiology 2	Biological Chemistry Laboratory Chemistry 3
12 to 1	Physiology Lecture Physiology 2	Physiology Lecture Physiology 2			Biological Chemistry Lecture Chemistry 3 ($\frac{1}{2}$ Class)	Biological Chemistry Laboratory Chemistry 3
2 to 3	Dissection Anatomy 1					
3 to 4			Dissection Anatomy 1		Dissection Anatomy 1	
4 to 5						

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1930-31

Schedule of Second Year. First Trimester

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

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1930-31

Schedule of Second Year. Second Trimester

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 1a		Medicine Recitation Medicine 1b
11 to 12		Pharmacology Lecture Pharmacology 1a				Pathology Recitation Pathology 1b
12 to 1		Military Science and Tactics 1				
1 to 2			Infection and Immunity Laboratory B. and I. 2			
2 to 3	Pharmacology Lecture Pharmacology 1a	Pharmacology Laboratory Pharmacology 1b		Pathology Recitation Pathology 1b		
3 to 4	Physical Diagnosis			Physical Diagnosis		
4 to 5	Medicine 2			Medicine 2		

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1930-31

Schedule of Second Year. Third Trimester

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

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1930-31

Schedule of Third Year. First Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pediatrics Clinical Conference Pediatrics 2	Medicine Recitation Medicine 9	Pediatrics Clinical Conference Pediatrics 2	Medicine Recitation Medicine 9		Neurology Lecture and Neuro-Pathology Neurology 1a and 1b
10 to 11	Group A Medicine 6 Group B Surgery 2a	Group A Medicine 6 Group B Surgery 2a	Group A Medicine 6 Group B Surgery 2a	Group A Medicine 6 Group B Surgery 2a	Group A Medicine 5 Group B Surgery 2a	
11 to 12	Group C Obstetrics 1b	Group C $\frac{1}{2}$ Neurology 1c $\frac{1}{2}$ Pediatrics 1	Group C Obstetrics 1b	Group C $\frac{1}{2}$ Neurology 1c $\frac{1}{2}$ Pediatrics 1		
12 to 1	Surgery Recitation Surgery 2b	Surgery Clinic Surgery 2e		Surgery Conference Surgery 2f	Obstetrics Recitation Obstetrics 1a	Medicine Clinic Medicine 10c
2 to 3	Group C Gynecology 1b	Gross Pathology Pathology 1d	Surgical Pathology Surgery 3	Public Health B. and I. 3	Clinical Microscopy Medicine 4	
3 to 4				Military Science and Tactics 2		
4 to 5	Clinical Patho- logical Conference Pathology 2					

Note.—A course of eleven lectures in Stomatology is required during the third year.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1930-31

Schedule of Third Year. Second Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pediatrics Clinical Conference Pediatrics 2	Medicine Recitation Medicine 9	Pharmacology Lecture Pharmacology 1a	Medicine Recitation Medicine 9		Neurology Lecture Neurology 1a
10 to 11	Group A Obstetrics 1b	Group A $\frac{1}{2}$ Neurology 1c $\frac{1}{2}$ Pediatrics 1	Group A Obstetrics 1b	Group A $\frac{1}{2}$ Neurology 1c $\frac{1}{2}$ Pediatrics 1	Group B Medicine 5 Group C Surgery 2a	Pediatrics Clinical Conference Pediatrics 2
11 to 12	Group B Medicine 6 Group C Surgery 2a	Group B Medicine 6 Group C Surgery 2a	Group B Medicine 6 Group C Surgery 2a	Group B Medicine 6 Group C Surgery 2a		Therapeutics Medicine 7
12 to 1	Surgery Recitation Surgery 2b	Surgery Clinic Surgery 2c	Gynecology Lecture Gynecology 1a	Surgery Conference Surgery 2f	Pharmacology Lecture Pharmacology 1a	Medicine Clinic Medicine 10c
2 to 3	Obstetrics Recitation Obstetrics 1a	Public Health B. and I. 3	Surgical Pathology Surgery 3	Group A Gynecology 1b		
3 to 4	Dietetics Medicine 8	Military Science and Tactics 2				
4 to 5	Clinical Patho- logical Conference Pathology 2	Applied Anatomy Anatomy 9		Applied Anatomy Anatomy 9		

Note.—A course of eleven lectures in Stomatology is required during the third year.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1930-31

Schedule of Third Year. Third Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pediatrics Clinical Conference Pediatrics 2	Medicine Recitation Medicine 9	Laryn. & Rhin. Lecture Oto-Laryngology 1	Medicine Recitation Medicine 9		Pediatrics Clinical Conference 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	Genito-Urinary Surgery Lecture Surgery 2g
11 to 12	Group B Obstetrics 1b Group C Medicine 6	Group B $\frac{1}{2}$ Neurology 1c $\frac{1}{2}$ Pediatrics 1 Group C Medicine 6	Group B Obstetrics 1b Group C Medicine 6	Group B $\frac{1}{2}$ Neurology 1c $\frac{1}{2}$ Pediatrics 1 Group C Medicine 6		Group C Medicine 5	Military Science and Tactics 2
12 to 1	Fractures Surgery 2c	Surgery Clinic Surgery 2e	Dietetics Medicine 8	Surgery Conference Surgery 2f	Obstetrics Recitation Obstetrics 1a	Medicine Clinic Medicine 10c
2 to 3	Dermatology Lecture Dermatology a	Laryn. & Rhin. Lecture Oto-Laryngology 1	Surgical Pathology Surgery 3	Group B Gynecology 1b	Operative Surgery Surgery 2d	
3 to 4	Ophthalmology Lecture Ophthalmology a					
4 to 5	Clinical Pathological Conference Pathology 2	Medical Jurisprudence	Public Health B. and I. 3		2 Sections $\frac{1}{2}$ trimester each	

Note.—A course of eleven lectures in Stomatology is required during the third year.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1930-31

Schedule of Fourth Year: Group A, First Trimester; Group B, Second Trimester; Group C, Third Trimester.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 12	<p>Medicine 10. Ward Work, Barnes Hospital, or Out Patient Work, Dispensary. Neurology 3. Neurological Ward and Out Patient Work.</p>					
12 to 1	<p>Neurology Clinic Neurology 3b</p>	<p>Surgery Clinic Surgery 4b</p>	<p>Pediatric Clinic Pediatrics 4</p>	<p>Medicine Clinic Medicine 10b</p>	<p>Obstetrics 2b Lecture II Trimester Mil. Sci. and Tac. 2 I & III Trimesters</p>	<p>Medicine Clinic Medicine 10c</p>
2 to 4	1		<p>Ophthalmoscopy $\frac{1}{2}$ the group in 2 sections $\frac{1}{2}$ trimester each</p>	<p>Ophthalmoscopy $\frac{1}{2}$ the group in 2 sections $\frac{1}{2}$ trimester each</p>		
4 to 5	<p>Clinical Pathological Conference Pathology 2 I & II Trimesters</p>	1	1	1	1	1
5 to 6	<p>Military Science and Tactics 2 II Trimester</p>					

¹ Electives. See pp. 131 ff.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1980-81

Schedule of Fourth Year: Group B, First Trimester; Group C, Second Trimester; Group A, Third Trimester.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
9 to 12	Surgery 4a. Ward Work, Barnes or St. Louis Children's Hospital. Surgery 6. Orthopedic Surgery, Barnes or St. Louis Children's Hospital.						
12 to 1	Neurology Clinic Neurology 8b	Surgery Clinic Surgery 4b	Pediatric Clinic Pediatrics 4	Medicine Clinic Medicine 10b	Obstetrics 2b Lecture II Trimester Mil. Sci. and Tac. 2 I & III Trimesters	Medicine Clinic Medicine 10c	
2 to 4	1						
4 to 5	Clinical Pathological Conference Pathology 2 I & II Trimesters						1
5 to 6	Military Science and Tactics 2 II Trimester						

¹ Electives. See pp. 181 ff.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1930-31

Schedule of Fourth Year: Group C, First Trimester; Group A, Second Trimester; Group B, Third Trimester.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Section 1. Obstetrics 2c. Ward Work, St. Louis Maternity Hospital: 9-10. Section 2. { Gynecology 2. Ward Work, Barnes Hospital: 9-11, M., W., Th. Pediatrics 3. Ward Work, St. Louis Children's Hospital: 9-10, T., F., S.; 11-12, M., W., Th. Sections change at the middle of the trimester.					
10 to 12	1	1	1	1	1	1
12 to 1	Neurology Clinic Neurology 3b	Surgery Clinic Surgery 4b	Pediatric Clinic Pediatrics 4	Medicine Clinic Medicine 10b	Obstetrics 2b Lecture II Trimester Mil. Sci. and Tac. 2 I & III Trimesters	Medicine Clinic Medicine 10c
2 to 4	Section 1. Obstetrics 2c. Ward Work, St. Louis Maternity Hospital. Section 2. Elective Work.					
4 to 5	Clinical Pathological Conference Pathology 2 I & II Trimesters					
5 to 6	Military Science and Tactics 2 II Trimester					

¹ Electives. See pp. 131 ff.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
Schedule of Fourth Year Elective Out Patient Specialties, 2-4 p. m.

1930-31

GROUP SECTION	MONDAY						TUESDAY						WEDNESDAY						THURSDAY						FRIDAY						
	1st Tri.		2nd Tri.		3rd Tri.		1st Tri.		2nd Tri.		3rd Tri.		1st Tri.		2nd Tri.		3rd Tri.		1st Tri.		2nd Tri.		3rd Tri.		1st Tri.		2nd Tri.		3rd Tri.		
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	
A	1	Op	D		P	G	OL	Op	D		P	G	OL	Op			P	G	OL		D					Op	D		P	G	OL
	2	D	Op	P		OL	G	D	Op	P		OL	G		Op	P		OL	G	D						D	Op	P		OL	G
B	1	G	OL	Op	D		P	G	OL	Op	D		P	G	OL	Op		P				D				G	OL	Op	D		P
	2	OL	G	D	Op	P		OL	G	D	Op	P		OL	G		Op	P				D				OL	G	D	Op	P	
C	1		P	G	OL	Op	D		P	G	OL	Op	D		P	G	OL	Op							D		P	G	OL	Op	D
	2	P		OL	G	D	Op	P		OL	G	D	Op	P		OL	G		Op					D		P		OL	G	D	Op

KEY TO NUMERALS AND ABBREVIATIONS

I and II at head of columns indicate first and second halves of the trimester.
 Sections 1 and 2 are rotating sections within a group.
 D, Dermatology; G, Gynecology; OL, Oto-Laryngology; Op, Ophthalmology; P, Pediatrics.

ELECTIVES

Students are required to obtain credit for at least three hundred hours of elective work. This may be acquired entirely in the fourth year or at any time during the four years course. See page 81. To obtain credit for an elective course the student must have formally registered in that course with the consent of the instructor concerned. A partial list of available courses follows:

Ophthalmology: A minimum of four periods of 2 hours each per week for one-half trimester in groups of not more than one-sixth of the class. 44 hours.¹ (2 to 4 p. m.)

Dermatology: A minimum of four periods of 2 hours each per week for one-half trimester in groups of not more than one-sixth of the class. 44 hours.¹ (2 to 4 p. m.)

Gynecology: A minimum of four periods of 2 hours each per week for one-half trimester in groups of not more than one-sixth of the class. 44 hours.¹ (2 to 4 p. m.)

Oto-Laryngology: A minimum of four periods of 2 hours each per week for one-half trimester in groups of not more than one-sixth of the class. 44 hours.¹ (2 to 4 p. m.)

Pediatrics: A minimum of four periods of 2 hours each per week for one-half trimester in groups of not more than one-sixth of the class. 44 hours.¹ (2 to 4 p. m.)

Genito-Urinary Surgery: A minimum of three periods of 2 hours each per week for one-half trimester in groups of not more than one-sixth of the class. May be taken in the morning by the Pediatrics-Obstetrics group. 33 hours.¹ (10 a. m. to 12 m.)

Medicine: Diagnosis and Treatment of Diseases of the Digestive Tract. (2 to 4 p. m.)

Obstetrics: Pre-Natal Clinic. Hours by arrangement.

Neurology: Neurological Clinic. Hours by arrangement. (10 a. m. to 12 m.)

Neurology: Psychiatry. Two and one-half hours per week during the second trimester. 28 hours.

¹ Additional hours by arrangement.

Surgery: Advanced Operative Surgery. One two-hour period per week during the first trimester. 22 hours.

Anatomy: Topographical Anatomy. Hours by arrangement.

Medicine: Applied Immunology. Hours by arrangement.

Surgery: Principles of Roentgenology. Three one-hour periods per week for one-half trimester. 16 hours.

Medical Ethics: Seven one-hour lectures during the second trimester. 7 hours.

Physical Therapeutics: Hours by arrangement.

Other elective courses in any department. Hours to be arranged.

Research in any department. Hours to be arranged.

In computing the number of hours elected, one hour a week for one trimester, or two hours a week for one-half trimester, amounts to 11 hours. The total of 300 hours may be obtained by electing ten hours a week throughout the year in some one department, or by combining smaller amounts of credit in a number of subjects.

The chart on the preceding page indicates how each student may elect all out-patient specialties if he so desires. It exemplifies a possible working schedule for each group throughout the three trimesters. Each group is divided into two sections, and each trimester into halves.

A student may elect these courses at other than the times indicated, provided the section with which he desires to work has not its full quota of students.

STUDENTS

PHYSICIANS ATTENDING GRADUATE COURSES BETWEEN
JANUARY 1 AND DECEMBER 31, 1929

Alton, Robert A., M.D.	Heart	Lansing, Mich.
Arrington, George L., M.D.	Pediatrics	Meridian, Miss.
Barendrick, William H., M.D.	Heart	McMinnville, Ore.
Bartran, William H., M.D.	Heart	Green Bay, Wis.
Beatty, John F., M.D.	Obstetrics and Gynecology	Everett, Wash.
Beede, Clark E., M.D.	Internal Medicine	David City, Neb.
Berk, Louis, M.D.	Heart	Warren, Ohio
Betts, William H., M.D.	Genito-Urinary Surgery	St. Louis, Mo.
Blount, Justin A., M.D.	Pediatrics	Burdett, Kan.
Boggs, Eugene F., M.D.	Internal Medicine	Indianapolis, Ind.
Braddy, Don Ludlow, M.D.	Heart	Adel, Iowa
Brown, Walter D., M.D.	Pediatrics	Beaumont, Tex.
Browne, Rhodric W., M.D.	Heart	Ft. Bayard, N. M.
Carlisle, Margil C., M.D.	Pediatrics	Cisco, Tex.
Chiles, William W., M.D.	Obstetrics and Gynecology	Dalton, Ohio
Clark, Clifford P., M.D.	Obstetrical Pathology	Flint, Mich.
Coakley, Walter F., M.D.	Pediatrics	Hamilton, Ohio
Cochran, John H., M.D.	Pediatrics	Gideon, Mo.
Coffey, Erval R., M.D.	Pediatrics	Jefferson City, Mo.
Coon, Arthur B., M.D.	Heart	Little Rock, Ark.
Dalton, Arthur J., M.D.	Heart	Champaign, Ill.
Davis, Morris, M.D.	Obstetrics and Gynecology	New Castle, Pa.
Davison, Bruce H., M.D.	Internal Medicine	Port Arthur, Tex.
Devers, Washington I., M.D.	Obstetrics and Gynecology	Upland, Neb.
Dillard, Malcolm F., M.D.	Pediatrics	Detroit, Mich.
Evans, John R., M.D.	Obstetrics and Gynecology	Racine, Wis.
Fallet, Charles E., M.D.	Internal Medicine	DeSoto, Mo.
Findlater, John C., M.D.	Pediatrics	San Angelo, Tex.
Foster, Millard H., M.D.	Internal Medicine	Zionsville, Ind.
Freise, Paul W., M.D.	Obstetrics and Gynecology	Bismarck, N. D.
Fryer, Claude P., M.D.	Pediatrics	Maryville, Mo.
Ganyard, Ford C., M.D.	Pediatrics	Wooster, Ohio
Gobbel, Novy E., M.D.	Obstetrics and Gynecology	English, Ind.
Goeh, James W., M.D.	Pediatrics	Shamrock, Tex.
Greer, Miller, M.D.	Pediatrics	Vandalia, Ill.
Gunning, R. E. Lee, M.D.	Internal Medicine	Galesburg, Ill.
Harris, Carl N., M.D.	Pediatrics	Hibbing, Minn.
Haw, Uriel P., M.D.	Pediatrics	Benton, Mo.
Hilgenberg, James F., M.D.	Internal Medicine	Pesotum, Ill.
Hirst, Ottis G., M.D.	Heart	Prescott, Ark.
Hoffmann, Alfred A., M.D.	Obstetrics and Gynecology	Waterloo, Iowa
Humphrey, Hall H., M.D.	Pediatrics	Daykin, Neb.
Hunter, Leslie L., M.D.	Pediatrics	Midland, Pa.
Jeston, Joseph W., M.D.	Heart	St. Paul, Minn.
Johnson, James K., M.D.	Obstetrics and Gynecology	Rockford, Ill.
Johnson, Julius A., M.D.	Heart	Omaha, Neb.
Johnston, William W., M.D.	Pediatrics	Farmington, Mo.
Keaney, Henry J., M.D.	Internal Medicine	Everett, Mass.
Keown, Charles, M.D.	Obstetrics and Gynecology	Independence, Mo.
Kessler-Fruse, Saba	Pediatrics	Bay City, Mich.
Konzen, Leo H., M.D.	Heart	Wood River, Ill.
Kruse, Frieda L., M.D.	Pediatrics	San Francisco, Cal.
Landay, Louis H., M.D.	Internal Medicine	Aliquippa, Pa.
Landry, Adrian A., M.D.	Heart	Plaquemine, La.
Lee, James R. M.D.	Pediatrics	Charleston, Mo.
Lewis, Charles W., M.D.	Pediatrics	Eunice, La.
Longacre, Charles E., M.D.	Obstetrics and Gynecology	Lindsborg, Kan.
Lucke, Eugene M., M.D.	Pediatrics	Hannibal, Mo.
Madtson, Martha M., M.D.	Pediatrics; Obstetrics and Gynecology	Beloit, Kan.
Marr, Norval M., M.D.	Internal Medicine	St. Petersburg, Fla.
Marsh, H. Adelbert, M.D.	Obstetrics and Gynecology	Syracuse, N. Y.
Matlock, Eugene W., M.D.	Obstetrics and Gynecology	Port Arthur, Tex.

McGhee, Harrison J., M.D.	Internal Medicine; Obstetrics and Gynecology	Kane, Pa.
McNamara, Thaddeus M., M.D.	Obstetrics and Gynecology	Bakersfield, Cal.
McNish, George T., M.D.	Obstetrics and Gynecology	Mt. Pleasant, Pa.
Middlekauff, Harry G., M.D.	Pediatrics	Meyers Cave, Va.
Mills, George E., M.D.	Internal Medicine	Evansville, Ind.
Mitchell, Earl H., M.D.	Heart	Indianapolis, Ind.
Moffat, Gordon B., M.B.	Pediatrics	Detroit, Mich.
Monfort, John A., M.D.	Pediatrics	Brooklyn, N. Y.
Morris, Thomas M., M.D.	Pediatrics	Mt. Calm, Tex.
Murray, Doris A., M.D.	Pediatrics	Olean, N. Y.
Nelson, Raymond N., M.D.	Pediatrics	Horicon, Wis.
Norman, Earle T., M.D.	Pediatrics	Shamrock, Tex.
Norton, Harry B., M.D.	Heart	Center, Mo.
Nunemaker, Tunis, M.D.	Pediatrics	Portsmouth, Ohio
Nuzum, Thomas O., M.D.	Heart	Janesville, Wis.
O'Bannon, William N., M.D.	Pediatrics	New Madrid, Mo.
O'Connor, Maurice J., M.D.	Pediatrics	Detroit, Mich.
Orendorf, Bell T., M.D.	Pediatrics	Baton Rouge, La.
Petty, Wallace S., M.D.	Pediatrics	Caruthersville, Mo.
Potts, Steve E., M.D.	Pediatrics	Nashville, Tenn.
Preston, Willard F., M.D.	Obstetrics and Gynecology	Wilmington, Del.
Quinn, William R., M.D.	Obstetrics and Gynecology	Dawson, N. M.
Raby, James G., M.D.	Pediatrics	Tarboro, N. C.
Rogers, Rupert R., M.D.	Pediatrics	Warren, Ohio
Scherer, Phil H., M.D.	Obstetrics and Gynecology	St. Louis, Mo.
Sloo, Milo G., M.D.	Pediatrics	Topeka, Kan.
Smelser, Herman W., M.D.	Obstetrics and Gynecology	Connersville, Ind.
Smith, William H., M.D.	Pediatrics	Hondo, Tex.
Snaith, Theresa O., M.D.	Pediatrics	Weston, W. Va.
Spence, Elbert L., M.D.	Pediatrics	Kennett, Mo.
Stephens, Charles M., M.D.	Pediatrics	Waycross, Ga.
Straus, Henry W., M.D.	Pediatrics	Boston, Mass.
Suggett, Finis C., M.D.	Pediatrics	Columbia, Mo.
Swearingen, Mercer, M.D.	Internal Medicine	Port Arthur, Tex.
Tennant, Russell W., M.D.	Pediatrics	Long Beach, Cal.
Thompson, Alfred A., M.B.	Obstetrics and Gynecology	Mt. Clemens, Mich.
Thompson, Arthur, M.D.	Internal Medicine	Raymond, Minn.
Tillotson, Maude H., M.D.	Pediatrics	San Francisco, Cal.
Tippins, Henry L., M.D.	Pediatrics	Savannah, Ga.
Travenick, Joseph, Jr., M.D.	Genito-Urinary Surgery	Nashville, Tenn.
Ungles, James B., M.D.	Pediatrics	Satanta, Kan.
Vallette, Horace B., M.D.	Internal Medicine; Obstetrics and Gynecology	Jewell, Kan.
Verdery, William C., M.D.	Pediatrics	Fayetteville, N. C.
Walker, Agnew A., M.D.	Pediatrics	Wewoka, Okla.
Wampler, George M., M.D.	Genito-Urinary Surgery	Jasper, Tenn.
Warnock, Archibald W., M.D.	Pediatrics	San Pedro, Cal.
Warren, John R., M.D.	Internal Medicine	Lower Salem, Ohio
Waterbury, Charles A., M.D.	Pediatrics	Waterloo, Iowa
Webb, Leslie R., M.D.	Internal Medicine	Springfield, Mo.
Webb, Verdo T., M.D.	Pediatrics	Little Rock, Ark.
Weese, William J., M.D.	Electrocardiography	Ontario, Ore.
Weiss, Martin, M.D.	Pediatrics	Binghamton, N. Y.
Wiedemann, Frank E., M.D.	Heart	Terre Haute, Ind.
Williams, Charles A., M.D.	Internal Medicine	Dolard, S. D.
Williams, James H., M.D.	Pediatrics	McKenzie, Tenn.
Williams, John W., M.D.	Pediatrics	Springfield, Mo.
Willingham, Charles E., M.D.	Pediatrics	Tyler, Tex.
Winstead, D. Edgar, M.D.	Pediatrics	Graham, Tex.
Woodward, Clayton E., M.D.	Heart	Decatur, Ill.
Yahlem, Adela, M.D.	Heart	St. Louis, Mo.
		Total, 122

FOURTH YEAR CLASS

Allen, Horace Edward	Butler, Mo.
B.S., Univ. of Mo., '28.	
Alsop, William Edes	Honolulu, Hawaii
A.B., Univ. of Neb., '25.	
Bankhead, Henry Miller	Clarksville, Mo.
Barry, George Newton	Picher, Okla.
A.B., Univ. of Mo., '25.	

Bauer, Louis	St. Louis, Mo.
B.S., Washington Univ., '28.	
Blenker, Russell Melvin.....	Huntingburg, Ind.
A.B., DePauw Univ., '26.	
Boal, Robert Weston.....	St. Louis, Mo.
B.S., Washington Univ., '28.	
Bowman, Harold Samuel.....	Greenfield, Ill.
A.B., Illinois Coll., '26.	
Boyles, Joe Merritt.....	Whittington, Ill.
Brennecke, Marvin Amos.....	Jackson, Mo.
B.S., Univ. of Mo., '28.	
Burgess, John Paul.....	Salina, Utah
A.B., Univ. of Utah, '26.	
Byland, Benjamin Frank.....	Richmond Heights, Mo.
Chamberlin, Donald Tillinghast.....	St. Louis, Mo.
A.B., Washington Univ., '26.	
Coburn, Donald Fairchild.....	Kansas City, Kan.
Conway, James Paul.....	Wisconsin Rapids, Wis.
B.S., Univ. of Wis., '28.	
Cook, William Eugene.....	Hope Mills, N. C.
B.S., Univ. of N. C., '28.	
Corson, Wesley Connelly.....	Springfield, Ill.
Cotton, Thelma Ann.....	Van Buren, Mo.
A.B., Baker Univ., '23.	
DeMotte, John Allan.....	Maryville, Mo.
A.B., Northwest Mo. State Teachers' Coll., '25.	
Diehr, Maurice August.....	St. Charles, Mo.
B.S., Washington Univ., '28.	
Durst, Henry	St. Louis, Mo.
Eggleston, Donald Edwin.....	Kingman, Kan.
Elkins, Higdon Bryant.....	Brashear, Mo.
B.S., Washington Univ., '28.	
Ellett, William Howell.....	Browning, Mo.
A.B., Univ. of Mo., '26.	
Finley, Theodore Longworth.....	St. Louis, Mo.
B.S., Washington Univ., '28.	
Fish, Virgil Otto.....	Fillmore, Ill.
Friend, LeRoy Francis.....	Edmonds, Wash.
B.S., Univ. of Wash., '26.	
Gass, Herbert Hermann.....	Raipur, C. P., India
B.S., Washington Univ., '28.	
Gatley, Cleo Russel.....	St. Louis, Mo.
B.S., Univ. of Mo., '28.	
Gitt, Joe.....	St. Louis, Mo.
Goldman, Hymen Joseph.....	St. Louis, Mo.
B.S., Washington Univ., '28.	
Hand, Orra Robert.....	Minneapolis, Minn.
B.S., Univ. of Wis., '28.	
Harris, Bettie Ullman.....	St. Louis, Mo.
Harrison, Stanley Leonard.....	Maplewood, Mo.
B.S., Washington Univ., '28.	
Hathcock, Alfred Hiram.....	Fayetteville, Ark.
A.B., Univ. of Ark., '26.	
Horton, James Dwight.....	Springfield, Mo.
B.S., Drury Coll., '27.	
Howard, Walter Marion.....	Joplin, Mo.
Irwin, Francis Glenn.....	Geneva, Kan.
Kane, Clyde Ernest.....	Galatia, Ill.
A.B., Univ. of Ill., '26.	
Kemp, Malcolm Drake.....	Elizabethtown, N. C.
Lange, Adolph Charles.....	Webster Groves, Mo.
B.S., Washington Univ., '28.	
Langmack, Robert Sylvan.....	Lebanon, Ore.
Lawson, Dwight	Alba, Mo.
A.B., Univ. of Mo., '28.	
B.S., Univ. of Mo., '28.	
Liebolt, Frederick Lee.....	Fayetteville, Ark.
A.B., Univ. of Ark., '25.	
Livingston, Lawrence Gordon.....	St. Louis, Mo.
Margolin, Ellis Solomon.....	St. Louis, Mo.
A.B., Johns Hopkins Univ., '26.	
Martin, Norvil Alexander.....	University City, Mo.
Mayfield, George Conrad.....	St. Louis, Mo.

McCleave, Thomas Crooke, Jr.	Berkeley, Cal.
A.B., Stanford Univ., '26.	
McElroy, James Lawrence	Marshall, N. C.
B.S., Univ. of N. C., '28.	
Meyer, George Edwin	University City, Mo.
Newmark, Israel David	St. Louis, Mo.
Orenstein, Joseph Myron	St. Louis, Mo.
Orr, Guy Hudson	Waxahachie, Tex.
B.S., Univ. of Okla., '26.	
Pearson, Emmet Forrest	Memphis, Tenn.
A.B., Washington Univ., '26.	
Pipkin, Francis Garrett	Kansas City, Mo.
B.S., Washington Univ., '28.	
Pittman, James Edward	St. Louis, Mo.
A.B., Hendrix Coll., '26.	
Plumpe, William Tupper	St. Louis, Mo.
B.S., Washington Univ., '28.	
Ramlow, Leonard William	Milwaukee, Wis.
B.S., Univ. of Wis., '28.	
Raymond, William Matthew, Jr.	St. Louis, Mo.
B.S., Washington Univ., '28.	
Roth, Leslie William	Murphysboro, Ill.
Scarpellino, Louis Aloysius	Kansas City, Mo.
B.S., Washington Univ., '28.	
Scrivner, Willard Calvin	St. Louis, Mo.
B.S., Washington Univ., '28.	
Smith, Milton	St. Louis, Mo.
B.S., Washington Univ., '28.	
Spickerman, Harold	Topeka, Kan.
Stewart, Wendell	Mt. Vernon, Ill.
Tandy, Roy William	Tracy, Iowa
B.S., Penn. Coll., '23.	
Tate, Waddy Phoelon, Jr.	St. Louis, Mo.
Taylor, Austin Cornelius	Spokane, Wash.
Taylor, Leon Akers	Jefferson City, Mo.
A.B., Univ. of Mo., '26.	
Tess, Melvin John Henry	St. Louis, Mo.
B.S., Washington Univ., '28.	
Thorpe, Ilma Anitra	Owensboro, Ky.
A.B., Univ. of Ky., '22.	
Tidwell, John William	Pittsburg, Ill.
Townsend, Mary Alice (Mrs. John A. DeMotte)	Phillipsburg, Kan.
A.B., Coll. of Emporia, '25.	
Werling, Edmund Henry	Winfield, Kan.
Werner, Harold Theodore	St. Charles, Mo.
B.S., Washington Univ., '28.	
Zelson, Carl	Philadelphia, Pa.
B.S., Univ. of Wis., '28.	

Total, 77

THIRD YEAR CLASS

Altheide, Harvey Edison	St. Louis, Mo.
Barber, Harry Clay	Richmond, Mo.
A.B., Univ. of Mo., '29.	
B.S., Univ. of Mo., '29.	
Bassett, Robert Boyd	St. Louis, Mo.
A.B., Washington Univ., '27.	
Bassett, Sam Ardinger	St. Louis, Mo.
A.B., Dartmouth Coll., '28.	
Basye, Harry Coleman	St. Louis, Mo.
A.B., Baker Univ., '24.	
Benner, Stanley Reuben	Oak Harbor, Wash.
B.S., State Coll. of Wash., '24.	
Betsui, David Takeji	Hanapepe, Kauai, Hawaii
B.S., Univ. of Hawaii, '27.	
Bouquet, Bertram Jacob	Caledonia, Minn.
Brua, Robert Stultz	St. Louis, Mo.
A.B., Univ. of Cal. at Los Angeles, '27.	
Bush, Douglas Moore	Waco, Tex.
A.B., Tex. Christian Univ., '28.	
Calkins, Charles Delevan	Evansville, Wis.
B.S., Univ. of Wis., '29.	

- Cannady, Edward Wyatt.....East St. Louis, Ill.
A.B., Washington Univ., '27.
- Cartwright, Edward Dennis.....Kansas City, Mo.
B.S., Univ. of Wash., '27.
- Cieri, Joseph Domenic.....Clayton, Mo.
A.B., Univ. of Nev., '24.
- Clark, Orville Richolson.....Topeka, Kan.
B.S., Washburn Coll., '27.
- Cochran, John Robert.....Plankinton, S. D.
A.B., Univ. of S. D., '28.
B.S., Univ. of S. D., '29.
- Conroy, Bernard Joseph.....Anaconda, Mont.
- Cooper, John William.....St. Louis, Mo.
A.B., Univ. of Cal. at Los Angeles, '27.
- Crawford, William Massey.....Springfield, Mo.
B.S., Tex. Christian Univ., '27.
- Dowdy, Andrew Hunter.....Blackwater, Mo.
- Drayer, Calvin Searle.....St. Louis, Mo.
A.B., Ohio Wesleyan Univ., '27.
- Dunn, John Edward.....Groton, S. D.
A.B., Univ. of S. D., '28.
B.S., Univ. of S. D., '29.
- Elrod, Dennis Burkley.....Cape Girardeau, Mo.
B.S., Southeast Mo. State Teachers Coll., '27.
- Ent, Lewis Spencer.....Memphis, Tenn.
- Friedman, Benjamin Disraeli.....Long Island, N. Y.
B.S., Coll. of the City of N. Y., '27.
- Garrison, George Emil.....Centralla, Ill.
- Glasscock, Ernest Louis.....Richmond, Mo.
A.B., Univ. of Mo., '28.
- Greenberg, George A.....Bayonne, N. J.
B.S., Univ. of Pa., '27.
- Greene, William Wallace.....Richmond, Mo.
A.B., William Jewell Coll., '28.
- Hankwitz, Arthur Walter.....Milwaukee, Wis.
- Hobbs, Milford Leroy.....Waynesville, Mo.
- Hoover, Herbert Lee, Jr.....Springfield, Mo.
A.B., Univ. of Mo., '29.
B.S., Univ. of Mo., '29.
- Horning, Fred Forest.....Moscow, Idaho
B.S., Univ. of Idaho, '23.
- Hume, Albert Thomson.....Brookings, S.D.
B.S., S. D. State Coll., '26.
- Kaiser, Lloyd Frick.....New Holstein, Wis.
A.B., Univ. of Wis., '28.
- Kelter, William Eugene.....Moberly, Mo.
- Koenig, Karl Frederick.....Alton, Ill.
B.S., Univ. of Ill., '28.
- Krutchkoff, Morris.....Cleveland, Ohio
A.B., Western Reserve Univ., '27.
- Landau, Daniel Berkson.....Hannibal, Mo.
A.B., Univ. of Mo., '29.
B.S., Univ. of Mo., '29.
- Lippincott, Daniel Welles.....St. Louis, Mo.
- Magnes, Max.....Paterson, N. J.
A.B., Univ. of Pa., '26.
- Matuska, Walter Houser.....Pittsburg, Kan.
B.S., Kan. State Teachers Coll., '26.
- McCarroll, Henry Relton.....Walnut Ridge, Ark.
A.B., Ouachita Coll., '27.
- McKinney, James Dallas.....Carlyle, Ill.
A.B., Univ. of Ill., '27.
- Monroe, Robert Francis.....Hamlet, N. C.
B.S., Univ. of N. C., '29.
- Moore, Elizabeth.....St. Louis, Mo.
A.B., Wells Coll., '20.
- Moore, Roy Hardin.....Waynesville, N. C.
B.S., Univ. of N. C., '29.
- Napper, Marvin Lee.....Billings, Mo.
A.B., Drury Coll., '27.
- Newman, Mary Louise.....St. Louis, Mo.
- Newman, Ross Mayberry.....Springfield, Mo.

Ochsner, Clarence George.....	Knowles, Wis.
A.B., Univ. of Wis., '29.	
Olsen, Albert Lamoin.....	Kimberly, Idaho
A.B., Univ. of Utah, '28.	
Overton, James Bertram, Jr.....	Madison, Wis.
A.B., Univ. of Wis., '29.	
Pellegrino, Louis, Jr.....	Bronx, N. Y.
B.S., Univ. of Ala., '29.	
Powers, Louise.....	Paris, Mo.
Ritchey, Walter Wesley.....	Marion, Ill.
B.S., Washington Univ., '27.	
Robertson, Don Deigo Columbus Cook.....	Tipton, Mo.
A.B., Univ. of Mo., '27.	
B.S., Univ. of Mo., '29.	
A.M., Univ. of Mo., '29.	
Rueb, Fred, Jr.....	St. Louis, Mo.
A.B., Univ. of Ill., '26.	
Schindler, John Albert.....	New Glarus, Wis.
B.S., Univ. of Wis., '29.	
M.S., Univ. of Wis., '29.	
Schmidtke, Edwin Calvin.....	Mt. Vernon, Mo.
A.B., Univ. of Mo., '29.	
B.S., Univ. of Mo., '29.	
Scolten, Adrian Herman.....	Madison, Wis.
B.S., Univ. of Wis., '29.	
Scott, Abbott Charles.....	Kankakee, Ill.
B.S., Shurtleff Coll., '26.	
Scott, Henry Field.....	Ashland, Mo.
A.B., Univ. of Mo., '29.	
Sewell, Dan Roy, Jr.....	Jacksboro, Tex.
A.B., Univ. of Tex., '25.	
Simon, Benjamin.....	Los Angeles, Cal.
A.B., Stanford Univ., '25.	
A.M., Stanford Univ., '27.	
Smadel, Joseph Edwin.....	Vincennes, Ind.
A.B., Univ. of Pa., '28.	
Smith, Robert Sydney.....	East St. Louis, Ill.
A.B., Washington Univ., '27.	
Smith, Stanton Gaston.....	Mt. Vernon, Ill.
Squibb, Joseph William.....	Springfield, Mo.
Stauffer, Harry Beach.....	Cottonwood Falls, Kan.
A.B., Univ. of Kan., '25.	
Summers, Jacob Hans.....	Springfield, Mo.
B.S., Drury Coll., '22.	
Sundwall, Peter Val.....	Fairview, Utah
A.B., Univ. of Utah, '28.	
Taussig, Joseph Bondi.....	St. Louis, Mo.
A.B., Harvard Univ., '26.	
Tom, Henry Kee.....	Kapaa, Kaula, Hawaii
Tompkins, Pendleton Souther.....	Lexington, Va.
A.B., Washington and Lee Univ., '27.	
Weinbaum, Martin Morton.....	Cleveland, Ohio
A.B., Western Reserve Univ., '27.	
Wray, Rolla Boyd.....	Elsmore, Kan.
Yamashita, Takeo.....	Honolulu, Hawaii
B.S., Univ. of Hawaii, '27.	

Total, 78

SECOND YEAR CLASS

Adams, William Brown.....	St. Louis, Mo.
Agress, Harry.....	St. Louis, Mo.
Allee, James William.....	Eldon, Mo.
A.B., Univ. of Mo., '28.	
Allen, Benjamin Israel.....	New York, N. Y.
B.S., Coll. of the City of N. Y., '28.	
Amos, J. Roy.....	Oakland, Mo.
A.B., Southwest Mo. State Teachers Coll., '28.	
Beam, Sim Fields.....	Kansas City, Mo.
A.B., Univ. of Mo., '28.	
Blades, Brian Brewer.....	Salina, Kan.
A.B., Univ. of Kan., '28.	
Blake, John Vaughn, Jr.....	Floresville, Tex.
A.B., Vanderbilt Univ., '28.	

Brown, John Richard.....	Bemis, Tenn.
Byars, Louis T., Jr.....	Alma, Ark.
B.S., Univ. of Ark., '28.	
Byland, Samuel James.....	Richmond Heights, Mo.
Carman, Edmund Ralph.....	New Lenox, Ill.
B.S., Purdue Univ., '23.	
Charles, Cecil Marvin.....	Henderson, Ky.
A.B., Univ. of Ky., '26.	
M.A., Univ. of Ky., '27.	
Ph.D., Washington Univ., '29.	
Chase, Walter Edgar.....	St. Louis, Mo.
Clark, Bernard Stearns.....	Lead, S. D.
Comer, Fay Solomon.....	Carlinville, Ill.
Crossman, Robert Wesley.....	St. Louis, Mo.
Daves, William Lawrence.....	Evansville, Ind.
* A.B., Wabash Coll., '28.	
Ehrlich, William.....	Ft. Lauderdale, Fla.
B.S., Coll. of the City of N. Y., '26.	
Freund, Harold Gustav.....	Higginsville, Mo.
A.B., Washington Univ., '24.	
Grow, John Benson.....	Fulton, Mo.
Hamlin, Courtney Norfleet.....	Palmyra, Mo.
Harris, Russell David.....	Sherwood, N. D.
A.B., Coe Coll., '28.	
Inouye, Kiyoshi.....	Honolulu, Hawaii
B.S., Univ. of Hawaii, '29.	
Kane, John Riley.....	East St. Louis, Ill.
A.B., Baylor Univ., '28.	
Kendis, Joe Bernard.....	Sedalia, Mo.
Kling, George William.....	St. Louis, Mo.
A.B., Washington Univ., '28.	
Kloess, Edward John.....	Belleville, Ill.
Lambuth, Robert Wesley.....	Alhambra, Cal.
A.B., Univ. of Cal. at Los Angeles, '28.	
Lefkowitz, Paul Howard.....	Spring Valley, N. Y.
Linton, Clair Starrett.....	St. Louis, Mo.
B.S., Purdue Univ., '19.	
M.S., Iowa State Coll., '23.	
Lorberblatt, Isaac.....	Brooklyn, N. Y.
B.S., Brooklyn Poly. Inst., '25.	
M.A., Columbia Univ., '27.	
Mack, John Keller.....	Marshall, Mo.
B.S., Washington and Jefferson Coll., '28.	
Max, Paul Franklin.....	St. Louis, Mo.
McGulre, Roy Herman.....	Towanda, Ill.
Means, George William.....	St. Louis, Mo.
Meinberg, William Henry.....	St. Louis, Mo.
Moore, Carl Vernon.....	St. Louis, Mo.
A.B., Washington Univ., '28.	
Nutter, Paul Barnes.....	Liberty, Mo.
A.B., William Jewell Coll., '28.	
O'Neill, Joseph Bernard.....	Denver, Colo.
A.B., Univ. of Denver, '27.	
Paton, Donald Munro.....	Henderson, Ky.
A.B., Evansville Coll., '28.	
Pearl, Sydney Samuel.....	Newark, N. J.
A.B., Univ. of Pa., '28.	
Petrone, John Carl.....	Suffern, N. Y.
B.S., Univ. of Notre Dame, '27.	
Platz, John Herschel.....	Brashear, Mo.
Powell, George Merle.....	Las Animas, Colo.
A.B., Colo. Coll., '27.	
Priwer, Charles.....	St. Louis, Mo.
A.B., Washington Univ., '29.	
Rebillot, Joseph Robert.....	Canton, Ohio
A.B., Colo. Coll., '28.	
Richmond, Albert Marion.....	Cottage Grove, Ore.
Scott, Wendell Garrison.....	Boulder, Colo.
A.B., Univ. of Colo., '28.	
Silsby, Don James.....	Springfield, Mo.
Snow, Harold Edgar.....	Dix, Ill.

Staub, John Garfield, Jr.....	Los Angeles, Cal.
A.B., Stanford Univ., '28.	
Steer, Arthur	Brooklyn, N. Y.
A.B., Cornell Univ., '28.	
Stuck, Ralph Marion.....	Jonesboro, Ark.
A.B., Hendrix Coll., '28.	
Sunderman, Raymond Charles.....	St. Louis, Mo.
Taussig, Barrett Learned.....	St. Louis, Mo.
A.B., Harvard Univ., '28.	
Tocker, Albert Montefiore.....	Brooklyn, N. Y.
A.B., Syracuse Univ., '28.	
Trowbridge, Dwight Howe, Jr.....	Fresno, Cal.
van Ravenswaay, Arie Cornelius.....	Boonville, Mo.
Wadlow, Ernest Edward.....	Farmington, Mo.
Wallis, Samuel Rossiter.....	West Asheville, N. C.
B.S., N. C. State Coll., '25.	
Wasserman, Helman Chaim.....	Clinton, Ind.
A.B., Johns Hopkins Univ., '28.	
Weisman, Sol	St. Louis, Mo.
A.B., Washington Univ., '28.	
Wenner, William Franklin.....	Wilkes-Barre, Pa.
A.B., Lebanon Valley Coll., '28.	
Ph.D., Yale Univ., '27.	
White, Frank Stratton.....	Alton, Ill.
B.S., Shurtleff Coll., '27.	
Williams, Harold Murphy.....	Ft. Worth, Tex.
B.S., Tex. Christian Univ., '27.	
Wilson, John Cornell.....	San Jose, Cal.
A.B., Stanford Univ., '28.	
Winn, George Warren.....	Higbee, Mo.
Woodriddle, Alexander Graham.....	Harrisonville, Mo.
A.B., Central Coll., '28.	
Wyle, Irving.....	New York, N. Y.
B.S., N. Y. Univ., '28.	
Yolken, Harry.....	Paterson, N. J.
A.B., Univ. of Pa., '27.	
	Total, 71

FIRST YEAR CLASS

Allen, Henry Cline.....	Alta, Ill.
Baird, Robert Desmond.....	Edwardsville, Ill.
Basham, Francis Claybourne.....	Wichita, Kan.
A.B., Friends Univ., '29.	
Behrens, Frederick Adolph.....	Gillespie, Ill.
Blattner, Russell John.....	St. Louis, Mo.
A.B., Washington Univ., '29.	
Bosse, Frank Krenning.....	St. Louis, Mo.
Boyd, Arthur Montgomery.....	Hillsboro, Ill.
Brownnton, Sheldon Seymour.....	LaGrande, Ore.
B.S., Univ. of Wash., '28.	
Bryan, William Thomas Kimlin.....	St. Louis, Mo.
A.B., Washington Univ., '29.	
Caldemeyer, Everett Samuel.....	Mt. Vernon, Ind.
Calhoun, Alan Duncan.....	St. Louis, Mo.
A.B., Washington Univ., '29.	
Carlson, Edward Franklin.....	Yreka, Cal.
A.B., Stanford Univ., '29.	
Cope, Josef Shelton.....	Lexington, Mo.
Curtis, George Haskel.....	St. Louis, Mo.
A.B., Washington Univ., '29.	
Doane, Clarmont Paul.....	Lorain, Ohio
A.B., Oberlin Coll., '28.	
Dollin, Joseph	Dorchester, Mass.
A.B., Harvard Univ., '29.	
Doyle, Olline Burton.....	Fresno, Cal.
Drake, Truman Guthred, Jr.....	University City, Mo.
A.B., Washington Univ., '29.	
Edwards, Waldo Berry.....	St. Louis, Mo.
A.B., Westminster Coll., '29.	
Eichkorn, Milton Herbert.....	St. Louis, Mo.
Emery, Robert Wilson.....	Hoboken, N. J.
A.B., Oglethorpe Univ., '29.	
Flynn, Charles Henry.....	Webster Groves, Mo.

Fulks, Richard Burkhardt.....	California, Mo.
Goldman, Harry.....	Brooklyn, N. Y.
A.B., Univ. of Ala., '29.	
Good, Clarence Allen, Jr.....	St. Joseph, Mo.
A.B., Williams Coll., '29.	
Grim, George Edward.....	Kirksville, Mo.
Harford, Carl Gayler.....	Webster Groves, Mo.
A.B., Amherst Coll., '28.	
Haslem, John Robert, Jr.....	Terre Haute, Ind.
A.B., Ind. State Teachers Coll., '29.	
Hawkins, Clarence Arthur.....	Decatur, Ill.
A.B., James Milliken Univ., '25.	
Herman, William Wolf.....	Cleveland, Ohio
Holden, Raymond Francis, Jr.....	Ferguson, Mo.
Hope, James Lentz.....	Wichita, Kan.
A.B., Univ. of Wichita, '29.	
Hosto, Leland Erwin.....	St. Louis, Mo.
Hullick, Zola Leona.....	East St. Louis, Ill.
A.B., Univ. of Ill., '29.	
Hurst, Martin Joseph.....	Kansas City, Mo.
Jaudon, Joseph Cabell.....	St. Louis, Mo.
A.B., Washington Univ., '26.	
Johnson, Frank Craig.....	Carroll, Iowa
A.B., Drake Univ., '26.	
Joslyn, Harold Lees.....	Charleston, Mo.
Kippen, Ablon Arnold.....	East Cleveland, Ohio
A.B., Ohio State Univ., '29.	
Kirby, Henry Vance.....	Harrison, Ark.
Knewitz, Ralph Wylde.....	East St. Louis, Ill.
A.B., Washington Univ., '29.	
Liggett, Robert Samuel.....	Virden, Ill.
D.D.S., Washington Univ., '28.	
Lindsay, Julia Hill.....	Webster Groves, Mo.
Loverde, Albert Angelo.....	Chicago, Ill.
B.S., Univ. of Chicago, '28.	
Martin, Christopher Harold.....	St. Louis, Mo.
A.B., William Jewell Coll., '26.	
McIntire, Landon Rolla.....	Mexico, Mo.
Meredith, Clarence Paul.....	Joplin, Mo.
Merker, Philip John.....	East St. Louis, Ill.
Miller, Alvin Ralph.....	Poplar Bluff, Mo.
A.B., Washington Univ., '29.	
Minton, Robert Slater.....	St. Joseph, Mo.
Motchan, Louis Alan.....	Cairo, Ill.
A.B., Washington Univ., '29.	
Oddi, Louis Richard.....	Yatesboro, Pa.
Oder, Charles Patchin.....	Kansas City, Mo.
Pate, John Ralston.....	Charleston, S. C.
A.B., Univ. of S. C., '27.	
A.M., Univ. of S. C., '27.	
Patterson, Donald LeRoy.....	Berkeley, Cal.
Penn, Lloyd Lyttleton.....	Troy, Mo.
A.B., Central Coll., '29.	
Pepple, Allen.....	Fessenden, N. D.
Prouty, Margaret Jo.....	St. Louis, Mo.
A.B., Univ. of Neb., '29.	
Richardson, Lyman King.....	Kansas City, Mo.
A.B., Washington Univ., '29.	
Roufa, Joseph Frederick.....	St. Louis, Mo.
A.B., Washington Univ., '29.	
Sakimoto, Richard Yoshitaka.....	Honolulu, Hawaii
Schacklin, George Arthur.....	St. Louis, Mo.
A.B., Park Coll., '29.	
Seabaugh, Dayton Rusby.....	Jackson, Mo.
Senturia, Hyman R.....	St. Louis, Mo.
A.B., Washington Univ., '29.	
Shapiro, Herman Carl.....	St. Louis, Mo.
Sinclair, Richard Clyde.....	St. Louis, Mo.
Smith, William Russell.....	Benton, Ark.
Staake, Clarence John.....	St. Charles, Mo.
Stuart, Samuel Edwin.....	Lancaster, Tex.

Terry, Robert Todd.....	St. Louis, Mo.
A.B., Yale Univ., '29.	
Timm, Oron Karl.....	Maplewood, Mo.
Tyner, James Robert.....	Alton, Ill.
B.S., Shurtleff Coll., '29.	
Wachter, Harry Ewing.....	Webster Groves, Mo.
A.B., Washington Univ., '29.	
Warren, Wirt Adrien.....	Wichita, Kan.
A.B., Univ. of Wichita, '29.	
Westbrook, Edwin Ruthven.....	Poplar Bluff, Mo.
A.B., Washington Univ., '29.	
Westfall, Marvin Ford.....	Maryville, Mo.
B.S., Northwest Mo. State Teachers Coll., '28.	
Wilson, Lawrence Montford.....	St. Louis, Mo.
Wimp, Jesse John.....	St. Louis, Mo.
B.S., Northeast Mo. State Teachers Coll., '27.	
Wulff, George John L., Jr.....	St. Louis, Mo.
A.B., Washington Univ., '29.	
Zingale, Frank George.....	New York, N. Y.
Zukovich, George Edward.....	Braddock, Pa.
Zurbrugg, Earl Benjamin.....	Alliance, Ohio
B.S., Mount Union Coll., '25.	
	Total, 82

SPECIAL STUDENTS

Whayne, Tom French.....	Clinton, Ky.
A.B., Univ. of Ky., '27.	

SUMMARY OF STUDENTS IN THE SCHOOL OF MEDICINE

Graduate Students	122
Fourth Year Class.....	77
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	<hr/>
	Total, 431

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