1931

Washington University School of Medicine bulletin, 1931

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Mary Institute—A Preparatory School for Girls
(Ladue and Warson Roads, Clayton)
Charles H. Garrison, A.B., Principal
BULLETIN
of
WASHINGTON UNIVERSITY
SAINT LOUIS

FORTY-SECOND ANNUAL
CATALOGUE
OF
THE SCHOOL OF MEDICINE

APRIL 10, 1931

PUBLICATIONS OF WASHINGTON UNIVERSITY
SERIES II    VOLUME XXIX    NUMBER XI

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## CALENDAR
### 1930

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**WASHINGTON UNIVERSITY**

**MEDICAL SCHOOL**
CALENDAR

1930-31

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.


Final Examinations begin Monday, June 1, 1931.

Commencement, Tuesday, June 9, 1931.

1931-32

Registration, Tuesday, September 22, and Wednesday, September 23, 1931.

Examinations for Advanced Standing and Removal of Conditions, Monday, September 21, to Wednesday, September 23, 1931, inclusive.

Academic year (First Trimester) begins Thursday, September 24, 1931.

Holiday, Thanksgiving Day, Thursday, November 26, 1931.

First Trimester ends Saturday, December 12, 1931.

Second Trimester begins Monday, December 14, 1931.

Christmas Recess, Wednesday, December 23, 1931, to Saturday, January 2, 1932, inclusive.

Registration for Second Half-Year, Friday, January 29, and Saturday, January 30, 1932.


Second Trimester ends Saturday, March 12, 1932.

Third Trimester begins Monday, March 14, 1932.

Holiday, Good Friday, March 25, and Saturday, March 26, 1932.

Third Trimester ends Saturday, May 28, 1932.


Final Examinations begin Tuesday, May 31, 1932.

Commencement, Tuesday, June 7, 1932.
THE CORPORATION

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ROBERT SOMERS BROOKINGS

Honorary President
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CHARLES NAGEL

First Vice-President
ROBERT MCKITTRICK JONES

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ALFRED LEE SHAPLEIGH
ROBERT MCKITTRICK JONES
BENJAMIN GRATZ
HARRY BROOKINGS WALLACE
WILLIAM HENRY DANWORTH
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DANIEL NOYES KIRBY
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JOSEPH HENRY ZUMBALEN

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Ex Officio: The President of the Corporation; the Chancellor; the Treasurer; the Dean of the College of Liberal Arts; the Deans of the Schools of Engineering and Architecture, Business and Public Administration, Law, Medicine, Dentistry.
OFFICERS OF GOVERNMENT AND INSTRUCTION

GEORGE REEVES THROOP, Ph.D., LL.D.

Bridge Chancellor of the University
A.B., DePauw University, 1901; A.M., DePauw University, 1903; Ph.D., Cornell University, 1905; LL.D., DePauw University, 1929.

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

W. MCKIM MARRIOTT, M.D. . . . . . . . . . Dean
B.S., University of North Carolina, 1904; M.D., Cornell University, 1910.

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

UNIVERSITY STAFF

JOSEPH ERLANGER, M.D. . . . . . . Professor of Physiology
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 Chemistry
A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904. Chemist to Barnes and St. Louis Children's Hospitals.

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

LEO LOEB, M.D. . . . Edward Mallinckrodt Professor of Pathology
M.D., Zurich, 1896. Pathologist to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals.

W. MCKIM MARRIOTT, M.D. . . . . . . Professor of Pediatrics
B.S., University of North Carolina, 1904; M.D., Cornell University, 1910. Physician in Chief to St. Louis Children's Hospital; Pediatrician in Chief to St. Louis Maternity Hospital and Washington University Dispensary; and Consulting Physician, St. Louis Isolation Hospital.

EVARTS AMBROSE GRAHAM, M.D., LL.D., Sc.D.

Bixby Professor of Surgery
A.B., Princeton University, 1904; M.D., Rush Medical College, 1907; LL.D. (Hon.), Central College, 1926; Sc.D. (Hon.), University of Cin-

1 Arranged in groups in the order of appointment.
THE SCHOOL OF MEDICINE

Herbert Spencer Gasser, M.D. . . . Professor of Pharmacology
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
A.B., Cornell University, 1911, and M.D., 1914; LL.D. (Hon.), Central College, 1929. Physician in Chief to Barnes and St. Louis Maternity Hospitals, and Washington University Dispensary.

Otto Henry Schwarz, M.D. . Professor of Obstetrics and Gynecology
M.D., Washington University, 1913. Obstetrician and Gynecologist in Chief to Barnes and St. Louis Maternity Hospitals and Washington University Dispensary.

Sherwood Moore, M.D. . . . . . . Professor of Radiology
M.D., Washington University, 1905. Roentgenologist to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals.

Harvey James Howard, M.D., Oph.D. . Professor of Ophthalmology
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., 1898. 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.

Edmund Vincent Cowdry, Ph.D.¹ . . . Professor of Cytology
B.A., University of Toronto, 1909; Ph.D., University of Chicago, 1912.

Jacques Jacob Bronfenbrenner, Ph.D., Dr.P.H.
Professor of Bacteriology and Immunology and Consultant in Bacteriology and Immunology in Ophthalmology
Ph.D., Columbia University, 1912; Dr.P.H., Harvard University, 1919.

George Holman Bishop, Ph.D.
Professor of Applied Physiology in Ophthalmology
A.B., University of Michigan, 1912; Ph.D., University of Wisconsin, 1920.

¹ On leave of absence, 1930-31.
CORDIA C. BUNCH, Ph.D.

Professor of Applied Physics in Oto-Laryngology

ROBERT RUSSELL BENSLEY, M.B., Sc.D.¹ Visiting Professor of Cytology
A.B., University of Toronto, 1889; M.B., 1892; Sc.D. (Hon.), 1919.

ARTHUR LEWELYN HUGHES, D.Sc. . . . . Consulting Physicist

LOUIS HERBERT BURLINGHAM, M.D., Lecturer on Hospital Administration
A.B., Yale University, 1902; M.D., Johns Hopkins University, 1906. Superintendent of Barnes Hospital.

JEAN VALJEAN COOKE, M.D. . . . Associate Professor of Pediatrics
A.B., University of West Virginia, 1903, and Yale University, 1904; M.D., Johns Hopkins University, 1908. Associate Physician to St. Louis Children's Hospital; Associate Pediatrician to St. Louis Maternity Hospital; and Chief of Pediatric Clinic, Washington University Dispensary.

CHARLES MERL MICHAEL GRUBER, Ph.D., M.D.

Associate Professor of Pharmacology
A.B., University of Kansas, 1911, and A.M., 1912; Ph.D., Harvard University, 1914; M.D., Washington University, 1921. Physician to Out Patients, Washington University Dispensary.

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

HARRY LOUIS ALEXANDER, M.D. . . Associate Professor of Medicine
A.B., Williams College, 1910; M.D., Columbia University, 1914. Associate Physician to Barnes and St. Louis Maternity Hospitals; Physician to Out Patients, Washington University Dispensary.

ALEXIS FRANK HARTMANN, M.D. . . Associate Professor of Pediatrics
B.S., Washington University, 1919; M.S. and M.D., 1921. Associate Pediatrician to St. Louis Maternity Hospital; Associate Physician to St. Louis Children's Hospital; Physician to Out Patients, Washington University Dispensary.

GLOVER H. COPHER, M.D. . . . . Associate Professor of Surgery
A.B., University of Missouri, 1916; M.D., Washington University, 1918. Assistant Surgeon to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals; Chief of Surgical Clinic, Washington University Dispensary.

¹ October 1, 1930, to February 28, 1931.
Howard Anderson McCordock, M.D.  Associate Professor of Pathology  
B.S., University of Buffalo, 1921; M.D., 1923.  Associate Pathologist to  
St. Louis Children's Hospital.

Charles Weiss, Ph.D., M.D.  
Associate Professor of Applied Bacteriology and Immunology in  
Ophthalmology  
B.S., College of the City of New York, 1915; M.S., New York University,  
1916; Ph.D., University of Pennsylvania, 1918, and M.D., 1924.

William Joseph Dieckmann, M.D.  
Associate Professor of Obstetrics and Gynecology  
B.S., Washington University, 1920; M.D., 1922.  Associate Obstetrician  
and Gynecologist to Barnes and St. Louis Maternity Hospitals; Obst-  
etrician and Gynecologist to Out Patients, Washington University  
Dispensary.

Percy Wells Cobb, M.D.  
Associate Professor of Applied Biophysics in Ophthalmology  
B.S., Case School of Applied Science, 1894; M.D., Western Reserve  
University, 1902.

Edward Staunton West, Ph.D.  
Associate Professor of Biological Chemistry  
A.B., Randolph-Macon College, 1917; M.S., Kansas State Agricultural  
College, 1920; Ph.D., University of Chicago, 1923.

Mildred Trotter, Ph.D.  . . . .  Associate Professor of Anatomy  
A.B., Mount Holyoke College, 1920; M.S., Washington University, 1921;  
Ph.D., 1924.

Arthur Scott Gilson, Jr., Ph.D.  .  Associate Professor of Physiology  
B.S., Dartmouth College, 1919; A.M., Harvard University, 1922, and  
Ph.D., 1924.

James Arthur Hawkins, Ph.D., Sc.D.  
Associate Professor of Applied Biological Chemistry in Ophthal-  
mology  
A.B., Amherst College, 1917; Ph.D., University of Edinburgh, 1922, and  
Sc.D., 1928.

Louis A. Julianelle, Ph.D.  
Associate Professor of Applied Bacteriology and Immunology in  
Ophthalmology  
A.B., Yale University, 1917, and M.S., 1919; Ph.D., University of  
Pennsylvania, 1922.

Frank Henry Ewerhardt, M.D.  
Assistant Professor of Physical Therapeutics  
M.D., Washington University, 1910.  Physician in Charge of Physical  
Therapeutics to Barnes and St. Louis Children's Hospitals; Surgeon to  
Out Patients, Washington University Dispensary.
HAROLD ATEN BULGER, M.D. . . . Assistant Professor of Medicine
B.S., Ohio State University, 1916; M.D., Harvard University, 1920. Assistant Physician to Barnes Hospital; Physician to Out Patients, Washington University Dispensary.

JOHN VINCENT LAWRENCE, M.D. . . Assistant Professor of Medicine
S.B., University of Chicago, 1917; M.D., Rush Medical College, 1924. Assistant Physician to Barnes Hospital; Medical Director and Chief of Medical Clinic, Washington University Dispensary.

ETHEL RONZONI, Ph.D. . . Assistant Professor of Biological Chemistry
B.S., Mills College, 1913; A.M., Columbia University, 1914; Ph.D., University of Wisconsin, 1923.

WARREN HENRY COLE, M.D. . . . Assistant Professor of Surgery
B.S., University of Kansas, 1918; M.D., Washington University, 1920. Assistant Surgeon to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals; Assistant Surgeon to Out Patients, Washington University Dispensary; Visiting Surgeon, St. Louis City Hospital.

GORDON H. SCOTT, Ph.D. . . . Assistant Professor of Cytology
A.B., Southwestern College, 1922; A.M., University of Minnesota, 1925, and Ph.D., 1926.

JAMES LEE O'LEARY, Ph.D. . . . Assistant Professor of Cytology
B.S., University of Chicago, 1925, and Ph.D., 1926.

WALTER JOSEPH SIEBERT, M.D. . . Assistant Professor of Pathology
M.D., Washington University, 1926. Assistant Pathologist to St. Louis Children's Hospital.

GEORGE DEE WILLIAMS, M.D., Ph.D. . Assistant Professor of Anatomy
A.B., Ohio State University, 1919, and M.D., 1922; A.M., Harvard University, 1926, and Ph.D., 1929.

RALPH STEWART MUCKENFUS, M.D. . Assistant Professor of Medicine
B.S., Emory University, 1919, and M.D., 1921. Assistant Physician to Barnes Hospital; Assistant Physician to Out Patients, Washington University Dispensary.

MARGARET GLADYS SMITH, M.D. . . Assistant Professor of Pathology
B.A., Mount Holyoke College, 1918; M.D., Johns Hopkins University, 1922.

ROBERT MORRIS HARDAWAY, JR., M.D., Major Medical Corps, U. S. Army Assistant Professor of Military Science and Tactics
M.D., Washington University, 1910.

WALTER PAGE COVELL, Ph.D. . . . Assistant Professor of Cytology
B.S., Oregon State Agricultural College, 1922; M.S., 1923; Ph.D., University of Minnesota, 1926.
ISAAC Y. OLCH, M.D. . . . . Assistant Professor of Surgery 
Ph.B., Brown University, 1917; M.D., Johns Hopkins University, 1921. 
Assistant Surgeon to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals; Assistant Surgeon to Out Patients, Washington University Dispensary; Visiting Surgeon, St. Louis City Hospital.

ROBERT ELMAN, M.D. . . . . Assistant Professor of Surgery 
B.S., Harvard University, 1919; M.D., Johns Hopkins University, 1922. 
Assistant Surgeon to Barnes Hospital; Visiting Surgeon to St. Louis City Hospital.

PETER HEINBECKER, M.D. . . . . Assistant Professor of Surgery 
B.A., McGill University, 1918; M.D., 1921. Assistant Surgeon to Barnes Hospital; Visiting Surgeon to St. Louis City Hospital.

ALFRED M. LUCAS, Ph.D. 
Assistant Professor of Cytology and of Applied Cytology in Oto-Laryngology 
A.B., Wabash College, 1924; Ph.D., Washington University, 1929.

EVERETT SHOVELTON SANDERSON, Ph.D. 
Assistant Professor of Bacteriology and Immunology and of Public Health 
B.S., Massachusetts Agricultural College, 1916; M.S., Yale University, 1921, and Brown University, 1923; Ph.D., Yale University, 1922.

KENNETH LIVINGSTON BURDON, Ph.D. 
Instructor in Bacteriology and Public Health 
Ph.B., Brown University, 1918; Sc.M., 1920; Ph.D., 1922.

PHILIP LEONARD VARNEN, M.S. 
Instructor in Bacteriology and Public Health 
B.S., Oregon Agricultural College, 1922; M.S., Washington University, 1926.

THOMAS KENNETH BROWN, M.D. 
Instructor in Obstetrics and Gynecology 
B.S., University of Wisconsin, 1921, and M.S., 1922; M.D., Washington University, 1924. Assistant Obstetrician and Gynecologist to Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Out Patients, Washington University Dispensary.

HELEN TREDWAY GRAHAM, Ph.D. . . . Instructor in Pharmacology 
B.A., Bryn Mawr College, 1911, and M.A., 1912; Ph.D., University of Chicago, 1915.

DONALD M. HETLER, Ph.D. 
Instructor in Bacteriology and Immunology and in Public Health 
A.B., University of Kansas, 1918, and A.M., 1923; Ph.D., Yale University, 1926.
MIRIAM SCOTT LUCAS, Ph.D. . . . . . . . Instructor in Cytology  
B.S., University of Pennsylvania, 1924; Ph.D., 1927.

FRANK URBAN, Ph.D. . . . . . . . Instructor in Biological Chemistry  
B.S., University of Wisconsin, 1925; Ph.D., 1928.

LEON BROBERG, M.D.1 . . . . . . . Instructor in Medicine  
B.A., Rice Institute, 1920; M.D., Vanderbilt University, 1925. Assistant Physician to Barnes Hospital; Physician to Out Patients, Washington University Dispensary; Physician to Students, Schools of Medicine and Dentistry.

CHARLES WILLIAM DUDEN, M.D. . . . . . . . Instructor in Medicine  
M.D., Washington University, 1926. Physician to Out Patients, Washington University Dispensary.

ARTHUR WORTH HAM, M.B. . . . . . . . Instructor in Cytology  
M.B., University of Toronto, 1926.

JULIUS JENSEN, Ph.D. . . . . . . . Instructor in Medicine  

GEORGE ARTHUR SEIB, M.D. . . . . . . . Instructor in Anatomy  
A.B., Washington University, 1924, and M.D., 1928.

WILLIAM BARTLET BREBNER, M.B. . . . . . . . Instructor in Cytology  
M.B., University of Toronto, 1926, and B.Sc., 1927.

WILLIAM FRANKLIN WENNER, Ph.D.  
Instructor in Experimental Physiology in Oto-Laryngology  
B.A., Lebanon Valley College, 1923; Ph.D., Yale University, 1927.

IRENE KOECHIG FREIBERG, A.M. . . . Instructor in Biological Chemistry  
A.B., Washington University, 1911; A.M., 1912.

NATHAN ANTHONY WOMACK, M.D. . . . . . . . Instructor in Surgery  
B.S., University of North Carolina, 1922; M.D., Washington University, 1924. Assistant Surgeon to Barnes Hospital; Assistant Surgeon to Out Patients, Washington University Dispensary.

JACOB RABINOVITCH, M.D. . . . . . . . Instructor in Pathology  
B.S., McGill University, 1921; M.D., C.M., 1924.

HARRY CLARENCE BALLON, M.D.C.M. . Instructor in Surgery (Chest)  
M.D.C.M., McGill University, 1923. Voluntary Assistant (Surgery), Barnes Hospital.

1 Resigned, March 1, 1931.
ROBERT MORRIS EVANS, M.D.

Instructor in Medicine and Assistant in Radiology
M.D., Washington University, 1926. Assistant Physician to Out Patients, Washington University Dispensary.

CARL REINARD WEGNER, M.D.  Instructor in Obstetrics and Gynecology
A.B., North Central College, 1922; M.D., University of Nebraska, 1926. Assistant Obstetrician and Gynecologist to St. Louis Maternity Hospital; Assistant Obstetrician and Gynecologist to Out Patients, Washington University Dispensary.

WILLIAM MAHLON JAMES, M.D.  Instructor in Ophthalmology
B.S., Drury College, 1922; M.D., Washington University, 1926. Assistant Ophthalmologist to Barnes and St. Louis Children’s Hospitals.

HUGH MONROE WILSON, M.D.  Instructor in Medicine
A.B., Illinois College, 1924; M.D., Washington University, 1927. Voluntary Assistant (Medicine) to Barnes Hospital.

ROLAND WENDELL HARRISON, Ph.D.

Instructor in Applied Bacteriology and Immunology in Ophthalmology
A.B., Southern Methodist University, 1921; M.S., University of Chicago, 1925, and Ph.D., 1930.

ALFRED J. CONE, M.D.  Instructor in Oto-Laryngology
B.S., State University of Iowa, 1921, M.D., 1923, and M.S., 1926. Assistant Oto-Laryngologist to St. Louis Children’s Hospital; Assistant Surgeon to Out Patients, Washington University Dispensary.

ROSSLEENE ARNOLD HETLER, Ph.D.

Instructor in Applied Biological Chemistry in Ophthalmology
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2 Resigned, January 1, 1931.
3 July 1, 1930, to January 1, 1931.
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2 Effective January 1, 1931.
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BORDEN SMITH VEEDER, M.D.  Professor of Clinical Pediatrics M.D., University of Pennsylvania, 1907. Associate Pediatrician, St. Louis Maternity Hospital; Consulting Physician, St. Louis Children's and Isolation Hospitals.

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2 Effective January 6, 1931.
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\(^1\) Effective February 1, 1931.
\(^2\) Effective February 4, 1931.
\(^3\) Resigned, March 18, 1931.
\(^4\) Effective February 1, 1931.
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JOHN W. ESCHEBRENNER, M.D.
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WILLIAM F. HARDY, M.D.
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GUERDAN HARDY, M.D.

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EDWARD W. GROVE, M.D.
WILMER H. PAINE, M.D.
WILLARD C. SCHIVNER, M.D.

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Assistant Pathologist
WALTER J. STEIBERT, M.D.

Resident Pathologist
GARRETT PIPKIN, M.D.

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Urologist
JOHN R. CAULK, M.D.

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OSCAR C. ZINK, M.D.

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DONALD WHITE, D.D.S.

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VIRGIL LOEB, M.D., D.D.S.

Physicist
CORDIA C. BUNCH, Ph.D.

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ANNE MACGREGOR PERLEY, M.A.

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Gynecologist
HARRY S. CROSSEN, M.D.

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GRANDISON D. ROYSTON, M.D.
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WILLIAM J. DIECKMANN, M.D.
HUGO EHRENFEST, M.D.
FRANK P. McNALLY, M.D.
CHARLES D. O’KEEFFE, M.D.
<table>
<thead>
<tr>
<th>Resident Obstetricians and Gynecologists</th>
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<tbody>
<tr>
<td>Paul R. Rollins, M.D.</td>
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<td>John B. O'Neill, M.D.</td>
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<tr>
<th>Assistant Resident Obstetrician</th>
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<tr>
<td>Samuel D. Soule</td>
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<th>House Officers</th>
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<tr>
<td>Kevin C. Morrin, M.D.</td>
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<td>E. F. Brunning, M.D.</td>
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<td>Carl S. Bickel, M.D.</td>
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<td>Harry A. Briggs, M.D.</td>
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<td>Irving L. Kurzrok, M.D.</td>
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<td>G. Albin Liva, M.D.</td>
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<td>R. Lindsay McArthur, M.D.</td>
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<td>Benford R. Parrish, M.D.</td>
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<th>Pediatrics</th>
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<tr>
<td>Pediatric in Chief</td>
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<tr>
<td>W. McKim Marriott, M.D.</td>
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<th>Associate Pediatricians</th>
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<tr>
<td>Borden S. Veeider, M.D.</td>
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<td>Adrian S. Bleyer, M.D.</td>
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<td>Theodore C. Hempelmann, M.D.</td>
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<td>Jean V. Cooke, M.D.</td>
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<td>Hugh McCulloch, M.D.</td>
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<td>Alexis F. Hartmann, M.D.</td>
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<td>Park J. White, M.D.</td>
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<td>Maurice J. Lonsway, M.D.</td>
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<td>Paul J. Zentay, M.D.</td>
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<th>Resident Pediatrician</th>
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<tr>
<td>Hale T. Shirley, M.D.</td>
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<th>Assistant Resident Pediatricians</th>
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<tr>
<td>Max Deutch, M.D.</td>
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<td>Lawrence Goldman, M.D.</td>
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<td>R. D. Robinson, M.B., B.S.</td>
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<tr>
<th>Medicine</th>
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<tr>
<td>Physician in Chief</td>
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<tr>
<td>David P. Barr, M.D.</td>
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<th>Associate Physicians</th>
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<tr>
<td>Harry L. Alexander, M.D.</td>
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<td>Elsworth S. Smith, M.D.</td>
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<td>Albert E. Taussig, M.D.</td>
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<td>Warren P. Elmer, M.D.</td>
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<td>Walter Fischel, M.D.</td>
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<td>William H. Olmsted, M.D.</td>
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<td>Jacob J. Singer, M.D.</td>
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<td>Drew W. Lutten, M.D.</td>
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<td>Joseph W. Larimore, M.D.</td>
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<tr>
<td>Surgeon in Chief</td>
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<tr>
<td>Evarts A. Graham, M.D.</td>
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<th>Associate Surgeons</th>
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<tr>
<td>Ernest Sachs, M.D.</td>
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<td>John R. Caulk, M.D.</td>
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<td>Vilray P. Blair, M.D.</td>
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<td>Malvern B. Clopton, M.D.</td>
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<tr>
<td>J. Archer O'Reilly, M.D.</td>
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<tr>
<td>Arthur O. Fisher, M.D.</td>
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<td>Charles A. Stone, M.D.</td>
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<td>J. Albert Key, M.D.</td>
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<td>Glover H. Copher, M.D.</td>
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<td>Duff S. Allen, M.D.</td>
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<td>Dalton K. Rose, M.D.</td>
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<td>Warren H. Cole, M.D.</td>
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<td>Isaac Y. Olch, M.D.</td>
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<td>Harry G. Greditzer, M.D.</td>
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<td>J. Edgar Stewart, M. D.</td>
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<th>Special Departments</th>
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<tr>
<th>Pathologist</th>
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<tr>
<td>Leo Loeb, M.D.</td>
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</table>
Resident Pathologist
GARRETT PIPKIN, M.D.

Oto-Laryngologist in Chief
LEE W. DEAN, M.D.

Assistant Oto-Laryngologists
HARRY W. LYMAN, M.D.
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Chief of Night Clinic
LEON BROMBERG, M.D.

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ADOLPH H. CONRAD, M.D.

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MEYER WIEHER, M.D.
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LAWRENCE POST, M.D.
M. HAYWARD POST, M.D.

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BENNETT Y. ALVIS, M.D.
AMALIE M. NAPIER, M.D.

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CARL C. BEISBARTH, M.D.
JOSEPH S. WALDMAN, M.D.
HOWARD C. KNAPP, M.D.

OTO-LARYNGOLOGY

Oto-Laryngologist in Chief
and Chief of Clinic
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Associate Chiefs of Clinic
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MILLARD F. ARBUCKLE, M.D.
ARTHUR W. PROETZ, M.D.
ARTHUR M. ALDEN, M.D.

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GEORGE E. HOURN, M.D.
ISAAC D. KELLEY, Jr., M.D.

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JAMES B. COSTEN, M.D.
HARRY N. GLICK, M.D.
THOMAS P. LAWTON, M.D.
BERNARD J. McMAHON, M.D.
LOUIS E. FREIMUTH, M.D.
HELEN GAGE, M.D.
ALFRED J. CONE, M.D.
HECTOR M. JANSE, M.D.
ALLEN B. POTTER, M.D.
GEORGE C. SAUNDERS, M.D.
LOUIS J. BIRSNER, M.D.
JACK V. TREYNOR, M.D.
WILLIAM W. FORD, M.D.
SAMUEL Z. FABER, M.D.
GEORGE C. SAUNDERS, M.D.
LILBURN C. BOEMER, M.D.

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Medicine
OLIVER H. CAMPBELL, M.D.
LIONEL S. LUTON, M.D.
CHARLES E. GILLILAND, M.D.

Surgery
DUFF S. ALLEN, M.D.
WILLIAM H. COLE, M.D.
ROLAND M. KLEEME, M.D.

1 Appointed by the City upon nomination by the University.
I. Y. Olch, M.D.
Robert Elman, M.D.
Peter Heinbecker, M.D.

Obstetrics
E. Lee Dorsett, M.D.
Adolph G. Schlossstein, M.D.

Pediatrics
Adrien Bleyer, M.D.
Theodore C. Hempelmann, M.D.
Maurice J. Lonsway, M.D.

Neurology
Andrew B. Jones, M.D.

Dermatology
Richard S. Weiss, M.D.
Adolph H. Conrad, M.D.

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Fred J. Taussig, M.D.
Raymond M. Spivy, M.D.
John R. Vaughan, M.D.
Eugene A. Vogel, M.D.

Ophthalmology
M. Hayward Post, M.D.
Frederick O. Schwartz, M.D.
Bennett Y. Alvis, M.D.

Laryngology and Otology
Harry N. Glick, M.D.
Arthur M. Alden, M.D.

Bronchoscopy
Millard F. Arbuckle, M.D.
Arthur W. Proetz, M.D.
Bernard J. McMahon, M.D.

Orthopedic Surgery
J. Edgar Stewart, M.D.
Theodore P. Brookes, M.D.
J. Albert Key, M.D.

Genito-Urinary Surgery
H. McClure Young, M.D.
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ISOLATION HOSPITAL

Consultants in Medicine
W. McKim Marriott, M.D.
Borden S. Veeder, M.D.

Consultants in Oto-Laryngology
Millard F. Arbuckle, M.D.
French K. Hansel, M.D.

Consulting Physician
Sidney I. Schwab, M.D.

Consulting Surgeon
Ernest Sachs, M.D.
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DEGREES CONFERRED

The degree of Doctor of Medicine was conferred upon the following, June 10, 1930:

Abrams, Hymen Seelig ............................................ St. Louis, Mo.
Allen, Horace Edward .............................................. Butler, Mo.
Alsup, William Edes .............................................. Honolulu, Hawaii
A.B., Univ. of Neb., '26.
Bankhead, Henry Miller ............................................. Clarksville, Mo.
B.S., Univ. of Mo., '25.
Bailey, George Newton .............................................. Picher, Okla.
A.B., Univ. of Mo., '25.
Fauer, Louis ..................................................................... St. Louis, Mo.
B.S., Washington Univ., '28.
Blemmer, Russell Melvin .............................................. Huntingburg, Ind.
Itoal, Robert Weston ................................................. St. Louis, Mo.
B.S., Washington Univ., '28.
Bowman, Harold Samuel .............................................. Greenfield, Ill.
Boyes, Joe Merritt .................................................. Whittington, Ill.
Brennecke, Marvin Amos .............................................. Jackson, Mo.
A.B., 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.
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., '23.
Corson, Wesley Connelly ............................................. Springfield, Ill.
Cotton, Thehma Ann ................................................ Van Buren, Mo.
A.B., Baker Univ., '25.
DeMotte, John Allan ................................................ Maryville, Mo.
A.B., Northwest Mo. State Teachers Coll., '25.
DeMotte, Mary Alice Townsend ..................................... Phillipsburg, Kan.
Dille, Roy Charles .................................................... College of Emporia, '25.
Dier, 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.
Elliott, William Howell (Cum Laude) .......................... Browning, Mo.
B.S., Univ. of Mo., '28.
Finley, Theodore Longworth ...................................... St. Louis, Mo.
B.S., Washington Univ., '28.
Fish, Virgil Otto ....................................................... Fillmore, Ill.
Friend, LeRoy Frank ................................................ Edmonds, Wash.
B.S., Univ. of Wash., '26.
Gaas, Herbert Hermann ............................................. Ralpur, C. P., India
B.S., Washington Univ., '28.
Gates, Cleo Russell ................................................... St. Louis, Mo.
B.S., Univ. of Mo., '28.
Gitt, Joe ........................................................................ St. Louis, Mo.
Glimak, John Larson ................................................... Evanston, Ill.
Goldman, Hymen Joseph ............................................. St. Louis, Mo.
Washington Univ., '28.
Hand, Orva Robert ..................................................... Minneapolis, Minn.
B.S., Univ. of Wis., '28.
Harris, Bettie Ullman ................................................ St. Louis, Mo.
Harrison, Stanley Leonard (Cum Laude) ....................... 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 (Cum Laude) ............. Webster Groves, Mo.
B.S., Washington Univ., '28.

Langmack, Robert Sylvan ........................................ Lebanon, Ore.
A.B., Univ. of Mo., '28.

Lawson, Dwight ................................................... Alba, Mo.
A.B., Univ. of Mo., '28.

Liebolt, Frederick Lee ........................................... Fayetteville, Ark.
A.B., Univ. of Ark., '25.

Livingston, Lawrence Gordon .................................. St. Louis, Mo.

Margolin, Ellis Soman ............................................ St. Louis, Mo.

Martin, Norvil Alexander ....................................... University City, Mo.

Mayfield, George Conrad ....................................... St. Louis, Mo.

McCleave, Thomas Crooke, Jr. .......................... Berkeley, Cal.

McElroy, James Lawrence ......................................... Marshall, N. C.
B. S., Univ. of N. C., '28.

Meyer, George Edwin ............................................ University City, Mo.

Newmark, Isaac 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.

Pipkin, Francis Garrett ......................................... Kansas City, Mo.
B.S., Washington Univ., '28.

Pittman, James Edward .......................................... St. Louis, Mo.

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 (Cum Laude) ............... 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.

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 ........................................ Pittsburgh, Ill.

Werling, Edmund Henry ......................................... Winfield, Kan.

Werner, Harold Theodore ..................................... St. Charles, Mo.
B.S., Washington Univ., '28.

B.S., Univ. of Wis., '23.

Total, 78
GILL PRIZE IN PEDIATRICS
Donald Tillinghast Chamberlin, A.B.

GILL PRIZE IN ANATOMY
Julia Hill Lindsay.
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 cooperation of the Medical Faculty, reorganized the School in all departments and appointed heads of departments and instructors in anatomy, physiology, biological chemistry, pathology, medicine, surgery, and pediatrics, who devote themselves to teaching and research, and associated with this staff clinical instructors chosen from the medical profession of St. Louis.

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 Edward Mallinckrodt Institute of Radiology. The McMillan Eye, Ear, Nose, and Throat Hospital, the Oscar Johnson Institute, and the Edward Mallinckrodt Institute of Radiology are owned by the University. The Barnes Hospital, the St. Louis Children's Hospital, and the St. Louis Maternity Hospital 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. The hospitals permit the School of Medicine to use their wards for teaching and investigation.

The Edward Mallinckrodt Institute of Radiology was completed during the year 1931. This Institute provides the radiological service for the hospitals of the University group and contains 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 was completed during the year 1931.

In 1919 the Department of Pharmacology was organized; in 1924 the Department of Bacteriology and Immunology; in 1927 the Department of Obstetrics and the Department of Ophthalmology were placed on a full-time basis; and in 1928 the Department of Oto-Laryngology was reorganized on a full-time basis. The Edward Mallinckrodt Institute of Radiology accommodates 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, 1,546.

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 Edward Mallinckrodt Institute of Radiology.

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 Kings-highway 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 1931, 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 1930, 6,314 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 1930, 2,952 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 Kingshighway Boulevard and Euclid Avenue, facing Forest Park, between
the Barnes and McMillan Hospitals. The Hospital has accommodations for 104 women and an equal number of newly born babies. Thirty 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 1930, 1,873 cases were admitted to the St. Louis Maternity Hospital.

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

Construction of the McMillan Hospital and the Oscar Johnson Institute was completed during 1931. The Hospital and Research Institute are housed in a single eleven-story building which is owned by Washington University. The Hospital has 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 Kingshighway 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 1930 there were 119,445 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 cooperation, it is also possible for the University to render a distinct service to the community and to the sick poor. The number of beds made available by this arrangement is approximately 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, 1930) 45,259 bound volumes and receives 496 of the most important medical periodicals, selected with reference to the needs of students and investigators. Of these 422 are in complete series. Including obsolete journals, there are 702 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: Leonicenus, Libellus Epidemia, Venice 1497, Mesue, Opera, Venice 1491, Gordon, Lilium 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 hand-ball 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 3½ 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 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 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 basketball 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, basketball, 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 a 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. Applicants will be required to take the aptitude test of the Association of American Medical Colleges, except where specifically excused by the school. An applicant acceptable to the faculty is required to make a deposit of fifty dollars, which shall be in the hands of the Registrar within 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 French, 15 of Chemistry (including elementary quantitative analysis and 4 in organic), 8 of General Physics and 8 of Zoology.

2. 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.

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.

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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.

**Zoology.** Courses in general zoology, 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 bac-
teriology 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. Applications 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 satis-
factorily 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. 109 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 subjects, 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 1 and are for one year. For 1930-31, these services are as follows:

Barnes Hospital—
- Medical Service, six positions.
- Surgical Service, seven positions.
- Oto-Laryngological Service, two positions.
- Ophthalmological Service, three positions.
McMillan Hospital—
   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 1 and three for January 1.

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 ASSISTANTS,
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 contributions 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 are 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 **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 **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 **La Verne Noyes Scholarships.** The Trustees of the estate of La Verne 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, 1931-32, is scheduled for Tuesday, September 22, and Wednesday, September 23, 1931; for the second half year, Friday, January 29, and Saturday, January 30, 1932. 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 $10.00 a year, payable in two installments, is charged to students in the School of Medicine who do not possess a Bachelor's degree. Students who have a Bachelor's degree are exempt from payment of the fee but are given the privilege of paying the usual $10.00 student activities fee or a $7.00 fee to cover merely admission to athletic events.

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. It is suggested that students purchase microscopes and other supplies at the school book store.

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.

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$400.00</td>
</tr>
<tr>
<td>Breakage Deposit</td>
<td>10.00</td>
</tr>
<tr>
<td>Matriculation Fee (payable once)</td>
<td>5.00</td>
</tr>
<tr>
<td>Health Service Fee</td>
<td>2.00</td>
</tr>
<tr>
<td>Books</td>
<td>$50.00 to $100.00</td>
</tr>
<tr>
<td>Room and Board (from $10.00 to $15.00 a week)</td>
<td>350.00 to 500.00</td>
</tr>
</tbody>
</table>

Total, excluding clothes and incidentals . . . $817.00 to $1,017.00
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 of elective courses, see page 123.

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, 1930-31

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
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<tr>
<td>SUBJECT</td>
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<tr>
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<td><strong>Total, excluding M. S. &amp; T.</strong></td>
<td><strong>1024</strong></td>
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<td>Pharmacology</td>
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<tr>
<td>Medicine</td>
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<td>Surgery</td>
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<td>Applied Anatomy</td>
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<td>Medicine</td>
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<td>Neurology</td>
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<td>Surgery</td>
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<tr>
<td><strong>Total, excluding M. S. &amp; T.</strong></td>
<td><strong>1137</strong></td>
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*In addition, each student is required to attend twelve deliveries.*
COURSES OF INSTRUCTION

ANATOMY

Robert J. Terry, M.D. .......... Professor of Anatomy
Edmund V. Cowdry, Ph.D. 2 .......... Professor of Cytology
Robert R. Bensley, M.B. 4 .......... Visiting Professor of Cytology
Mildred Trotter, Ph.D. .......... Associate 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
Walter P. Covell, Ph.D. .......... Assistant Professor of Cytology
Alfred M. Lucas, Ph.D. .......... Assistant Professor of Cytology
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

Edward V. Mastin, M.D. .......... Instructor in Anatomy
Leith H. Slocumb, M.D. .......... Instructor in Anatomy

FELLOW

Gottwald C. Hirsch, Dr. M. Nat. 4 .......... 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)

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

1 The names before the break in the column are those of the full-time staff.
2 On leave of absence, 1930-31.
3 October 1, 1930, to February 28, 1931.
4 July 1, 1930, to January 3, 1931.
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.** Associate Professor of Biological Chemistry  
**Ethel Ronzoni, Ph.D.** Assistant Professor of Biological Chemistry  
**Frank Urban, Ph.D.** Instructor in Biological Chemistry  
**Irene Kochig Freiberg, A.M.** Instructor in Biological Chemistry  
**William B. Wendel, B.S.** Assistant in Biological Chemistry  
**Ellen Ehrenfest, M.S.** Student Assistant in Biological Chemistry  
**George H. Curtis, A.B.** Student Assistant in Biological Chemistry  
**Raymond F. Holden** Student Assistant in Biological Chemistry  
**Oreon K. Timm** Student Assistant in Biological Chemistry

#### FIRST YEAR

3. **Biological Chemistry.** A systematic course of lectures, recitations, conferences, and laboratory work covering those portions of the subject which are of the greatest importance to the student of medicine. The laboratory work includes detailed study of the chemistry of fats, carbohydrates, and proteins; the 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, Mr. Wendel)

#### ELECTIVE COURSES

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

   (4b) *The Electron Theory of Valence.* Applications to substances of biochemical interest.  
       (Associate Professor E. S. West)  
   (4c) *Respiratory Metabolism.*  
       (Assistant Professor Ronzoni)  
   (4d) *Physical Chemistry, as applied to biology.*  
       (Dr. Frank Urban)

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

**PHYSIOLOGY**

JOSEPH ERLANGER, M.D. . . . . . . Professor of Physiology
H. LESTER WHITE, M.D. . . . . Associate Professor of Physiology
ARTHUR S. GILSON, JR., Ph.D. . . . Associate Professor of Physiology
EDGAR A. BLAIR, M.S. . . . . . . Assistant in Physiology
HUBERT B. PRUGNET, M.D. . . . . Assistant in Physiology

**FIRST AND SECOND YEARS**

2. **Physiology. Lectures.** This course is designed especially to meet the needs of students of medicine, but is open to properly prepared 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 White, Professor Gilson, and Assistants)

**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 White, Professor Gilson and Assistants)

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

EVERETT S. SANDERSON, Ph.D.
Assistant 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

PHYLLIS M. NELSON, B.A. . Assistant in Bacteriology and Immunology

MARY LOUISE NEWMAN, Student Assistant in Bacteriology and Immunology

KENNETH L. BURDON, Ph.D. . Assistant in Bacteriology and Immunology

ISAAC LORBERBLATT . Student Assistant in Bacteriology and Immunology

FELLOWS

I. ORVAL EAGLE, M.S. . Research Fellow in Bacteriology and Immunology

HIROMU TSUCHIYA, Sc.D., Research Fellow in Bacteriology and Immunology

J.RALPH WELLS, M.S. . Research Fellow 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

Everett S. Sanderson, Ph.D. . . . Assistant Professor of Public Health
Kenneth L. Burdon, Ph.D., Instructor in Bacteriology and Immunology
Philip L. Varney, M.S. . . . . . . Instructor in Public Health
Donald Hetler, Ph.D. . . . . . . Instructor in Public Health
Adrien Bleyer, M.D. . . . . . . Lecturer in Public Health
Harry M. Miller, Jr., Ph.D. . . . Lecturer in Public Health
Charles H. Philpott, Ph.D. . . . Lecturer in Public Health

FELLOWS

Hiromu Tsuchiya, Sc.D. . . . . Research Fellow in Public Health
J. Ralph Wells, M.S. . . . . . . Research Fellow in Public Health

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. McCORDUCK, M.D. ... Associate Professor of Pathology
WALTER J. SEIBERT, M.D. ... Assistant Professor of Pathology
MARGARET G. SMITH, M.D. ... Assistant Professor of Pathology
JACOB RABINOVITCH, M.D. ... Instructor in Pathology
HILDA FRIEDMAN, M.S. ... Assistant in Pathology
FRANCIS G. PIPKIN, M.D. ... Assistant in Pathology
ELISS S. MARGOLIN, M.D. ... Assistant in Pathology
THOMAS C. MCCLEAVE, M.D. ... Assistant in Pathology
MARSHALL G. SEIBEL, M.D. ... Assistant in Pathology
ERIC W. THURSTON, M.D. ... Assistant in Pathology
WILLIAM M. CRAWFORD, B.S. ... 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

1 July 1, 1930, to January 1, 1931.
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 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
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 MEDICINE

(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. EWERTHARDT, M.D., Assistant Professor of Physical Therapeutics

1 The names before the break in the column are those of the full-time staff.
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
LEON BROMBERG, M.D. 1 .................. Instructor in Medicine
CHARLES W. DUDEN, M.D. .................. Instructor in Medicine
JULIUS JENSEN, M.R.C.S. .................. Instructor in Medicine
ROBERT M. EVANS, M.D. .................. Instructor in Medicine
HUGH M. WILSON, M.D. .................. Instructor in Medicine
LOUIS AITKEN, M.D. .................. Assistant in Medicine
FINDLAY J. FORD, M.D. .................. Assistant in Medicine
WILLIS K. WEAVER .................. Chemist in Medicine
LE ROI DUGGAN, M.D. .................. Assistant in Medicine
ABIGAIL E. SMITH, M.D. .................. Assistant in Medicine
FREDERICK SCHARLES, M.D. 2 .......... Assistant in Medicine
ROBERT B. BASSETT, A.B. .................. Student Assistant in Medicine
EDWARD W. CANNADY, A.B. .............. Student Assistant in Medicine
CALVIN S. DRAZER, B.S. .............. Student Assistant in Medicine
KARL F. KOENIG, B.S. .............. Student Assistant in 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. LAMBRECHT, M.D. ........ Assistant Professor of Clinical Medicine
LAWRENCE D. THOMPSON, M.D. ........ Assistant Professor of Clinical Medicine
WALTER BARMGARTEN, M.D. ............. Instructor in Clinical Medicine
JEROME E. COOK, M.D. .................. Instructor in Clinical Medicine
LEWELYN SALE, M.D. .................. Instructor in Clinical Medicine
LOUIS H. HEMPELMANN, M.D. .......... Instructor in Clinical Medicine
WALTER FISCHER, M.D. .................. Instructor in Clinical Medicine
FRANK D. GORHAM, M.D. .............. Instructor in Clinical Medicine
CHARLES H. EYERMAN, 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. LUGGETT, M.D. ............. Instructor in Clinical Medicine
JOSSEPH F. BREDECK, M.D. ........ Instructor in Clinical Medicine
RALEIGH K. ANDREWS, M.D. .......... Instructor in Clinical Medicine
ANTHONY B. DAY, M.D. .............. Instructor in Clinical Medicine
MILLO L. HEIDEMAN, M.D. ........ Instructor in Clinical Medicine

1 Resigned, March 1, 1931.
2 Effective January 1, 1931.
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. Wilson, Dr. Aitken, Dr. Glassberg)

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, faces and puncture fluids. Material is obtained from 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, Dr. Bredeick, Dr. Stroud, Dr. Glassberg)

THIRD YEAR

6. MEDICINE. One-third of the junior class is assigned to the Department of Medicine during each trimester. This group is subdivided into three parts, two of which are assigned to the wards of Barnes Hospital where they are given practice and instruction in history taking, physical examination and elementary diagnosis. There is also special instruction in metabolic diseases one day each week in cardiology and in infectious diseases at the City Isolation Hospital. The third part of the group is assigned to the Dispensary where the students take an active part, under strict supervision, in the laboratory work of the clinics. Rotation is arranged so that each student has experience in all services. Two hours five days a week for one trimester. 110 hours.

(Professor Barr, Professor Alexander, Professor Bulger, Professor Luten, Professor Muckenfuss, Dr. Jensen and Dr. Heideman)

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 textbook 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, Dr. Goldman)

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

FOURTH YEAR

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

(a) One-third of the senior class is assigned to the Department of Medicine during each trimester. This group is subdivided into three parts, one of which is assigned to the wards in Barnes Hospital and two are assigned to the Dispensary. Rotation is arranged so that each student has experience in all services.

The students in the dispensary act as physicians under the supervision of consultants who review with them the cases which they have investigated. The work is so arranged that each student will serve in the clinic
for general medicine and in at least one medical specialty. Attendance is required of the dispensary groups during the entire morning six days a week; afternoons are free for electives. The students assigned to the Ward act as clinical clerks with the exception of the noon clinics, their entire day is spent in the wards and their duties differ little from those of Junior internes. They are assigned cases for complete work-up and study. Their patients are examined in ward rounds. The work of the section is criticised and methods of diagnosis and treatment are discussed and special reading is assigned. The specimens from autopsied patients are studied with reference to clinical history and the gross and microscopic anatomy. Each student in this course is required to present one term paper complete and ready for publication, if so desired, upon a subject selected by himself. 231 hours. (Professor Barr 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. Therapy of the conditions presented is particularly emphasized. 33 hours. (Professor Smith, Professor Olmsted, Professor Singer, Professor Luten, 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. . . . Assistant Professor of Clinical Neurology
Archie D. Carr, M.D. . . . . . Instructor in Clinical Neurology
Paul E. Kubitschek, M.D. . . . Instructor in Neuropsychiatry
J. William Beckmann, M.D. . . . Instructor in Clinical Neurology
James Lewald, M.D. . . . . . Assistant in Clinical Psychiatry
Lee D. Cady, M.D. . . . . . Assistant in Clinical Neurology
Barbara S. Kendall, Ed.M. . . . . . Assistant in Applied Psychology in Neurology

THIRD YEAR

1. Neurology.
(a) Introductory course in neurology and psychiatry, lectures, and demonstrations in clinical anatomy and physiology of the nervous system. Methods of neurological examination, history taking, study of case histories, etc. One hour a week, 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, psychiatrist, and mental deficiency clinics. Diagnosis and treatment of neuro-psychiatric conditions are studied. Two hours a week for one trimester. 22 hours. (Professor Schwab, Professor Jones, Dr. Carr, Dr. Kubitschek)

FOURTH YEAR

(a) Neurological ward rounds with the medical group. Neurological and such psychiatrist 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
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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 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*

Daniel J. Kooyman, M.A.

Instructor in Applied Chemistry in 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
Clinton W. Lane, M.D. . . . Assistant in Clinical 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. Sixteen hours a week for one-third trimester. 54 hours. Other hours by arrangement. (Professor Engman, Professor Mook, Professor Weiss, Dr. Conrad, Dr. Coleman)

THE MARY CULVER DEPARTMENT OF SURGERY*

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

Evarts A. Graham, M.D. . . . . Bizby Professor of Surgery
Glover H. Copher, M.D. . . . . Associate Professor of Surgery
Warren H. Cole, M.D. . . . . Assistant Professor of Surgery
Isaac Y. Olch, M.D. . . . . Assistant Professor of Surgery
Robert Elman, M.D. . . . . Assistant Professor of Surgery
Peter Heinbecker, M.D. . . . Assistant Professor of Surgery

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

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<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Nathan A. Womack, M.D.</td>
<td>Instructor in Surgery</td>
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<tr>
<td>Harry C. Ballon, M.D., C.M.</td>
<td>Instructor in Surgery (Chest)</td>
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<tr>
<td>Franklin E. Walton, M.D.</td>
<td>Assistant in Surgery</td>
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<td>Parker C. Hardin, M.D.</td>
<td>Assistant in Surgery</td>
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<td>Robert M. Moore, M.D.</td>
<td>Assistant in Surgery</td>
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<td>James C. Sandison, M.D.</td>
<td>Assistant in Surgery</td>
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<td>Harry Wilkins, M.D.</td>
<td>Assistant in Surgery</td>
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<td>Kenneth R. Bell, M.D.</td>
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<td>Roland F. Mueller, M.D.</td>
<td>Assistant in Surgery</td>
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<td>Avery P. Rowlette, M.D.</td>
<td>Assistant in Surgery</td>
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<tr>
<td>Orville R. Clark, B.S.</td>
<td>Student Assistant in Surgery</td>
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<tr>
<td>William W. Greene, A.B.</td>
<td>Student Assistant in Surgery</td>
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<tr>
<td>Don D. C. Robertson, A.M.</td>
<td>Student Assistant in Surgery</td>
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</table>

Ernest Sachs, M.D.       Professor of Clinical Neurological Surgery
Major G. Seelig, M.D.    Professor of Clinical Surgery
Leroy C. Abbott, M.D.*   Professor of Clinical Orthopedic Surgery
John R. Caulk, M.D.      Professor of Clinical Genito-Urinary Surgery
Vilray P. Blair, M.D.    Professor of Clinical Surgery
Malvern B. Clopton, M.D. Professor of Clinical Surgery
J. Archer O'Reilly, M.D.  Associate Professor of Clinical Surgery
William Bartlett, M.D.   Assistant Professor of Clinical Surgery
Arthur O. Fisher, M.D.   Assistant Professor of Clinical Surgery
Charles A. Stone, M.D.   Assistant Professor of Clinical Orthopedic Surgery

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
J. Barrett Brown, M.D.   Instructor in Clinical Surgery
Roland M. Klemme, M.D.   Instructor in Clinical Neurological Surgery
William M. Robertson, M.D. Assistant in Clinical Genito-Urinary Surgery

Jacob G. Probstain, M.D.  Assistant in Clinical Surgery
V. Rogers Deakin, M.D.    Assistant in Clinical Surgery
William G. Hamm, M.D.     Assistant in Clinical Surgery
J. Hoy Sanford, M.D.      Assistant in Clinical Genito-Urinary Surgery

* Resigned, September 1, 1930.
* Resigned, December 3, 1930.
OTTO J. WILHELM, M.D.    Assistant in Clinical Genito-Urinary Surgery
NEWTON W. AMOS, M.D.    Assistant in Clinical Genito-Urinary Surgery
HENRY SPENCE BROOKES, Jr.    Assistant in Clinical Surgery
ROLAND W. STUEBNER, M.D.    Assistant in Clinical Surgery
EDWARD L. KEYES, JR., M.D.1    Assistant in Clinical Surgery

FELLOWS

SAMUEL BOON-ITT, M.D.    Fellow in Surgery
RUSSELL C. BROCK, M.B., B.S.    Fellow in Surgery
CHARLES R. RAYBURN, M.D.    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. (Professor 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 textbook is followed, and so far as possible the essentials not given in other courses are covered. 22 hours. (Professor Cole, Professor 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. (Dr. Rainey and Assistants)

1 Effective February 4, 1931.
(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. (Professor 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 anaesthetic, 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 O'Reilly, Professor Key)
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 Operating 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)

9. Neurological Surgery. Eleven lectures in the first trimester of the fourth year. The lectures comprise a review of the anatomy and physiology of the nervous system as applied to neuro-surgery and a discussion of the principal conditions encountered in neurological surgery. (Professor Sachs, Dr. Klemme)

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.

RADIOLOGY

SHERWOOD MOORE, M.D. . . . . . . . . . . . . . Professor of Radiology
ARTHUR L. HUGHES, D.Sc. . . . . . . . . . . . Consulting Physicist
LEANDER A. MALONE, M.D. 2 . . . . . . . . . Assistant in Radiology
JAMES E. PITTMAN, M.D. 3 . . . . . . . . . . . Assistant in Radiology
ROBERT M. EVANS, M.D. 4 . . . . . . . . . . . Assistant in Radiology

OSCAR C. ZINK, M.D. . . . . . . . . . Assistant in Clinical Radiology

ELECTIVE COURSE

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

1 The names before the break in the column are those of the full-time staff.
2 Resigned, January 31, 1931.
3 July 1, 1930, to January 1, 1931.
4 Resigned, January 1, 1931.
OPHTHALMOLOGY

Harvey J. Howard, M.D., Oph.D.  .  .  .  Professor of Ophthalmology
Jacques J. Bronfenbrenner, Ph.D., Dr.P.H.
Consultant in Bacteriology and Immunology

George H. Bishop, Ph.D.
Professor of Applied Physiology in 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 Bio-Physics in Ophthalmology

James A. Hawkins, Ph.D., Sc.D.
Associate Professor of Applied Biological Chemistry in Ophthalmology

Louis A. Julianelle, Ph.D.
Associate Professor of Applied Bacteriology and Immunology in Ophthalmology

Harvey D. Lamb, M.D.  .  .  .  Assistant Professor of Ophthalmic Pathology
William M. James, M.D.  .  .  .  .  .  Instructor in Ophthalmology
R. Wendell Harrison, Ph.D.
Instructor in Applied Bacteriology and Immunology in Ophthalmology
Rossleene Arnold Hetler, Ph.D.
Instructor in Applied Biological Chemistry in Ophthalmology

Marion C. Morris, A.B.
Assistant in Applied Bacteriology and Immunology in Ophthalmology
Garvey B. Bowers, A.M.
Assistant in Applied Bacteriology and Immunology in Ophthalmology
Howard R. Hildreth, M.D.  .  .  .  .  .  Assistant in Ophthalmology

William E. Shahar, 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
Lawrence T. Post, M.D., Associate Professor of Clinical Ophthalmology
Frederick E. Woodruff, 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 Ophthalmology
Grover H. Poos, M.D.  .  .  .  .  .  .  Instructor in Clinical Ophthalmology
J. W. Charles, M.D.  .  .  .  .  .  .  .  .  .  .  .  Lecturer in Ophthalmology
J. Ellis Jennings, M.D.  .  .  .  .  .  .  .  .  .  .  .  Lecturer in Ophthalmology
Charles W. Tooker, M.D.  .  .  .  .  .  .  .  .  .  .  .  Lecturer in Ophthalmology

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

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

FOURTH YEAR

2. **OPHTHALMOSCOPY.** 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. Ten hours a week for one-third trimester. 34 hours. (Professor Hardy, Professor Lawrence Post, Professor Jacobs, Professor Schwartz, Dr. Alvis)

**OTO-LARYNGOLOGY**

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

**CORDIA C. BUNCH, Ph.D.** Professor of Applied Physics in Oto-Laryngology

**ALFRED M. LUCAS, Ph.D.**

Assistant Professor of Cytology in Oto-Laryngology

**WILLIAM F. WENNER, Ph.D.**

Instructor in Experimental Physiology in Oto-Laryngology

**ALFRED M. CONE, M.D.** . . . . . . Instructor in Oto-Laryngology

**DOROTHY WOLFF, M.A.** Assistant in Anatomy in Oto-Laryngology

**HECTOR M. JANSE, M.D.**

Assistant in Oto-Laryngology

**GEORGE C. SAUNDERS, M.D.** Assistant in Oto-Laryngology

**SAMUEL Z. FAIER, M.D.** Assistant in Oto-Laryngology

**WILLIAM W. FORD, M.D.** Assistant in Oto-Laryngology

**JACK V. TREYNOR, M.D.** Assistant in Oto-Laryngology

**CLAIR S. LINTON, M.S.**

Student Assistant in Bacteriology 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

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

2 Resigned, December 1, 1930.
THE SCHOOL OF MEDICINE

ARTHUR M. ALDEN, M.D., Assistant Professor of Clinical Oto-Laryngology
ISAAC D. KELLEY, JR., M.D.

Assistant Professor of Clinical Oto-Laryngology

FRENCH K. HANSEL, M.D., Assistant Professor of Clinical Oto-Laryngology
CHARLES L. DAVIS, M.D. 1  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
LOUIS E. FREIMUTH, M.D.  Assistant in Clinical Oto-Laryngology
HELEN GAGE, M.D.  Assistant in Clinical Oto-Laryngology
JAMES B. COSTEN, M.D.  Assistant in Clinical Oto-Laryngology
HARRY N. Glick, M.D.  Assistant in Clinical Oto-Laryngology
LOUIS J. BIRSNKR, M.D.  Assistant in Clinical Oto-Laryngology
ALLEN B. POTTER, M.D.  Assistant in Clinical Oto-Laryngology
LILBURN C. BOEMER, 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. Cone)

OBSTETRICS AND GYNECOLOGY

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
CARL R. WEBNER, M.D. . . . Instructor in Obstetrics and Gynecology
JOHN E. HOBBS, M.D. . . . Assistant in Obstetrics and Gynecology
A. NORMAN ARNSEN, M.D. . . . Assistant in Obstetrics and Gynecology
PAUL R. ROLLINS, M.D. . . . Assistant in Obstetrics and Gynecology
JOHN B. O'NEILL, M.D. . . . Assistant in Obstetrics and Gynecology

HARRY S. CROSSY, M.D. . . . Professor of Clinical Gynecology
FRED J. TAUSSEI, M.D. . Professor of Clinical Obstetrics and Gynecology
GRANDISON D. ROYSTON, M.D.

Assistant Professor of Clinical Obstetrics and Gynecology

1 On leave of absence.

* The names before the break in the column are those of the full-time staff.
QUITMAN U. NEWELL, M.D.
Assistant Professor of Clinical Obstetrics and Gynecology

HUGO EHRENFEST, M.D.
Assistant Professor of Clinical Obstetrics and Gynecology

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

RICHARD PADDOCK, M.D.
Assistant Professor of Clinical Obstetrics and Gynecology

OTTO S. KREBS, M.D. . Instructor in Clinical Obstetrics and Gynecology

ADOLPH G. SCHLOSSSTEIN, 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

ODA O. SMITH, M.D. . Instructor in Clinical Obstetrics and Gynecology

ROBERT J. CROSEN, M.D., Instructor in Clinical Obstetrics and Gynecology

CHARLES DRABKIN, M.D., Instructor in Clinical Obstetrics and Gynecology

EDGAR F. SCHMITZ, 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

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. ROBBLE, M.D., Assistant in Clinical Obstetrics and Gynecology

FRANZ ARZT, M.D. . Assistant in Clinical Obstetrics and Gynecology

H. WALTER EYERMANN, 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 textbook, and deals with the physiology and pathology of pregnancy, labor, and the puerperium. One hour a week throughout the year. 33 hours. 

(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 Schwarz, Professor Paddock)

(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. D. R. Smith, Dr. T. K. Brown, Dr. Davis, Dr. Schmitz)

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, 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 McNalley, 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 his-
tories 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. Other hours by arrangement. This work can also be taken in the summer months.

(Dr. D. E. Smith and Staff)

(b) **Gynecological Dispensary.** An elective course in which small sections of the class receive practical instruction in the out-patient clinic. Eight hours a week for one-half trimester. 44 hours. Other hours by arrangement. This work can also be taken in the summer months.

(Professor O'Keefe and Staff)

Students are eligible for 3(a) and 3(b) after the completion of the Junior year.

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

**THE EDWARD MALLINCKRODT DEPARTMENT OF PEDIATRICS**

W. McKIM Marriott, M.D. . . . . . . . . . Professor of Pediatrics
JEAN V. Cooke, M.D. . . . . . . . . . . Associate Professor of Pediatrics
ALEXIS F. HARTMANN, M.D. . . . . . . . . Associate Professor of Pediatrics
MARTHA VANKIRK NELSON, M.S. . Instructor in Nutrition in Pediatrics
Milton J. E. Senn, M.D. . . . . . . . . . Instructor in Pediatrics
ANNE MacGregor Perley, M.A., Instructor in Biochemistry in Pediatrics
LOUISE Powers . . . . . . . . . . Student Assistant in Pediatrics

BORDEN S. Veeder, M.D. . . . . . . Professor of Clinical Pediatrics
HUGH McCulloch, M.D. . . . . . . Assistant Professor of Clinical Pediatrics
THEODORE C. HEMPELMANN, M.D. . . . . . Assistant Professor of Clinical Pediatrics
ADRIEN BLEyer, M.D. . . . . . . Instructor in Clinical Pediatrics
PARK J. WHITE, M.D. . . . . . . Instructor in Clinical Pediatrics
PAUL J. ZENTAY, M.D. . . . . . . Instructor in Clinical Pediatrics
WAYNE A. RUPE, M.D. . . . . . . Instructor in Clinical Pediatrics

*The names before the break in the column are those of the full-time staff.*
KATHERINE BAIN, M.D. . . . . . . . . . . Instructor in Clinical Pediatrics
MAURICE J. LONSWAY, M.D. . . . . . . . . . . Assistant in Clinical Pediatrics
CLEON E. COLGATE, M.D. . . . . . . . . . . Assistant in Clinical Pediatrics
EDWIN H. ROHLFING, M.D. . . . . . . . . . . Assistant in Clinical Pediatrics
MARY McLOON, M.D. . . . . . . . . . . . Assistant in Clinical Pediatrics
MAX DEUTCH, M.D. . . . . . . . . . . . Assistant in Clinical Pediatrics

FELLOWS

BRIJ M. SHARMA, L.C.P. & S. . . . . . . . . Research Fellow in Pediatrics
CECILE ASHER, M.B., B.S. . . . . . . . . . . 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)

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)

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, Dr. Senn, Dr. Bain, 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.)

1 Effective February 1, 1931.
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 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. HARDWAY, 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

**Schedule of First Year. September 24-December 12, inclusive**

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<td>Medical Jurisprudence</td>
<td>Public Health B. and I. 3</td>
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<td>2 Sections ½ trimester each</td>
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WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

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

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<td>Clinical Pathological Conference Pathology 2 I &amp; II Trimesters</td>
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<td>Military Science and Tactics 2 II Trimester</td>
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1 Electives. See pp. 131 ff.
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<tr>
<td>9 to 12</td>
<td>Surgery 4a. Ward Work, Barnes or St. Louis Children's Hospital. Surgery 6. Orthopedic Surgery, Barnes or St. Louis Children's Hospital.</td>
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<tr>
<td>12 to 1</td>
<td>Neurology Clinic</td>
<td>Surgery Clinic</td>
<td>Pediatric Clinic</td>
<td>Medicine Clinic</td>
<td>Ob. and Gyn. Lecture</td>
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<td>Neurology 3b</td>
<td>Surgery 4b</td>
<td>Pediatrics 4</td>
<td>Medicine 10b</td>
<td>II Trimester</td>
<td>Medicine 10c</td>
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<td>Ophthalmoscopy ½ the group In 2 sections ½ trimester each</td>
<td>Ophthalmoscopy ½ the group In 2 sections ½ trimester each</td>
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<tr>
<td>4 to 5</td>
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<td>5 to 6</td>
<td>Military Science and Tactics 2 II Trimester</td>
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1 Electives. See pp. 131 ff.
### WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

**1931-32**

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

<table>
<thead>
<tr>
<th>HOURS</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
<th>SATURDAY</th>
</tr>
</thead>
</table>
| 9 to 10 | Section 1. Ob. and Gyn. 2c. Ward Work, St. Louis Maternity Hospital: 9-10.  
Section 2. Ob. and Gyn. 2d. 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 | Ob. and Gyn. 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 | | | | | |

*Electives. See pp. 131 ff.*
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 80. 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 five periods of 2 hours each per week for one-third trimester in groups of not more than one-sixth of the class. 34 hours.¹ (2 to 4 p. m.)

Dermatology: A minimum of eight periods of 2 hours each per week for third trimester in groups of not more than one-sixth of the class. 54 hours.¹ (2 to 4 p. m.)

Gynecology: A minimum of four periods of 2 hours each per week for one-third trimester in groups of not more than one-sixth of the class. 54 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.)

Medicine: Diagnosis and Treatment of Diseases of the Digestive Tract. A minimum of four periods of 2 hours each per week for one-half trimester in groups of not more than six. (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.)

Obstetrics: Pre-Natal Clinic. Hours by arrangement.

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

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

Anatomy: Topographical Anatomy. Hours by arrangement.

¹ Additional hours by arrangement.
Medicine: Applied Immunology. Hours by arrangement.

Surgery: Principles of Roentgenology. Three one-hour periods per week for four weeks. 12 hours.

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

Physical Therapeutics: Hours by arrangement.

Neurological Surgery: Eleven one-hour lectures during the first trimester. 11 hours.

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.
<table>
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<th>Name</th>
<th>Specialties</th>
<th>Location</th>
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<tr>
<td>Ackerman, Emma M., M.D.</td>
<td>Obstetrics and Gynecology</td>
<td>Sioux City, Iowa</td>
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<tr>
<td>Ball, Elizabeth B., M.D.</td>
<td>Pediatrics</td>
<td>Springfield, Ill.</td>
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<tr>
<td>Barbanell, Raymond R., M.D.</td>
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<td>Los Angeles, Cal.</td>
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<td>Barnes, Jesse W., M.D.</td>
<td>Internal Medicine</td>
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<td>Bassett, Sam T., M.D.</td>
<td>Heart</td>
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<td>Burns, Edward J., M.D.</td>
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</table>
POPE, Charles H., M.D. Heart. St. Louis, Mo.
POST, Ralph B., M.D. Pediatrics. Ballston Spa, N. Y.
PRIEST, Rufus E., M.D. Pediatrics. Houston, Miss.
PRUGH, William E., M.D. Internal Medicine. Dayton, Ohio
Raber, Daniel D., M.D. Heart. Bloomington, Ill.
SHARMA, Brij M., M.D. Obstetrics and Gynecology. Delhi, India
TYLER, William L., M.D. Heart. Owensboro, Ky.
WATERBURY, Charles A., M.D. Obstetrics and Gynecology. Waterloo, Iowa
WHITE, Jesse W., M.D. Obstetrics and Gynecology. Pueblo, Colo.
WIESE, Max E., M.D. Pediatrics. Fresno, Cal.

FOURTH YEAR CLASS

Altheide, Harvey Edison St. Louis, Mo.
Barber, Harry Clay, A.B., Univ. of Mo., '29. Richmond, Mo.
Bassett, Robert Boyd A.B., Univ. of Mo., '29.
Bassett, Sam Ardlinger A.B., Washington Univ., '27.
Betsui, David Takejl A.B., Univ. of Calif. at Los Angeles, '27. Hanapepe, Kauai, Hawaii
Bouquet, Bertram Jacob A.B., Univ. of Iowa, '27. Caledonia, Minn.
Brua, Robert Stultz A.B., Univ. of Calif. at Los Angeles, '27.
Calkins, Charles Delevan B.S., Univ. of Wisc., '27. Evansville, Wisc.
Cartwright, Edward Dennis B.S., Univ. of Wash., '27. Kansas City, Mo.
Clerk, Joseph Domenic A.B., Univ. of Neb., '24.
Coochen, John Robert A.B., Univ. of S. D., '28. Plankinton, S. D.
Conroy, Bernard Joseph B.S., Univ. of S. D., '29.
Cooper, John William A.B., Univ. of Calif. at Los Angeles, '27.
Dowdy, Andrew Hunter A.B., Central Coll., '29.
Drazer, Calvin Searle A.B., Ohio Wesleyan Univ., '27. Blackwater, Mo.
Elrod, Dennis Buckley B.S., Univ. of S. D., '29. Cape Girardeau, Mo.
B.S., Southeast Mo. State Teachers Coll., '27.
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BULLETIN OF WASHINGTON UNIVERSITY

Scott, Henry Field .......................................................... Ashland, Mo.
   A.B., Univ. of Mo., '29.

Sewall, Dan Roy, Jr. ....................................................... Jackeboro, Tex.
   A.B., Univ. of Tex., '26.

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, Stanton Gaston .................................................... Mt. Vernon, Ill.

Squibb, Joseph William ................................................ Springfield, Mo.

Stauffer, Harry Beach .................................................. Cottonwood Falls, Kan.

Sundwall, Peter Val ....................................................... Fairview, Utah
   A.B., Univ. of Utah, '28.

Summers, Jacob Hans ..................................................... Springfield, Mo.
   B.S., Drury Coll., '22.

Taussig, Joseph Bondi .................................................. St. Louis, Mo.

Tom, Henry Kee ........................................................... Kapaa, Kauai, Hawaii

Tomkins, Pendleton Souther ............................................. Lexington, Va.

Weinbaum, Martin Morton ................................................ Cleveland, Ohio
   A.B., Western Reserve Univ., '27.

Whayne, Tom French ...................................................... Clinton, Ky.

Wray, Rolla Boyd .......................................................... Elsmore, Kan.

Total, 78

THIRD YEAR CLASS

Adams, William Brown ..................................................... St. Louis, Mo.

Agress, Harry .............................................................. Eldon, Mo.

Allee, James William ................................................... New York, N. Y.
   A.B., Univ. of Mo., '28.

Allen, Benjamin Israel .................................................. Oakland, Mo.
   A.B., Southwest Mo. State Teachers Coll., '28.

Amos, J. Roy ............................................................... Madison, Wis.

Aubin, Francis Willard ................................................ 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.

Bowers, Copeland Connelly ............................................. St. Louis, Mo.

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.

Chase, Walter Edgar .................................................... St. Louis, Mo.

Changhoon, Edwin K. .................................................... Honolulu, Hawaii
   A.B., Univ. of N. D., '29.
   B.S., Univ. of N. D., '30.

Clark, Bernard Stearns ................................................ Lead, S. D.

Comer, Fay Solomon .................................................... Carlinville, III.

Crossman, Robert Wesley ................................................ St. Louis, Mo.

Daves, William Lawrence ............................................... Evansville, Ind.

Ehrich, William ........................................................ Ft. Lauderdale, Fla.
   B.S., Coll. of the City of N. Y., '26.
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<tr>
<td>Grow, John Benson</td>
<td>A.M.</td>
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<td>Hadsell, Lillian</td>
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<td>Univ. of Kan., '29.</td>
<td>Delaware, Ohio</td>
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<td>Hamlin, Courtney Norfleet</td>
<td>A.B.</td>
<td>Ohio Wesleyan Univ., '27.</td>
<td>Palmyra, Mo.</td>
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<td>Harris, Russell David</td>
<td>A.B.</td>
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<td>Sherwood, N. D.</td>
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<td>Hiller, Samuel Joseph</td>
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<td>Inouye, Kiyoshi</td>
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<td>Univ. of Hawaii, '29.</td>
<td>Honolulu, Hawaii</td>
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<td>Jarvis, James Armstrong</td>
<td>A.B.</td>
<td>Univ. of Mo., '27.</td>
<td>Sweet Springs, Mo.</td>
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<td>Jenks, Alonzo Lamber, Jr</td>
<td>B.S.</td>
<td>Univ. of Mo., '30.</td>
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<td>Kaump, Donald Hunter</td>
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<td>Linton, Clair Starrett</td>
<td>B.S.</td>
<td>Purdue Univ., '19.</td>
<td>St. Louis, Mo.</td>
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<td>Lorberbitt, Isaac</td>
<td>B.S.</td>
<td>Brooklyn Poly. Inst., '25.</td>
<td>Brooklyn, N. Y.</td>
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<td>Lefkowitz, Paul Howard</td>
<td>B.A.</td>
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<td>Spring Valley, N. Y.</td>
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<td>Parkinson, Stanley Ross</td>
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<td>Paton, Donald Munro</td>
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<td>Pearl, Sydney Samuel</td>
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<td>Pellegrino, Louis, Jr.</td>
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1 Died February 19, 1931.
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<td>Platz, John Herschel</td>
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<td>Powell, George Merle</td>
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<td>Richmond, Albert Marion</td>
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<td>Schwinghamer, Elmer J.</td>
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<td>Yeik, Harry</td>
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**Total:** 92
SECOND YEAR CLASS

Allen, Henry Cline ........................................... Alta, Ill.
Baird, Robert Desmond ........................................ Edwardsville, Ill.
Basham, Francis Clayborne ................................... Wichita, Kan.
A.B., Friends Univ., '29.
Blattner, Russell John ........................................ St. Louis, Mo.
Bosse, Frank Krennii ........................................... St. Louis, Mo.
Boyd, Arthur Montgomery ...................................... Hillsboro, Ill.
Brownson, Sheldon Seymour .................................. LaGrange, Ore.
B.S., Univ. of Wash., '28.
Bryan, William Thomas Kimlin ................................ St. Louis, Mo.
Calhoun, Alan Duncan .......................................... St. Louis, Mo.
Canseco, Francisco Manuel ................................... Laredo, Tex.
A.B., Stanford Univ., '30.
Carlson, Edward Franklin ...................................... Yreka, Cal.
A.B., Stanford Univ., '29.
Cope, Jose Shleton ............................................ Lexington, Mo.
Curfis, George Haskell ........................................ St. Louis, Mo.
Doane, Clarmont Paul .......................................... Lorraine, 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.
English, Wallace Davis ........................................ Columbia, Mo.
A.B., Univ. of Mo., '29.
Eveloff, Abe Raymond .......................................... St. Joseph, Mo.
A.B., Univ. of Mo., '30.
Flynn, Charles Henry .......................................... Webster Groves, Mo.
Fulks, Richard Burkhardt ..................................... California, Mo.
Gibson, Ora James ............................................. San Francisco, Cal.
A.B., Stanford Univ., '29.
A.M., Stanford Univ., '30.
Goldman, Harry .................................................. Brooklyn, N. Y.
A.B., Univ. of Ala., '29.
Good, Clarence Allen, Jr ..................................... St. Louis, Mo.
A.B., Williams Coll., '29.
Grim, George Edward ........................................... Kircsville, Mo.
Harford, Carl Gayler .......................................... Webster Groves, Mo.
A.B., Amherst Coll., '29.
Haelem, John Robert, Jr ...................................... Terre Haute, Ind.
A.B., Ind. State Teachers Coll., '29.
Herian, William Wolf ........................................... Cleveland, Ohio
Holden, Raymond Francis ...................................... Ferguson, Mo.
Hosto, Leland Erwin ........................................... St. Louis, Mo.
Hurst, Martin Joseph .......................................... Kansas City, Mo.
Jaudon, Joseph Cabell .......................................... St. Louis, Mo.
Johnson, Frank Craig ........................................... Carroll, Iowa
A.B., Drake Univ., '26.
Joslyn, Harold Lees ........................................... Charleston, Mo.
Kendis, Joe Bernard ............................................ Sedalia, Mo.
Kippen, Ablon Arnold .......................................... Canton, Ohio
A.B., Ohio State Univ., '29.
Kirby, Henry Vance ........................................... Harrison, Ark.
Kneivel, Ralph Wylike ........................................ East St. Louis, Ill.
Liggett, Robert Samuel ........................................ Virden, Ill.
Lindsay, Julia Hill ............................................ Webster Groves, Mo.
Loverde, Albert Angelo ......................................... Chicago, Ill.
B.S., Univ. of Chicago, '28.
Martin, Christopher Harold .................................. St. Louis, Mo.
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**FIRST YEAR CLASS**

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Birk, Carl Peter .............................................. St. Louis, Mo.
B.S., Culver-Stockton Coll., '29.

Black, William Alfred ............................................. Oakland, Cal.
A.B., Univ. of Cal., '28

Bohre, Robert William .......................................... Vincennes, Ind.

Bohrer, Edward Royse ............................................. West Plains, Mo.
A.B., Univ. of Mo., '30

Bricker, Eugene Myron ........................................... Carbondale, Ill.

Brown, John Jefferson, Jr ....................................... Fulton, Mo.

Burford, Edgar Hubert ............................................ St. Louis, Mo.

Burns, Charles Foster ........................................... Tulsa, Okla.

A.B., Univ. of Tulsa .............................................

Bush, Leonard Franklin .......................................... Springfield, Mo.

Buss, Paul Gerhard ................................................ Golden, Ill.
B.S., Capital Univ., '30.

Campbell, Thomas Curtis ......................................... St. Louis, Mo.

Chiles, Truman Linden ............................................ DeLand, III.
B.S., Ill. Wesleyan Univ., '27.

Culbertson, Roy Frederick ....................................... East St. Louis, Ill.

Dillon, John Alfred, Jr ........................................... Larned, Kan.

Doyle, William Henry ............................................. St. Louis, Mo.

Drake, Frank Rodney ............................................. University City, Mo.

Drake, Robert Lamar ............................................. St. Louis, Mo.

Eschenbrenner, Allen Bernard ..................................... East St. Louis, Ill.

Evans, Ezra Levi, Jr ............................................... Springfield, Mo.

Fisher, Robert Edmund ........................................... Gary, Ind.

Plimpton, John Sheridan ......................................... Prescott, Ariz.
B.S., Univ. of Notre Dame, '30.

Friedman, David .................................................. Madison, Ill.

Frissel, Jane Esther .............................................. St. Louis, Mo.

Frissell, Ben Pat ................................................ Cape Girardeau, Mo.
A.B., Southeast Mo. State Teachers Coll., '30.

Greenbaum, Roy ................................................................
Hageman, Paul Oonk ................................................ St. Louis, Mo.


Hammonds, Everett E ................................................ Girard, Ill.

Hampton, Stanley Forrest .......................................... St. Louis, Mo.


Hunter, Martin Peters .............................................. Bevier, Mo.

Jekle, Louis Glanz ................................................... Kirkwood, Mo.

Jones, Augustin .................................................... St. Louis, Mo.


Jones, Dorothy Jeannette ........................................... St. Louis, Mo.
A.B., Oberlin Coll., '30.

Jones, Ralph Russell ............................................... Salem, Ore.

Kranson, Seymour Julian .......................................... Marshall, Tex.

Kunkel, Paul .......................................................... St. Louis, Mo.

Larson, Kenneth Victor ............................................ Clayton, Mo.
B.S., Hastings Coll., '30.

Lesser, Arthur Jacques ............................................. Brooklyn, N. Y.

A.B., Amherst Coll., '30.

Leydig, Stanley Milton ............................................. Missoula, Mont.

B.A., State Univ. of Mont., '30.

Lloyd, Leo Walter .................................................. Palisades, Colo.

Love lace, William Randolph ...................................... Albuquerque, N. M.


Marcus, Morris David ............................................... St. Louis, Mo.

Marshall, Bromell Moeser ........................................... Topeka, Kan.
B.S., Washburn Coll., '30.

McKenzie, Walten Holt ............................................. Enid, Okla.

A.B., Univ. of Okla., '30.

McKinstry, Karl Virgil ............................................. Blackwell, Mo.

Miller, Robert Arthur ............................................. St. Louis, Mo.

Mooney, Clement Joseph .......................................... Los Angeles, Cal.
A.B., Univ. of Cal. at Los Angeles, '30.

Moss, Paul ............................................................ Kansas City, Mo.

Nordenbrock, Gregory John ........................................ St. Louis, Mo.
Orgel, Maurice Norman .......................................................... New York, N. Y.
B.S., Coll. of the City of N. Y., '29.
Patton, William Ernest ............................................................ Bentonville, Ark.
Federsen, Nicholas Stork .......................................................... San Francisco, Cal.
Poos, Robert Sanders ............................................................ University City, Mo.
Powers, Edward Sharp .............................................................. Joplin, Mo.
B.S., Yale Univ., '30.
Presnell, Charles Edwin ............................................................ St. Louis, Mo.
Rawlings, Grove Allen .............................................................. Willows, Cal.
Reynolds, Fred Curtis .............................................................. Texarkana, Tex.
Rogler, Jean Frederick ............................................................. Mason City, III.
Rosenbaum, Harry David ........................................................... St. Louis, Mo.
Rosenthal, Leonard Georges ....................................................... St. Louis, Mo.
Saxton, John Albion, Jr. ............................................................ St. Louis, Mo.
A.B., Yale Univ., '29.
Schmeckebier, Mary Mable ......................................................... St. Louis, Mo.
Schrick, Edna Watt ................................................................. St. Louis, Mo.
A.B., Univ. of Neb., '30.
Schureman, Oliver Perry, Jr ....................................................... So. Pasadena, Cal.
Shwartz, Samuel ................................................................. Dorchester, Mass.
A.B., Harvard Univ., '29.
Snoddy, John Alfred ............................................................... San Diego, Cal.
A.B., Grinnell Coll., '30.
Stindel, Charles Ernest, Jr. ...................................................... St. Louis, Mo.
Talbott, Charles Hudson ............................................................ Clayton, Mo.
Telfer, James Gavin ............................................................... La Crescenta, Cal.
Weber, George Theodore, II ..................................................... Olney, Ill.
Westphal, Corinne ................................................................. Yorktown, Tex.
A.B., Southwestern Univ., '27.
A.M., Vanderbilt Univ., '29.
Williams, Robert Norman ......................................................... Tucson, Ariz.
A.B., Univ. of Ariz., '30.
Wilson, Keith Singleton ........................................................... St. Louis, Mo.
A.B., Williams Coll., '30.
Wren, John Alexander ............................................................. Stanberry, Mo.
A.B., Univ. of Mo., '30.

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