1936

Washington University School of Medicine bulletin, 1936

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BULLETIN
of
WASHINGTON UNIVERSITY
SAINT LOUIS

FORTY-SEVENTH ANNUAL
CATALOGUE
of the
SCHOOL OF MEDICINE

APRIL 10, 1936

PUBLICATIONS OF WASHINGTON UNIVERSITY
SERIES II  VOLUME XXXIV  NUMBER XI
Washington University

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

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     Alexander S. Langsdorf, M.M.E., Dean

IV. The School of Business and Public Administration (Skinker Road and Lindell Boulevard)
    Isidor Loeb, LL.B., Ph.D., L.L.D., Dean

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Mary Institute—A Preparatory School for Girls
   (Ladue and Warson Roads, Clayton)

Charles H. Garrison, A.B., Principal
Block Plan of Washington University Medical Group and School of Dentistry
### CALENDAR

#### 1936

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CALENDAR

1935-36
Registration for Second Half-Year, Monday, February 3, and Tuesday, February 4, 1936.
Holiday, Washington's Birthday, Saturday, February 22, 1936.
Second Trimester ends Saturday, March 14, 1936.
Third Trimester begins Monday, March 16, 1936.
Holiday, Good Friday, April 10, and Saturday, April 11, 1936.
Third Trimester ends Friday, May 29, 1936.
Final Examinations begin Monday, June 1, 1936.
Commencement, Tuesday, June 9, 1936.

1936-37
Registration, Tuesday, September 22, and Wednesday, September 23, 1936.
Examinations for Advanced Standing and Removal of Conditions, Monday, September 21, to Wednesday, September 23, 1936, inclusive.
Academic Year (First Trimester) begins Thursday, September 24, 1936.
Holiday, Thanksgiving Day, Thursday, November 26, 1936.
First Trimester ends Saturday, December 12, 1936.
Second Trimester begins Monday, December 14, 1936.
Christmas Recess, Wednesday, December 23, 1936, to Saturday, January 2, 1937, inclusive.
Registration for Second Half-Year, Monday, February 1, and Tuesday, February 2, 1937.
Second Trimester ends Saturday, March 13, 1937.
Third Trimester begins Monday, March 15, 1937.
Holiday, Good Friday, March 26, and Saturday, March 27, 1937.
Third Trimester ends Friday, May 28, 1937.
Holiday, Decoration Day, Saturday, May 29, 1937.
Final Examinations begin Monday, May 31, 1937.
Commencement, Tuesday, June 8, 1937.

37-38
Dec. 23 to Jan 3, inclusive
Easter Apr. 15 to Apr. 16.
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First Vice-President
ROBERT MCKITTRICK JONES

Second Vice-President
HARRY BROOKINGS WALLACE

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FRANK CHAMBLESS RAND
JOHN TILDEN DAVIS, JR.
EUGENE DUTTON NIMS
ERNEST WILLIAM STIX
WILSON LINN HEMINGWAY

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JOSEPH HENRY ZUMBALEN

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HENRY SCHWARZ, M.D., Professor Emeritus of Obstetrics and Gynecology
FRANCIS RHODES FRY, A.B., A.M., M.D., Professor Emeritus of Neurology

1 Arranged in groups in order of appointment.
2 Died October 23, 1935.
THE SCHOOL OF MEDICINE

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MEYER WIENER, M.D., Professor of Clinical Ophthalmology
JOHN ALBERT KEY, M.D., Professor of Clinical Orthopedic Surgery
GEORGE GELLHORN, M.D., Professor of Clinical Obstetrics and Gynecology
VIRGIL LOEB, A.B., M.D., D.D.S., Lecturer in Stomatology
JEAN VALJEAN COOKE, A.B., M.D., Associate Professor of Pediatrics
WARREN PHILIP ELMER, B.S., M.D., Associate Professor of Clinical Medicine
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MILDRED TROTTER, A.B., M.S., Ph.D., Associate Professor of Anatomy
ARTHUR SCOTT GILSON, JR., B.S., A.M., Ph.D., Associate Professor of Physiology

1 Died January 25, 1936.
2 On leave of absence, July 1 to October 1, 1935.
LOUIS A. JULIANELLE, A.B., M.S., Ph.D., Associate Professor of Applied Bacteriology and Immunology

DREW WILLIAM LUTEN, A.B., M.D., Associate Professor of Clinical Medicine

JOSEPH WILLIAM LARIMORE, A.B., M.D., Associate Professor of Clinical Medicine

GORDON H. SCOTT, A.B., A.M., Ph.D., Associate Professor of Cytology

THEODORE C. HEMPELMANN, M.D., Associate Professor of Clinical Pediatrics

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QUITMAN UNDERWOOD NEWELL, M.D., Associate Professor of Clinical Obstetrics and Gynecology

HARRY WEBSTER LYMAN, M.D., Associate Professor of Clinical Otolaryngology

ARTHUR WALTER PROETZ, A.B., M.D., Associate Professor of Clinical Otolaryngology

JAMES LEE O'LEARY, B.S., Ph.D., M.D., Associate Professor of Cytology

WILLARD BARTLETT, A.B., A.M., M.D., D.Sc., Assistant Professor of Clinical Surgery

ARTHUR OSCAR FISHER, A.B., M.D., Assistant Professor of Clinical Surgery

HUGH McCulloch, A.B., M.D., Assistant Professor of Clinical Pediatrics

FRANK HENRY EWERHARDT, M.D., Assistant Professor of Physical Therapeutics

FREDERICK ENO WOODRUFF, A.B., M.D., Assistant Professor of Clinical Ophthalmology

MILLARD FILLMORE ARBUCKLE, M.D., Assistant Professor of Clinical Otolaryngology

ARTHUR MAXWELL ALDEN, A.B., A.M., M.D., Assistant Professor of Clinical Oto-Laryngology

HAROLD ATEN BULGER, B.S., M.D., Assistant Professor of Medicine

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MARTIN HAYWARD POST, A.B., M.D., Assistant Professor of Clinical Ophthalmology

MAX WILLIAM JACOBS, A.B., M.D., Assistant Professor of Clinical Ophthalmology

DUFF SHEDERIC ALLEN, M.D., Assistant Professor of Clinical Surgery

FREDERICK OSCAR SCHWARTZ, M.D., Assistant Professor of Clinical Ophthalmology

DALTON KEATS ROSE, M.D., Assistant Professor of Clinical Genito-Urinary Surgery

HARVEY DENSMORE LAMB, A.B., M.D., Assistant Professor of Ophthalmic Pathology

RICHARD SIMON WEISS, M.D., Assistant Professor of Clinical Dermatology
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ETHEL RONZONI BISHOP, B.S., A.M., Ph.D., Assistant Professor of Biological Chemistry

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FRANK POWELL McNALLEY, B.S., M.D., Assistant Professor of Clinical Obstetrics and Gynecology

CHARLES DARRELL O'KEEFE, A.B., M.D., Assistant Professor of Clinical Obstetrics and Gynecology

LAWRENCE DORLAND THOMPSON, B.S., M.D., Assistant Professor of Clinical Medicine

WALTER JOSEPH SieBERT, M.D., Assistant Professor of Pathology

GEORGE DEE WILLIAMS, A.B., A.M., M.D., Ph.D., Assistant Professor of Anatomy

ISAAC DEE KELLEY, JR., B.S., M.D., Assistant Professor of Clinical Otolaryngology

MARGARET GLADYS SMITH, A.B., M.D., Assistant Professor of Pathology

ANDREW BLUCHER JONES, M.D., Assistant Professor of Clinical Neurology

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

ISAAC Y. OLCH, Ph.B., M.D.,* Assistant Professor of Clinical Surgery

FRENCH KELLER HANSEL, M.S., M.D., Assistant Professor of Clinical Otolaryngology

ROBERT ELMAN, B.S., M.D., Assistant Professor of Surgery

PETER HEINBECKER, A.B., M.D., Assistant Professor of Surgery

HELEN TREDWAY GRAHAM, A.B., A.M., Ph.D., Assistant Professor of Pharmacology

DONALD M. HETLER, A.B., A.M., Ph.D., Assistant Professor of Bacteriology and Immunology and of Public Health

GEORGE EDWIN HOURN, D.D.S., M.D., Assistant Professor of Clinical Otolaryngology

LOUIS K. GUGGENHEIM, M.D., Assistant Professor of Clinical Oto-Laryngology

CLARENCE HARRISON CREGO, JR., B.S., M.D., Assistant Professor of Clinical Orthopedic Surgery

FRANK URBAN, B.S., Ph.D., Assistant Professor of Biological Chemistry

JAMES BARRETT BROWN, M.D., Assistant Professor of Clinical Surgery

OTTO ST. CLAIR KREBS, B.S., M.D., Assistant Professor of Clinical Obstetrics and Gynecology

BENNETT YOUNG ALVIS, B.S., M.D., Assistant Professor of Clinical Ophthalmology

THOMAS KENNETH BROWN, B.S., M.S., M.D., Assistant Professor of Clinical Obstetrics and Gynecology

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* Resigned, January 1, 1936.
LOUIS JOSEPH BIRSNER, M.D., Assistant Professor of Clinical Oto-Laryngology

WILLIAM BRYAN KOUNTZ, M.D., Assistant Professor of Medicine

GEORGE ARTHUR SEIB, A.B., M.D., Assistant Professor of Anatomy

JAMES BRAY COSTEN, A.B., M.D., Assistant Professor of Clinical Oto-Laryngology

WILLIAM BEAN WENDEL, B.S., Ph.D., Assistant Professor of Biological Chemistry, Chemist in Medicine and in Oto-Laryngology

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JEROME EFSTEIN COOK, M.D., Instructor in Clinical Medicine

LLEWELLYN SALE, M.D., Instructor in Clinical Medicine

ADRIEN BLEYER, M.D., Instructor in Clinical Pediatrics and Lecturer in Public Health

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WARREN ROBERT RAINERY, M.D., Instructor in Clinical Surgery

ADOLPH HENRY CONRAD, M.D., Instructor in Clinical Dermatology

FRANK DE VORE GORHAM, A.B., M.D., Instructor in Clinical Medicine

ADOLPH GEORGE SCHLOSSSTEIN, M.D., Instructor in Clinical Obstetrics and Gynecology

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ARCHIE DREYFUSS CARR, B.S., M.D., Instructor in Clinical Neurology

SAMUEL BECKER GRANT, B.S., M.D., Instructor in Clinical Medicine

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RAYMOND MILLS SPIVY, M.D., Instructor in Clinical Obstetrics and Gynecology

JOSEPH EDGAR STEWART, M.D., Instructor in Clinical Orthopedic Surgery

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MIRIAM SCOTT LUCAS, B.S., Ph.D., Instructor in Cytology

FREDERICK AUGUSTUS JOSTES, B.S., M.D., Instructor in Clinical Orthopedic Surgery

1 Resigned, September 15, 1935.
WAYNE ARTHUR RUPE, A.B., M.D., Instructor in Clinical Pediatrics
ALFRED GOLDMAN, A.B., M.D., Instructor in Clinical Medicine
HIRAM SHAW LIGGETT, M.D., Instructor in Clinical Medicine
ROBERT JAMES CROSSEN, A.B., M.D., Instructor in Clinical Obstetrics and Gynecology
CHARLES WILLIAM DUDEN, M.D., Instructor in Clinical Medicine
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WILLIAM FRANKLIN WENNER, A.B., Ph.D., M.D., Instructor in Experimental Physiology in Oto-Laryngology
IRENE KOECHIG FREIBERG, A.B., A.M., Instructor in Biological Chemistry
JOSEPH FRANCIS BREDECK, A.B., M.D., Instructor in Clinical Medicine
RALEIGH K. ANDREWS, B.S., M.D., Instructor in Clinical Medicine
ANTHONY BIGELOW DAY, B.S., M.D., Instructor in Clinical Medicine
ROLAND METZLER KLEEME, M.D., Instructor in Clinical Neurological Surgery
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JOSEPH HOY SANFORD, M.D., Instructor in Clinical Genito-Urinary Surgery
OTTO JULIUS WILHELMI, B.S., M.D., Instructor in Clinical Genito-Urinary Surgery
JOHN E. HOEBS, A.B., M.D., Instructor in Obstetrics and Gynecology

1 On leave of absence, 1935-36.
2 Resigned, September 30, 1935.
DOROTHY WOLFF, A.B., M.A., Ph.D., Instructor in Anatomy in Oto-Laryngology

HENRY SPENCE BROOKES, JR., M.D., Instructor in Clinical Surgery

JACOB G. PROBSTEN, M.D., Instructor in Clinical Surgery

CECIL MARVIN CHARLES, A.B., A.M., Ph.D., M.D., Instructor in Anatomy and Assistant in Clinical Medicine

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LOUIS FRED AIKEN, B.S., M.D., Instructor in Clinical Medicine

HUBERT BEAUFORT PEUGNET, A.B., M.D., Instructor in Physiology

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VAL BEYER SATTERFIELD, B.S., M.D., Instructor in Clinical Neurology

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ROBERT VOTAW, M.D., Instructor in Oto-Laryngology

MARTIN FEENEY ENGMAN, JR., M.D., Instructor in Clinical Dermatology

WENDELL GARRISON SCOTT, A.B., M.D., Instructor in Radiology

ROBERT EDMUND FISHER, A.B., M.D., Instructor in Pharmacology

HIROMU TSUCHIYA, A.B., Sc.D., Instructor in Bacteriology and Immunology and in Public Health

A. NORMAN ARNESON, B.S., M.D., Instructor in Radiology and in Obstetrics and Gynecology

PAUL WILLIAM PREISLER, B.S., M.S., Ph.D., Instructor in Biological Chemistry

THOMAS PALMER FINDLEY, JR., A.B., M.D., Instructor in Clinical Medicine

LEON BROMBERG, A.B., M.D., Instructor in Clinical Medicine

JAMES M. DOUGLAS, LL.B., Lecturer in Medical Jurisprudence

JOSEPH C. WILLET, D.V.M., Lecturer in Public Health

ROY EARL MASON, M.D., Lecturer in Clinical Ophthalmology

THOMAS B. POTE, D.V.S., M.D., Lecturer in Pathology

MAURICE JULIUS LONSWAY, B.S., M.D., Assistant in Clinical Pediatrics
THE SCHOOL OF MEDICINE

AMALIE MARIE NAPIER, M.D., Assistant in Clinical Ophthalmology
WILLIAM LUDWIG HANSON, M.D., Assistant in Clinical Oto-Laryngology
LEE PETIT GAY, A.B., M.D., Assistant in Clinical Medicine
OLIVER ABEI, Jr., B.S., M.D., Assistant in Clinical Medicine
WILLIAM GEORGE BECKE, M.D., Assistant in Clinical Medicine
FRANCIS JOHN CANEPA, M.D., Assistant in Clinical Obstetrics and Gynecology
EUGENE AUGUST VOGEL, A.B., M.D., Assistant in Clinical Obstetrics and Gynecology
LOUIS E. FREIMUTH, B.S., M.D., Assistant in Clinical Oto-Laryngology
HELEN L. B. GAGE, B.S., M.D., Assistant in Clinical Oto-Laryngology
MYRON WOODWARD DAVIS, M.D., Assistant in Clinical Obstetrics and Gynecology
CLEON EDWARD COLGATE, A.B., M.D., Assistant in Clinical Pediatrics
LOUIS COHEN, B.S., M.D., Assistant in Clinical Medicine
BEN DRIUE SENTURIA, B.S., M.D., Assistant in Clinical Medicine
FRANKLIN EDWARD WALTON, B.S., M.D., Assistant in Clinical Surgery
HARRY WILLIAM WIESE, B.S., M.D., Assistant in Clinical Medicine
MARION CLAIRE MORRIS, A.B., M.S., Assistant in Applied Bacteriology and Immunology
HARRY NAYLOR GLICK, A.B., M.D., Assistant in Clinical Oto-Laryngology
BARBARA STANDISH KENDALL, A.B., Ed.M., Assistant in Applied Psychology in Neurology
KARL JOHN BALAZS, B.S., M.D., Assistant in Clinical Obstetrics and Gynecology
MELVIN ANDREW ROBLEE, B.S., M.D., Assistant in Clinical Obstetrics and Gynecology
FRANZ JOSEPH ARZT, M.D., Assistant in Clinical Obstetrics and Gynecology
ELMER RICHMAN, M.D., Assistant in Clinical Medicine
CHARLES EDWARD GILLILAND, B.S., M.D., Assistant in Clinical Medicine
BERTRAND YOUNKER GLASSBERG, B.S., M.D., Assistant in Clinical Medicine
EDWIN HENRY ROHLFING, M.D., Assistant in Clinical Pediatrics
ALLEN BREWER POTTER, A.B., M.D., Assistant in Clinical Oto-Laryngology
KENNETH FRANKLIN GLAZE, B.S., M.D., Assistant in Clinical Medicine
MARY ANNE MCLOON, A.B., B.M., M.D., Assistant in Clinical Pediatrics
LILBURN CASPER BOEMER, B.S., M.D., Assistant in Clinical Oto-Laryngology
MAX DEUTCH, M.D., Assistant in Clinical Pediatrics
ROBERT WILSON BARTLETT, B.S., M.D., Assistant in Clinical Surgery
EDWARD LAWRENCE KEYES, Jr., B.S., M.D., Assistant in Clinical Surgery
CATHERINE C. BUERMESTER, B.S., M.S., Assistant in Applied Chemistry in Oto-Laryngology
GEACE MEHRTEN, A.B., M.A., Assistant in Applied Bacteriology in Medicine and Assistant in Bacteriology and Immunology
MILTON SMITH, B.S., M.D., Assistant in Clinical Medicine
IRWIN HERMAN ESKELES, B.S., M.D., Assistant in Clinical Dermatology
JOSEPH ALOYSIUS BAUER, M.D., Assistant in Clinical Pediatrics
KEVIN CHARLES MORRIN, M.B., B.Ch., Assistant in Clinical Obstetrics and Gynecology
PAUL ROLAND NEMOURS, B.S., M.D., Assistant in Clinical Oto-Laryngology
WILLARD CALVIN SCRIVNER, B.S., M.D., Assistant in Clinical Obstetrics and Gynecology
JOHN B. O'NEILL, M.D., Assistant in Clinical Obstetrics and Gynecology
FREDERICK AUGUST JACOBS, B.S., M.D., Assistant in Clinical Pediatrics
FREDERICK W. SCHERRER, B.S., M.D., Assistant in Clinical Oto-Laryngology
SOL LONDE, B.S., M.D., Assistant in Clinical Pediatrics
LEE BULLEN HARRISON, A.B., M.D., Assistant in Clinical Medicine
LOUIS T. BYARS, B.S., M.D., Assistant in Clinical Surgery
MARIAN GRACE PFINGSTEN, A.B., Assistant in Oto-Laryngology
JAMES EDWARD PITTMAN, A.B., M.D., Assistant in Surgery
OLIVE SCHREGARDUS O'BYRNE, A.B., Assistant in Applied Chemistry in Medicine
ALBERT CHESTERFIELD STUTSMAN, B.S., M.D., Assistant in Clinical Oto-Laryngology
FRANCES H. STEWART, M.D., Assistant in Clinical Obstetrics and Gynecology
GUERDAN HARDY, M.D., Assistant in Clinical Ophthalmology
BARRETT LEARNED TAUSIG, A.B., M.D., Assistant in Medicine
LOUIS L. TUREEN, B.S., M.D., Assistant in Clinical Neurology
JOHN BLANCHARD BARGER, M.D., Assistant in Clinical Medicine
EDWARD WYATT CANNADY, A.B., M.D., Assistant in Clinical Medicine
BRADFORD CANNON, A.B., M.D., Assistant in Surgery
LEONARD THOMPSON FURLOW, B.S., M.D., Assistant in Clinical Neurological Surgery
LEO GOTTLIEB, A.B., A.M., M.D., Assistant in Medicine
NOTLEY WILLIAM HAWKINS, A.B., M.D., Assistant in Clinical Ophthalmology
ADOLPH CHARLES LANGE, B.S., M.D., Assistant in Clinical Ophthalmology
LLOYD C. MILLER, M.D., Assistant in Clinical Medicine
HAROLD GOULD NEWMAN, B.S., A.M., M.D., Assistant in Clinical Medicine
ROBERT KEDZIE PLANT, B.S., M.D., Assistant in Obstetrics and Gynecology
W. TUPPER PLUMPE, B.S., M.D., Assistant in Clinical Medicine
LYMAN KING RICHARDSON, A.B., M.D., Assistant in Surgery
JOHN ALBION SAXTON, JR., A.B., M.D., Assistant in Pathology
KATHERINE OPHELIA SHIRLEY, A.B., M.D., Assistant in Medicine
DAVID MILLER SKILLING, JR., B.S., M.D., Assistant in Clinical Medicine
ROBERT S. SMITH, A.B., Sc.D., M.D., Assistant in Surgery
HELMA CHAIM WASSERMAN, A.B., M.D., Assistant in Obstetrics and Gynecology
ALFRED D. HERSHEY, Ph.D., Assistant in Bacteriology and Immunology
MARSHALL G. SEIBEL, B.S., M.D., Assistant in Clinical Medicine
HENRY LEO CABITT, A.B., M.D., Assistant in Clinical Surgery
STANLEY LEONARD HARRISON, B.S., M.D., Assistant in Clinical Pediatrics
JOHN WARREN HENDERLITE, M.D., Assistant in Clinical Medicine
JOHN FRANKLIN PATTON, M.D., Assistant in Clinical Genito-Urinary Surgery
KENNETH O. WILSON, M.D., Assistant in Clinical Genito-Urinary Surgery
HARRY L. THIEME, B.S., M.D., Assistant in Clinical Orthopedic Surgery
LLOYD DAVID LINTON, B.S., Assistant in Applied Bacteriology in Oto-Laryngology
JAY CRAWFORD, A.B., B.S., M.D., Assistant in Ophthalmology
HANS LOUIS KLEINE, B.S., M.D., Assistant in Clinical Obstetrics and Gynecology
JANET HOLMES ALEXANDER, A.B., Assistant in Immunology in Oto-Laryngology
EUGENE MYRON BRICKER, M.D., Assistant in Surgery
ALAN DUNCAN CALHOUN, A.B., M.D., Assistant in Ophthalmology
ALLEN BERNARD ESCHENBRENNER, M.D., Assistant in Pathology
ORA JAMES GIBSON, A.B., A.M., M.D., Assistant in Obstetrics and Gynecology
JAY STEPHAN GOODMAN, B.S., M.S., M.D., Assistant in Medicine
CARL GAYLOR HARFORD, A.B., M.D., Assistant in Medicine and in Bacteriology and Immunology
CHARLES LEE HOAGLAND, B.S., M.D., Assistant in Pathology
LOUIS GLANZ JEKEL, B.S., M.D., Assistant in Medicine
JAMES MAXWELL LITTLE, A.B., M.S., Assistant in Biological Chemistry
KURT MANSBACHER, M.D., Assistant in Clinical Medicine
WILLIAM HENRY MEINBERG, JR., B.S., M.D., Assistant in Clinical Ophthalmology
DANIEL WILBUR MYERS, A.B., M.D., Assistant in Medicine
LESLIE ENDICOTT PATTON, B.S., M.D., Assistant in Clinical Obstetrics and Gynecology
FRED CURTIS REYNOLDS, A.B., M.D., Assistant in Surgery

1 Resigned, September 15, 1935.
Avery Peck Rowlette, M.D., Assistant in Clinical Surgery
Mary Mable Schmeckebier, B.S., M.D., Assistant in Pathology
William Russell Smith, M.D., Assistant in Surgery
Barrett Learned Taussig, A.B., M.D., Assistant in Medicine
Dwight Howe Trowbridge, Jr., A.B., M.D., Assistant in Ophthalmology
Arnold De Merritt Welch, B.S., M.S., Ph.D., Assistant in Pharmacology
George J. L. Wulff, Jr., A.B., M.D., Assistant in Obstetrics and Gynecology
Paul Franklin Max, B.S., M.D., Assistant in Clinical Obstetrics and Gynecology
Roy Louis Kile, B.S., M.D.; Assistant in Clinical Dermatology
Theodore Charles Bauerlein, A.B., M.D.; Assistant in Medicine
Maurice Norman Orgel, B.S., A.M., M.D.; Assistant in Medicine
Keith Singleton Wilson, A.B., M.D.; Assistant in Medicine
H. Noland Fisher, M.D.; Assistant in Clinical Ophthalmology
Sim F. Beam, A.B., M.D.; Assistant in Clinical Medicine
Marianne Kuttner, M.D.; Assistant in Clinical Medicine
Melvin Staeble, M.D.; Assistant in Clinical Medicine

Helene C. Coleman. Secretary to the Dean

1 Effective November 13, 1935.
2 Effective January 1, 1936.
3 Effective March 4, 1936.
THE SCHOOL OF MEDICINE

FELLOWS

GERTY T. CORI, M.D., Research Fellow in Pharmacology
SAMUEL ROBERT SNODGRASS, B.S., M.D., Fellow in Neurological Surgery
ROBERT WATKINSON HUNTINGTON, JR., A.B., M.D., Catlin Fellow in Pediatrics
ROBERT ALEXANDER PETERSON, M.D.,1 Research Fellow in Oto-Laryngology
LESLIE YOUNG, B.Sc., Ph.D., Commonwealth Research Fellow in Biological Chemistry

RESEARCH ASSOCIATES AND ASSISTANTS

SAMUEL HOWARD BARTLEY, Ph.D., Research Associate in Bio-physics and Psychology
PHILIP S. WILLIAMS,2 Research Associate in Cytology
EDWARD LEROY BURNS, M.D., Research Assistant in Pathology
SAMUEL J. HAYWARD, Research Assistant in Pathology
VALENTINA SUNTZEFF, M.D., Research Assistant in Pathology
ALFRED M. Lucas, A.B., Ph.D.,3 Research Associate in Cytology
GENEVIEVE WILBUR, A.B., M.S., Research Assistant in Pediatrics
JAMES HOWARD McMILLEN, A.B., Ph.D., M.S.,4 Research Associate in Cytology
LEROY F. HELMBURGER, M.D.,5 Research Associate in Cytology
ELIZABETH MOORE, A.B., M.D.,6 Research Assistant in Applied Bacteriology and Immunology

1 Resigned, September 15, 1935.
2 Effective, September 1, 1935.
3 September 1, 1935 to March 1, 1936.
4 March 1 to June 30, 1936.
5 Resigned September 1, 1935.
6 Resigned September 1, 1935.
7 Effective September 1, 1935.
8 Effective October 1, 1935.
STAFFS OF THE UNIVERSITY HOSPITALS

ADMINISTRATION

LOUIS H. BURLINGHAM, M.D. . . . Superintendent, Barnes Hospital
ESTELLE D. CLAIBORNE, R.N.

Superintendent, St. Louis Children’s Hospital

MARY KEITH . . . . Superintendent, St. Louis Maternity Hospital
FRANK R. BRADLEY, M.D. . Assistant Superintendent, Barnes Hospital
ANNA BRANDNER, B.S., R.N.
Assistant Superintendent, St. Louis Children’s Hospital

MARY M. REYNOLDS, R.N.
Assistant Superintendent, St. Louis Children’s Hospital (Ridge Farm)

CORNELIA S. KNOWLES, R.N. . . Executive Assistant, Barnes Hospital
LOLA V. BREITENSTEIN, R.N. . . Admitting Officer, Barnes Hospital

MEDICINE

Physician in Chief
David P. Barr

Associate Physician
Harry L. Alexander

Assistant Physicians
Elsworth S. Smith
Albert E. Taussig
Warren P. Elmer
Jerome E. Cook
Walter Fischel
Walter Baumgarten
William H. Olmsted
Drew W. Luten
Charles H. Eyermann
Jacob J. Singer
Frank D. Gerham
Joseph W. Larimore
Arthur E. Strauss
Alfred Goldman
Samuel B. Grant
Lawrence D. Thompson
Anthony B. Day
Lee P. Gay
Lee D. Cady
Harold A. Bulger
Llewellyn Sale

John V. Lawrence
William G. Becke
Milo L. Heideman
Hiram S. Liggett
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Harry W. Wiese
Oliver Campbell
Charles E. Gilliland
William B. Kountz
Louis H. Behrens
Howard Rusk
Julius Jensen
C. Malone Stroud
Kenneth Glaze
Louis H. Hampelmann
Charles Duden
J. Ted Jean
Louis F. Aitken
Elmer Richman
Joseph Bredeck
Cyril MacBryde
Marshall Seibel
Lee B. Harrison
Karl Koenig
Milton Smith
Thomas Findley
Cecil M. Charles
Albert H. Hamel
William Alexander Smith
Leon Bromberg
Carl G. Harford
Edward Cannady
SURGERY

Surgeon in Chief
Evarts A. Graham

Associate Surgeons
Ernest Sachs
Vilray P. Blair
John R. Caulk
Malvern B. Clpton
J. Albert Key

Assistant Surgeons
Arthur O. Fisher
Major G. Seelig
J. Edgar Stewart
Warren R. Rainey
Cleveor H. Copher
Dalton K. Rose
Charles A. Stone
Duff S. Allen
Roland M. Klemme
Theodore P. Brookes
James B. Brown
Warren H. Cole
Frederick A. Jostes
J. Hoy Sanford
Otto J. Wilhelm
V. Rogers Deakin
Robert Elman
Peter Heinbecker
Henry S. Brookes, Jr.
Nathan A. Womack
Clarence H. Crego, Jr.
Edward L. Keyes, Jr.
Franklin Walton
John Patton
Robert W. Bartlett
Leonard T. Furlow
Louis T. Byars

Voluntary Assistants
Samuel R. Snodgrass
Wesley D. Thompson
I. M. Tarlov
Alvah G. Heideman

ASSOCIATE OBSTETRICIANS AND
GYNECOLOGISTS

Frederick J. Taussig
Grandison D. Royston
Quitman U. Newell
Hugo Ehrenfest
Frank P. McNalley
Charles D. O'Keefe

Assistant Obstetricians and
Gynecologists
Adolph G. Schlossstein
Otto St. Clair Krebs
Richard Paddock
Raymond M. Spivy
John R. Vaughan
Robert J. Crossen
Grover B. Lisee
T. Kenneth Brown
Dudley R. Smith
Charles Drabkin
Myron W. Davis
Franz Arzt
Melvin A. Roblee
Karl J. Balazs
Francis J. Canepa
Eugene A. Vogel
Carl R. Wegner
John E. Hobbs
John B. O'Neill
Samuel D. Soule
Kevin C. Morrin
Willard C. Scrivner
Frances H. Stewart
A. Norman Arneson
Hans L. Kleine
Robert K. Plant
Helman C. Wasserman
George J. L. Wulff
Ora J. Gibson
Leslie E. Patton
Paul F. Max

OTO-LARYNGOLOGY

Oto-Laryngologist in Chief
Lee W. Dean

Assistant Oto-Laryngologists
Harry W. Lyman
Millard F. Arbuckle
Arthur W. Proetz
William L. Hanson
George E. Hourn
Arthur M. Alden
French K. Hanel
Bernard J. McMahon
James B. Costen

OBSTETRICS AND
GYNECOLOGY

Consultant
Harry S. Crossen

Obstetrician and Gynecologist
in Chief
Otto H. Schwarz
OPHTHALMOLOGY

Ophthalmologist in Chief
Lawrence T. Post

Associate Ophthalmologists
William E. Shahan
Meyer Wiener

Assistant Ophthalmologists
William F. Hardy
Frederick E. Woodruff
Max W. Jacobs
M. Hayward Post
Frederick O. Schwartz
Bennett Y. Alvis
William M. James
Harvey D. Lamb
Howard R. Hildreth
Carl Beisbarth
Grover H. Poos
Roy E. Mason
William Meinberg

Voluntary Assistant
Gilbert Struble

DERMATOLOGY

Dermatologist
Martin F. Engman

Assistant Dermatologists
Richard S. Weiss
Adolph H. Conrad
William G. Coleman
Martin F. Engman, Jr.
Clinton W. Lane
Irwin A. Eskeles

NEUROLOGY

Neurologist
Sidney I. Schwab

Assistant Neurologists
Andrew B. Jones
Archie D. Carr
J. William Beckmann
Val B. Satterfield
Louis Tureen
Paul Kubitschek

PATHOLOGY

Pathologist
Leo Loeb

Associate Pathologist
Howard A. McCordock

Assistant Pathologist
Walter J. Siebert

RADIOLOGY

Roentgenologist
Sherwood Moore

Assistant Roentgenologists
Joseph W. Larimore
Oscar C. Zink
Wendell G. Scott
STOMATOLOGY AND DENTISTRY

Stomatologist
Virgil Loeb

Dentists
William B. Spotts
James A. Brown
Roy C. Mallory
Donald White

Assistant Dentist
E. C. Brooks

MISCELLANEOUS

Physiologist
Joseph Erlanger

Chemist
Philip A. Shaffer

Anthropologist
Robert J. Terry

Physician in Charge of Physical Therapeutics
Frank H. Ewerhardt

Physicist
Cordia C. Bunch

Assistant Chemist, St. Louis Children's Hospital
Anne Macgregor Perley

HOUSE STAFF

MEDICINE

Resident
Leo Gottlieb

Assistant Residents
Daniel W. Myers
Barrett Taussig

Interns
Keith S. Wilson
Theodore Bauerlein
Paul Kunkel
John R. Smith
M. Norman Orgel
Edward Massie
John W. Seddon
Sydney B. Maughs
James F. Lewis
Allen B. Phillips
Joseph Edwards

Extern
Katherine Shirley

SURGERY

Resident
James E. Pittman

Assistant Residents
Bradford Cannon
Lyman K. Richardson
Robert S. Smith
William Russell Smith
Eugene M. Bricker
Fred C. Reynolds

OBSTETRICS AND GYNECOLOGY

Residents
Robert K. Plant
Helman C. Wasserman

Assistant Residents
Ora J. Gibson
George J. L. Wulff

Interns
Donald M. Baldwin
Carl P. Birk
Phillips K. Champion
Clarence C. Engleman
David Friedman
Jan Nyboer
Gordon Prachar
Richard Y. Sakimoto
Leon B. Thomas

OTO-LARYNGOLOGY

Resident (Pathologist)
Lee W. Dean, Jr.
Assistant Residents
H. M. Smit
W. T. K. Bryan
F. H. Borg
R. O. Smith

Interns
John S. Agar
Grove A. Rawlins
W. H. McKenzie
Braswell Collins
T. J. Haughton

Externs
Charles Mahoney
Dewey St. John
R. O. Smith

OPHTHALMOLOGY

Residents
Dwight H. Trowbridge
Alan D. Calhoun

Assistant Residents
Theodore E. Sanders

Interns
T. F. O'Connor
A. Reas Anneberg

Externs
Roger S. Grimmert
William F. Klotz
George E. Zukovich

PEDIATRICS

Residents
J. Keller Mack
A. R. Eveloff

Assistant Resident
Russell Blattner

Interns
Fred C. Turley
Edna W. Schrick
John M. Nelson
Gordon E. Stone
Jack Basman
Paul L. Boisvert
Emily Ripka

PATHOLOGY

Intern
Allen B. Eschenbrenner


Director
John V. Lawrence

Supervisor of Nursing
Edna Miller Gibson

Record Librarian
Flora Robinson Wells

Optician
J. S. Crawford

MEDICAL CLINICS

Physician in Chief
David P. Barr

GENERAL MEDICAL DIVISION

Chief of Clinic
John V. Lawrence

Physicians in Charge
J. Ted Jean
Charles W. Duden

Physicians to Out-Patients
Elsworth S. Smith
Albert E. Taussig
Elmer Richman
Howard A. Rusk
Harry L. Alexander
Walter Baumgarten
Jerome Cook
Walter Fischel
Lee Pettit Gay
Frank Gorham
Llewellyn Sale
B. Y. Glassberg
Marshall Seibel
Thomas Findley
Assistant Physicians to Out-Patients
Harold G. Newman
Carl G. Harford
Louis Jekel
Katherine Shirley
William Doyle

ENDOCRINE DIVISION

Chief of Clinic
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Physicians in Charge
Harold A. Bulger (Diabetic)
Otto H. Schwarz (Gynecological)
Samuel D. Soule (Gynecological)

Physicians to Out-Patients
Cyril M. MacBryde
B. Y. Glassberg

Assistant Physicians to Out-Patients
Kurt Mansbacher
Marianne Kuttner
Cecil M. Charles
Ralph Hayden

ALLERGY DIVISION

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Harry L. Alexander

Physician in Charge
Charles H. Eyermann

Physicians to Out-Patients
Elmer Richman

Assistant Physician to Out-Patients
Kurt Mansbacher

FOOD CLINIC DIVISION

Dietitian
Ruth Kahn

GASTROINTESTINAL DIVISION

Chief of Clinic
Joseph W. Larimore

Physician in Charge
Theodore Bauerlein

Assistant Physician to Out-Patients
Louis Jekel

ANEMIA DIVISION

Physician in Charge
Lawrence D. Thompson

Assistant Physicians to Out-Patients
Oliver E. Tjoflat
Hermann Rosenfeld

ARTHRITIS DIVISION

Physician in Charge
J. Albert Key

Assistant Physicians to Out-Patients
Oliver E. Tjoflat
Hermann Rosenfeld

NEUROLOGICAL DIVISION

Chief of Clinic
Sidney I. Schwab

Physicians to Out-Patients
Andrew B. Jones
Archie D. Carr
Val B. Satterfield
Paul Edward Kubitschek

Assistant Physician to Out-Patients
Joseph Gitt

Physician to Out-Patients
Kurt Mansbacher
Marianne Kuttner
Cecil M. Charles
Ralph Hayden

CARDIOVASCULAR DIVISION

Chief of Clinic
Arthur E. Strauss

Physicians to Out-Patients
Drew W. Luten
Hiram S. Liggett
William Kountz
Julius Jensen

Assistant Physicians to Out-Patients
David M. Skilling
Melvin Stechle
Jay Goodman
Byron McGinnis

Psychologist
Barbara Standish Kendall
CHEST DIVISION
*Chief of Clinic*
Alfred Goldman

*Assistant Physicians to Out-Patients*
Kenneth F. Glaze
Reuben Kaplan
Kurt Mansbacher
Sim Beam
L. C. Miller

LABORATORY DIVISION
*Technician*
Anna Rawlins

VENEREAL CLINIC
*Chief of Clinic*
Louis F. Aitken

MEDICAL DIVISION
*Physician in Charge*
Louis F. Aitken

DERMATOLOGICAL DIVISION
*Physician in Charge*
Clinton W. Lane

NEUROSYPHILIS DIVISION
*Physician in Charge*
Lee D. Cady

*Assistant Physicians to Out-Patients*
Cyril M. MacBryde
Cecil M. Charles

*Ophthalmological Consultant*
William M. James

OBSTETRIC DIVISION
*Chief of Clinic*
Otto H. Schwarz

*Physician to Out-Patients*
Samuel D. Soule

THERAPEUTIC DIVISION
*Physician in Charge*
William G. Coleman

PROCTOLOGICAL DIVISION
*Surgeon in Charge*
Warren R. Rainey

UROLOGICAL DIVISION
*Chief of Clinic*
Rogers Deakin

HEALTH AND DIAGNOSTIC CLINIC
*Chief of Clinic*
John V. Lawrence

*Physician in Charge and Physician to Medical and Dental Students*
J. Ted Jean

*Pediatrician*
Frederick A. Jacobs

DERMATOLOGICAL CLINIC
*Dermatologist in Chief*
Martin F. Engman

*Chief of Clinic*
Richard Weiss

*Physicians to Out-Patients*
Adolph H. Conrad
William G. Coleman
Clinton W. Lane

*Assistant Physician to Out-Patients*
Irwin H. Eskeles

SURGICAL CLINICS
*Surgeon in Chief*
Evarts A. Graham

GENERAL SURGERY DIVISION
*Chief of Clinic*
Warren H. Cole
Surgeons to Out-Patients
Ernest Sachs
Arthur O. Fisher
Clyver H. Copher
Warren R. Rainey
J. Barrett Brown
Nathan Womack
Robert Elman
Jacob G. Probstein
Harry S. Brookes, Jr.
Peter Heinbecker

Assistant Surgeons to Out-Patients
Edward L. Keyes
Robert Bartlett
Franklin Walton

GENITO-URINARY DIVISION
Chief of Clinic
Rogers Deakin

Assistant Surgeons to Out-Patients
John Patton
K. O. Wilson
Carl J. Althaus
H. G. Greditzer
H. H. Feller

ORTHOPEDIC DIVISION
Chief of Clinic
J. Albert Key

Surgeons to Out-Patients
Charles A. Stone
J. Edgar Stewart
Frank H. Ewerhardt
Theodore P. Brookes

Assistant Surgeons to Out-Patients
Frederick A. Jostes
H. L. Thieme

PEDIATRIC CLINICS
Pediatrician in Chief
W. McKim Marriott

Chief of Clinics
Jean V. Cooke

GENERAL PEDIATRIC DIVISION
Physician in Charge
Jean V. Cooke

Physicians to Out-Patients
Adrien Bleyer
Alexis Hartmann
Frederick A. Jacobs

Assistant Physicians to Out-Patients
Max Deutch
Ben M. Bull
Sol Londe
Stanley L. Harrison
Marianne Kuttner

ALLERGY DIVISION
Physician in Charge
Katherine Bain

CARDIAC DIVISION
Physician in Charge
Hugh McCulloch

CONGENITAL SYphilis DIVISION
Physician in Charge
Edwin H. Rohlfing

WELL BABY DIVISION
Physician in Charge
Jean V. Cooke

OBSTETRICAL AND GYNECOLOGICAL CLINIC
Obstetrician and Gynecologist in Chief
Otto H. Schwarz

Chief of Gynecological Clinic
John E. Hobbs

Chief of Obstetrical Clinic
Dudley R. Smith

Obstetricians and Gynecologists to Out-Patients
Quitman U. Newell
T. Kenneth Brown
Karl J. Balazs
Otto S. Krebs
Carl R. Wegner
Grover B. Liese
Charles Drabkin
Robert J. Crossen
Samuel D. Soule  
A. Norman Arneson  
Malvin A. Roblee  
Myron W. Davis  

Assistant Obstetricians and Gynecologists to Out-Patients  
Francis J. Canepa  
Frances H. Stewart  
Kevin C. Morrin  
Willard C. Scrivner  
John B. O'Neill  
Hans L. Kleine  
Helman C. Wasserman  
Robert K. Plant  
George J. L. Wulf, Jr.  
Ora James Gibson  
Leslie E. Patton  
Paul F. Max

Assistant Ophthalmologists to Out-Patients  
Guerdan Hardy  
Adolph C. Lange  
Notley W. Hawkins  
J. S. Crawford  
W. H. Meinberg  
Noland Fisher

OTOLARYNGOLOGICAL CLINIC  
Oto-Laryngologist in Chief and Chief of Clinic  
Lee W. Dean

Associate Chiefs of Clinic  
Harry W. Lyman  
Millard F. Arbuckle  
Arthur W. Proetz  
Arthur M. Alden  
French K. Hansel

Surgeons to Out-Patients  
George E. Hourn  
Isaac D. Kelley, Jr.  
James B. Costen  
Bernard J. McMahon  
Alfred J. Cone  
Louis J. Birnsner

Assistant Surgeons to Out-Patients  
Harry N. Glick  
Helen Gage  
Allen B. Potter  
Lilburn C. Boener  
F. W. Scherrer  
Robert Votaw  
A. C. Stutsman

THE ST. LOUIS CITY HOSPITAL  
Visiting Physicians and Surgeons to the City Hospital and other City institutions are designated by Washington University to act as follows:

Medicine  
Oliver H. Campbell  
Lawrence D. Thompson  
Julius Jensen  
Oliver Abel, Jr.  
Marshall Seibel  
Milo L. Heideman  
Edward Cannady  
Milton Smith  
Thomas Findley

Surgery  
Peter Heinbecker  
Franklin Walton  
Robert Elman  
Nathan Womack  
J. Barrett Brown

Obstetrics and Gynecology  
T. Kenneth Brown  
Dudley R. Smith

1 Appointed by the City upon nomination by the University,
John B. O'Neill  
Melvin A. Roblee  
Samuel D. Soule  

**Neurology**  
Archie D. Carr  
Louis Tureen  

**Orthopedic Surgery**  
J. Albert Key  
Theodore P. Brookes  
J. Edgar Stewart  
Fred Jostes  
C. A. Stone  

**Dermatology**  
William G. Coleman  
Clinton Lane  

**Ophthalmology**  
Lawrence Post  
Frederick O. Schwartz  
Bennett Y. Alvis  
M. Hayward Post  
Guerdan Hardy  
Adolph Lange  
William H. Meinberg  

**Oto-Laryngology**  
Arthur W. Proetz  
Bernard J. McMahon  
Frederick W. Scherrer  
Harry N. Glick  
Allen Potter  

**Genito-Urinary Surgery**  
Otto J. Wilhelmi  
Kenneth O. Wilson  
John F. Patton  

The facilities of the Isolation Hospital and the City Sanitarium are available for the use of the faculty.
BUSINESS OFFICERS OF THE UNIVERSITY

JOSEPH HENRY ZUMBULEN, LL.B.
Treasurer and Secretary to the Corporation

THOMAS EDWARD BLACKWELL, Ph.B., M.S.
Comptroller and Business Manager

FRANCES AGNES CLESSE, B.C.S. First Assistant Treasurer

WALLACE GIBSON BARRY, A.M. Purchasing Agent

JOHN HENRY ERNEST, M.S.B.A. Resident Auditor

ANN DUEKER. Second Assistant Treasurer

MAY EVA DENNIS, A.B. Manager, The University Stores

ROSE FALLENSTEIN. Manager, McMillan Hall and Cafeterias

OTHER OFFICERS OF THE UNIVERSITY

WINTHROP HOLT CHENERY, Ph.D. Librarian

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

MAUDE MCFARLAND HENNESSEY
Assistant Librarian (School of Medicine Library)

HELEN KAISER. Assistant Registrar (School of Medicine)

FRANK HENRY EWERHARDT, M.D.
Director of Physical Education and University Health Service

PHILO STEVENSON, A.B. Alumni Representative

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

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

MORRIS BOORSTIN. Superintendent, Buildings and Grounds

HARRY JOSEPH STIEBEL. Chief Engineer

DONALD MORRISON. Acting Superintendent, Buildings and Grounds

CALVIN RINGGENBERG, M.MUS., A.A. G. O.
Organist and Director of University Choir

UNIVERSITY BOARDS

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Otto Heller. Chairman and General Editor

Raymond Floyd Howes. Editor of the Record

George William Lamke. Editor of the Catalogues

LeRoy McMaster

William Roy Mackenzie

Winthrop Holt Chenery

Orval Bennett

Richard Jente

} Editors of the Studies

1 Died, December 26, 1935.
OFFICERS AND COMMITTEES OF THE FACULTY OF THE SCHOOL OF MEDICINE

EXECUTIVE FACULTY

GEORGE REEVES THROOP, Ph.D., LL.D., Bridge Chancellor
W. MCKIM MARriott, M.D., Dean

JOSEPH ERLANGER, M.D.
PHILIP A. SHAFFER, Ph.D.
ROBERT J. TERRY, M.D.
LOUIS H. BURLINGHAM, M.D.
EVARTS A. GRAHAM, M.D.
DAVID P. BARR, M.D.
LEO LOEB, M.D.
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EDMUND V. COWDRY, Ph.D.
JACQUES J. BRONFENBRENNER, Ph.D., Dr.P.H.
CARL F. CORI, M.D.
LAWRENCE T. POST, M.D.
JOHN V. LAWRENCE, M.D.

GENERAL FACULTY

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

HUGH McCULLOCH, M.D., Secretary of General Faculty

STANDING COMMITTEES

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

LIBRARY
Dr. Loeb (Chairman), Drs. Alexander, Seelig.

BARNES HOSPITAL
Dr. Burlingham (Chairman), Drs. Barr, Graham, Loeb, Marriott, Dean, Schwarz, Post.

ST. LOUIS CHILDREN’S HOSPITAL
Dr. Marriott (Chairman), Drs. Graham, Dean, Miss Claiborne.

ST. LOUIS MATERNITY HOSPITAL
Dr. Schwarz (Chairman), Drs. Graham, Marriott, Mrs. Keith.

EDWARD MALLINCKRODT INSTITUTE OF RADIOLOGY
Dr. Moore (Chairman), Drs. Graham, Shaffer, Marriott, Barr, Terry, Hughes, Erlanger.

MCMILLAN HOSPITAL AND OSCAR JOHNSON INSTITUTE
Dr. Marriott (Chairman), Drs. Barr, Dean, Post, Woodruff, Lawrence, Lyman.

FACULTY REPRESENTATIVE TO THE BARNES HOSPITAL BOARD
Dr. Graham.

1 The Dean is ex officio a member of all standing committees.
WASHINGTON UNIVERSITY CLINICS
Dr. Barr (Chairman), Drs. Fisher, Graham, Marriott, Schwarz, Burlingham, Dean, Lawrence, Post, Clopton, Lohr, Misses Baker, Ingram.

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

ADMISSIONS AND PROMOTIONS
Dr. Marriott (Chairman), Drs. Shaffer, Graham, Dean, Cowdry.

LOANS AND SCHOLARSHIPS
Dr. Lawrence (Chairman), Dr. Shaffer, Mr. Parker.

DEPARTMENT OF SOCIAL SERVICE
Dr. Barr (Chairman), Drs. Alexander, Schwarz, Cooke, Lawrence, Burlingham, Cole, Mrs. Holland, Miss Baker, Mrs. Catlin, Mr. Van Scholack.

ST. LOUIS CITY HOSPITAL
Dr. Dean (Chairman), Dr. Womack.

TRACHOMA RESEARCH
Dr. Julianelle (Chairman), Drs. Cowdry, Bronfenbrenner, Marriott, Post.
### DEGREES CONFERRED

The degree of Doctor of Medicine was conferred upon the following, June 11, 1935:

<table>
<thead>
<tr>
<th>Name</th>
<th>Internship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abney, Mary Caroline, A.B., B.S. (Cum Laude)</td>
<td>Hospital of Woman's Medical College, Philadelphia, Pennsylvania</td>
</tr>
<tr>
<td>Allison, Lester Fischer, A.B.</td>
<td>St. Louis County Hospital, Clayton, Missouri</td>
</tr>
<tr>
<td>Ames, Richard Howell</td>
<td>Southern Pacific Hospital, San Francisco, California</td>
</tr>
<tr>
<td>Anlin, Kenneth Miller, A.B.</td>
<td>De Paul Hospital</td>
</tr>
<tr>
<td>Barnett, Floyd Aaron, A.B., B.S.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Belknap, Frank Kelsey, B.S.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Berman, William, A.B.</td>
<td>Jewish Hospital</td>
</tr>
<tr>
<td>Bishop, Don L., A.B.</td>
<td>University of Chicago Clinic, Chicago, Illinois</td>
</tr>
<tr>
<td>Bortnick, Arthur Robert</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Bradford, Bert, Jr., A.B., B.S.</td>
<td>University Hospitals, Cleveland, Ohio</td>
</tr>
<tr>
<td>Brown, Walter Earl, Jr., B.S.</td>
<td>Kansas City General Hospital, Kansas City, Missouri</td>
</tr>
<tr>
<td>Budke, Robert Julius</td>
<td>Missouri Baptist Hospital</td>
</tr>
<tr>
<td>Bullington, Bert Montell (Cum Laude)</td>
<td>Johns Hopkins Hospital, Baltimore, Maryland</td>
</tr>
<tr>
<td>Carliss, Daniel George</td>
<td>Deaconess Hospital</td>
</tr>
<tr>
<td>Caruso, Paul Felix, B.S.</td>
<td>Hackensack Hospital, Hackensack, New Jersey</td>
</tr>
<tr>
<td>Conrad, Raymond Clifford, A.B., B.S.</td>
<td>St. Anthony's Hospital, Oklahoma City, Oklahoma</td>
</tr>
<tr>
<td>Crigler, Ralph Ewing, B.S.</td>
<td>St. Luke's Hospital</td>
</tr>
<tr>
<td>Downing, Sam William, Jr., A.B., B.S.</td>
<td>St. Joseph's Hospital, Denver, Colorado</td>
</tr>
<tr>
<td>Echternacht, Arthur Paul, A.B.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Eschenbrenner, Allen Bernard</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>Farrington, Charles Temple, A.B., B.S.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Fisher, Wilbur Graham, A.B.</td>
<td>Grant Hospital, Columbus, Ohio</td>
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<tr>
<td>Finkle, Israel Jerome, A.B.</td>
<td>Jewish Hospital</td>
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<tr>
<td>Fleishman, Alfred, B.S.</td>
<td>Jewish Hospital</td>
</tr>
<tr>
<td>Glueck, Roland, A.B.</td>
<td>Bushwick Hospital, Brooklyn, New York</td>
</tr>
<tr>
<td>Goldenberg, Max, B.S.</td>
<td>Jewish Hospital</td>
</tr>
<tr>
<td>Graul, Elmer George, B.S. (Cum Laude)</td>
<td>Barnes Hospital</td>
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<tr>
<td>Growdon, John Arthur, B.S.</td>
<td>Kansas City General Hospital, Kansas City, Missouri</td>
</tr>
<tr>
<td>Haffner, Heinz, B.S. (Cum Laude)</td>
<td>New York Hospital, New York, New York</td>
</tr>
<tr>
<td>Hammers, Carl Henry, A.B.</td>
<td>Mercy Hospital, Chicago, Illinois</td>
</tr>
<tr>
<td>Harris, Alfred William</td>
<td>St. Paul's Hospital, Dallas, Texas</td>
</tr>
<tr>
<td>Hartman, Paul Uley, A.B.</td>
<td>Los Angeles County Hospital, Los Angeles, California</td>
</tr>
<tr>
<td>Herrod, James Henry, A.B.</td>
<td>St. Joseph's Hospital, Kansas City, Missouri</td>
</tr>
<tr>
<td>Hoagland, Charles Lee, B.S. (Cum Laude)</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>Hutto, Herman, A.B.</td>
<td>Missouri Baptist Hospital</td>
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<tr>
<td>Jensen, Nathan Kenneth (Cum Laude)</td>
<td>Barnes Hospital</td>
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<tr>
<td>Johnson, Norman Martin, A.B.</td>
<td>St. Louis City Hospital</td>
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<tr>
<td>Jones, Augustin, A.R.</td>
<td>Johns Hopkins Hospital, Baltimore, Maryland</td>
</tr>
<tr>
<td>Jones, John Ben, B.S.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Katzfeld, Jacob, B.S.</td>
<td>Jewish Memorial Hospital, New York, New York</td>
</tr>
<tr>
<td>Kellogg, Pearson Cameron, A.B.</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>Kenmore, Bruce Delozier, A.B.</td>
<td>St. Luke's Hospital</td>
</tr>
<tr>
<td>Kimes, Ira David, A.B.</td>
<td>De Paul Hospital</td>
</tr>
<tr>
<td>King, Robert Victor, A.B., B.S.</td>
<td>Fitzsimmons General Hospital, Denver, Colorado</td>
</tr>
<tr>
<td>Klamer, Paul, B.S.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Kranse, Albert Henry, A.B., B.S. (Cum Laude)</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Lamberth, Wade Camdon, B.S.</td>
<td>St. Luke's Hospital</td>
</tr>
<tr>
<td>Lane, Henry John, A.B.</td>
<td>San Francisco Hospital, San Francisco, California</td>
</tr>
<tr>
<td>Lanksam, Charles Lewis, B.S., St. Anthony's Hospital, Oklahoma City, Oklahoma</td>
<td></td>
</tr>
<tr>
<td>Langston, Walter Roland, B.S., B.S. in Med.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Larson, Kenneth Victor, B.S.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Loeffler, Ellen Shattuck, A.B.</td>
<td>Oklahoma University Hospital, Oklahoma City, Oklahoma</td>
</tr>
<tr>
<td>Martin, Bruce Carson (Cum Laude)</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>Massie, Edward, A.B. (Cum Laude)</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>Maughn, Sydney Brown, A.B.</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>McAdam, Charles Rush, A.B.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>McArtor, Thomas Roeoe, B.S., B.S. in Med.</td>
<td>St. Luke's Hospital</td>
</tr>
<tr>
<td>Mefford, Richard Harry, A.B.</td>
<td>Cincinnati General Hospital, Cincinnati, Ohio</td>
</tr>
</tbody>
</table>
The degree of Bachelor of Science in Medical Science was conferred upon the following, June 11, 1935:

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fleishman, Alfred</td>
<td>Granite City, Illinois</td>
</tr>
<tr>
<td>Graul, Elmer George</td>
<td>St. Louis, Missouri</td>
</tr>
<tr>
<td>Hoagland, Charles Lee</td>
<td>Carthage, Missouri</td>
</tr>
<tr>
<td>Needle, Joseph Herman</td>
<td>New Athens, Ill.</td>
</tr>
<tr>
<td>Rothman, David</td>
<td>St. Louis, Missouri</td>
</tr>
<tr>
<td>Swinney, Robert Harold</td>
<td>Granite City, Illinois</td>
</tr>
<tr>
<td>Wiesman, Irvin</td>
<td>Jewish Hospital</td>
</tr>
<tr>
<td></td>
<td>St. Luke’s Hospital</td>
</tr>
<tr>
<td></td>
<td>St. Paul’s Hospital, Dallas, Texas</td>
</tr>
<tr>
<td></td>
<td>Presbyterian Hospital, New York, New York</td>
</tr>
</tbody>
</table>

PRIZES AWARDED AT COMENCEMENT
June 11, 1935

GILL PRIZE IN PEDIATRICS
Ellen Morse Shattuck Loeffel, A.B.
Edward Massie, A.B.

GILL PRIZE IN ANATOMY
Joe Marion Parker, A.B., M.S.

ALPHA OMEGA ALPHA PRIZE
Robert Harold Swinney
HISTORICAL STATEMENT†

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 St. Louis Medical College, founded in 1842, was admitted as a department of Washington University in 1891. In 1899 the Missouri Medical College, which had been founded in 1840, was united with the St. Louis Medical College to form the Medical School of Washington University.

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

† For a complete historical statement of all departments of the University, see catalogue of the College of Liberal Arts.
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 Research Institute, and the Edward Mallinckrodt Institute of Radiology. The McMillan Eye, Ear, Nose and Throat Hospital, the Oscar Johnson Institute and the Edward Mallinckrodt Institute of Radiology are owned by the University. The Barnes Hospital, the St. Louis Children’s Hospital and the St. Louis Maternity Hospital 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.

CLINICAL FACILITIES

The affiliation of the Barnes Hospital, the St. Louis Children’s Hospital, the St. Louis Maternity Hospital, the McMillan Eye, Ear, Nose and Throat Hospital, and the Oscar Johnson Institute, with the 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 Clinics conducted by the University, which serve as the Out-Patient Department of the hospitals. 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 Washington University School of Medicine has assumed the responsibility for the professional care of one-third of the patients in the two general hospitals conducted by the City of St. Louis. From 350 to 450 additional beds are thus made available.

The Washington University Clinics function as the out-patient departments of all the hospitals in the University group. The Clinics are housed in the basement and first floors of one of the medical school buildings and of the McMillan Hospital. The Heads of the clinical departments in the School of Medicine direct the corresponding departments in the Clinics.

LIBRARY OF THE SCHOOL OF MEDICINE

The Library is housed in one of the buildings of the School of Medicine and contains approximately 50,000 bound volumes and receives about 500 of the most important medical periodicals. The Library has been enriched by the acquisition of a number of private collections on medical history and on the various branches of clinical medicine.

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.
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 April 1 of the year during which admission is sought. Applicants will be required to take the aptitude test of the Association of American Medical Colleges, except where specifically excused by the school. An applicant acceptable to the faculty is required to make a deposit of fifty dollars, which shall be in the hands of the Registrar within 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, \( ^1 \) 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 from acceptable colleges who meet the minimum subject requirements mentioned above, but who have completed less than four years of college work, may be admitted if they have demonstrated exceptional

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

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

Students having less than this credit may meet the requirement by passing an examination in French or German which will be given at the School of Medicine prior to registration.
aptitude, for the study of medicine as shown by high scholastic standing, by high scores on the medical aptitude test, and by the estimates of individual instructors.

Students accepted on this basis who present a total of not less than 90 semester hours, may receive the degree of Bachelor of Science in Medical Science under certain conditions (see page 41)

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

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

**ENGLISH.** Two years of English covering composition and rhetoric.

**GERMAN OR FRENCH.** It is highly desirable, 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 pos-
sible, to add other courses in chemistry, particularly physical chemistry, to those previously mentioned.

Mathematics should be included as early as possible among the courses selected because it furnishes concepts fundamental to the other sciences. The necessary mathematical experience can be gained in a college course in mathematical analysis, supplemented by one in the elementary principles of the calculus.

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

Formal application blanks will be furnished upon request. After supplying all information called for therein, the applicant should return the blanks and, in addition, should request the college which he has attended to send directly to the Registrar a statement of honorable dismissal, and complete official transcripts of high school and college credits, including the names and dates of all courses in which he has been enrolled, with the grades and credit received in each course. To aid in judging the fitness of an applicant, personal letters to the Dean from the student's science instructors, giving estimates of his ability, character, and personality, should also be submitted.

ADMISSION TO ADVANCED STANDING

Applications for advanced standing will be considered only insofar as there are vacancies in the advanced classes. Applications for advanced standing should be filed at as early a date as possible, and under all circumstances before March 1 of the year during which admission is sought. Only those students who have unconditional standing in the medical schools from which they seek to be accredited will be accepted for admission to advanced classes. An applicant acceptable to the faculty is required to make a deposit of fifty dollars, which shall be in the hands of the Registrar within 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) in doubtful cases the student may be required to pass an examination in any of the subjects for which credit is sought. The applicant must have studied as a matriculated medical student in an acceptable medical school for a period of time at least equal to that already spent by the class to which admission is sought.

(a) Students who have received from an approved medical school credit for courses equivalent to those of the first year of this School in anatomy, chemistry, and physiology may be admitted to the second year class without examination, but at the discretion of instructors, may be examined in these subjects at the end of the second year. (b) Students who have received from an approved medical school 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 page 74.)

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, 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 major courses, 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 major subjects.

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 DEGREES

DOCTOR OF MEDICINE

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

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

BACHELOR OF SCIENCE IN MEDICAL SCIENCE

Students who present a total of not less than 90 semester hours for admission may receive the degree of Bachelor of Science in Medical Science after satisfactory completion of all required courses of the first and second years in the School of Medicine, and after the satisfactory conduct of an investigation in one of the medical sciences, and the preparation of an acceptable thesis which must be presented to the head of the department concerned by May 1st of the year the student is a candidate for the degree. Compliance with the last require-
ments for this degree will not usually be attained before the end of the third or fourth year.

HOSPITAL APPOINTMENTS

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

Internships in the hospitals affiliated with Washington University are available to those having had a consistently high record throughout the medical course. Appointments are made by the Intern Committee of the School during the month of December, each year.

PRIZES

Two George F. Gill Prizes are offered to the students of the School, viz.:

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

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

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

LEO LOEB LECTURESHP

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

FELLOWSHIPS, STUDENT ASSISTANTSHIPS, AND SCHOLARSHIPS

A Surgical Fellowship has been established in the Department of Surgery for special neurological work. The income of this fellowship is $1,200.00 per year. Candidates for this fellowship must be graduates in medicine. Applicants who have had one year’s internship are preferred.
STUDENT ASSISTANTSHIPS are open in a number of departments in the school. Information concerning these can be obtained from the heads of the departments concerned.

The GEORGE F. GILL SCHOLARSHIP, instituted in memory of the late Dr. George F. Gill, Clinical Professor of Pediatrics, entitles the holder to remission of the tuition fee to the amount of the scholarship, namely, $100.00. Applications should be filed with the Dean.

THE ALUMNI SCHOLARSHIP AWARD of $100.00 to be applied on the payment of the tuition fee is given for excellence in work during the scholastic year on the recommendation of the Committee on Loans and Scholarships of the School of Medicine and the President of the Medical Alumni Association. Applications should be filed with the Dean.

The DR. JOHN B. SHAPLEIGH SCHOLARSHIP. Through the bequest of the late Dr. John B. Shapleigh, supplemented by contributions of Mrs. John B. Shapleigh and Miss Margaret Shapleigh, the annual income from $8,000.00 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 $250,000.00 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. Loans are available to certain students in the upper three classes of the medical school who are considered deserving of loans on the basis of financial need, scholastic attainment and character. The loans are granted by the Chancellor on the recommendation of the Committee on Loans and Scholarships and the Dean of the School of Medicine.

The ELIZA McMILLAN STUDENT AID FUND. From the bequest of the late Mrs. Eliza McMillan, the annual income on $7,000.00 provides a scholarship for a deserving woman student in the School of Medicine. Application 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 Joseph H. Roblee Scholarships. Through the gift of Mrs. Florence A. Roblee (Mrs. Joseph H. Roblee), the income from the Joseph H. Roblee Scholarship Endowment Fund of $12,000.00 is to be used to maintain two scholarships annually. They are awarded by the Chancellor to qualified, worthy and deserving students in any division of the University.

REGISTRATION

Registration for the first half year, 1936-37, is scheduled for Tuesday, September 22, and Wednesday, September 23, 1936; for the second half year, Monday, February 1, and Tuesday, February 2, 1937. Hours for registration are 9 to 11:30 and 2 to 5 daily.

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

FEES AND EXPENSES

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

All fees and charges are payable in advance at the office of the Treasurer in Robert S. Brookings Hall, or at the office of the Registrar of the School of Medicine. No rebate of the tuition fee will be made for absence, whether such absence occurs at the beginning, middle, or end of the semester, except in cases of prolonged illness certified to by a physician. In such cases a partial refund may be made, which will not ex-
ceed one-half of the unexpired balance of the tuition for the term.
Checks should be made payable to Washington University.

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

TUITION FEE
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, clinics and hospitals. Any balance of this deposit will be returned at the end of each year. At any time the amount of breakage exceeds the amount of deposit an additional deposit will be called for. There are no other laboratory fees.

UNIVERSITY HEALTH SERVICE
A fee of $4.00 annually is charged each student for medical health service.
A fee of $10.00 a year, payable in two instalments, one at the beginning of each semester, is collected from each student enrolled in the School of Medicine. This fee, which is for the support of athletics and several other student activities, is under the control of the Board of Student Finances, and provides free admission to all athletic events and participation in certain other student activities. Students who have a Bachelor's degree are exempt from payment of the fee, but are given the privilege of paying it on the same basis as other students.

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

MICROSCOPES AND DIAGNOSTIC INSTRUMENTS
Each student entering the Freshman class is required to possess a standard microscope equipped with a sub-stage light.
All students are required to provide themselves with stethoscopes, ophthalmoscopes, otoscopes, hemocytometers, percussion hammers, tape measures, flashlights, head mirrors, and skin pencils as the need for them arises.

It is suggested that supplies and books be purchased 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>Cost</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>$4.00</td>
</tr>
<tr>
<td>Books and Instruments (from $50.00 to 100.00)</td>
<td>$50.00 to 100.00</td>
</tr>
<tr>
<td>Room and Board (from $6.00 to $15.00 a week)</td>
<td>$210.00 to 500.00</td>
</tr>
</tbody>
</table>

Total, excluding clothes and incidentals: $679.00 to $1,019.00

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 $85.00 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

1 This figure does not include microscope.
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 p. 36, the student on entering the School must have 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 of 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 six to eight 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 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 may 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 statements of elective courses, see page 88.

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, work in the clinics, or other elective work during the summer months. Students are encouraged to make use of the opportunities offered during the summer months which are equal to those of the school year.
### First Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissection</td>
<td>395</td>
</tr>
<tr>
<td>Histology</td>
<td>201</td>
</tr>
<tr>
<td>Neuroanatomy</td>
<td>100</td>
</tr>
<tr>
<td>Biological Chemistry</td>
<td>264</td>
</tr>
<tr>
<td>Physiology</td>
<td>64</td>
</tr>
</tbody>
</table>

**Total** 1024

### Second Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physiology</td>
<td>184</td>
</tr>
<tr>
<td>Bacteriology</td>
<td>168</td>
</tr>
<tr>
<td>Immunology</td>
<td>44</td>
</tr>
<tr>
<td>Pathology</td>
<td>311</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>110</td>
</tr>
<tr>
<td>Medicine</td>
<td>209</td>
</tr>
<tr>
<td>Surgery</td>
<td>55</td>
</tr>
</tbody>
</table>

**Total** 1081

### Third Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pathology</td>
<td>55</td>
</tr>
<tr>
<td>Medicine</td>
<td>231</td>
</tr>
<tr>
<td>Neur. &amp; Psychiatry</td>
<td>110</td>
</tr>
<tr>
<td>Dermatology</td>
<td>11</td>
</tr>
<tr>
<td>Surgery</td>
<td>291</td>
</tr>
<tr>
<td>Obstetrics and Gynecology</td>
<td>110</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>11</td>
</tr>
<tr>
<td>Oto-Laryngology</td>
<td>22</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>88</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>22</td>
</tr>
<tr>
<td>Public Health</td>
<td>33</td>
</tr>
<tr>
<td>Medical Jurisprudence</td>
<td>11</td>
</tr>
<tr>
<td>Stomatology</td>
<td>11</td>
</tr>
<tr>
<td>Anatomy</td>
<td>22</td>
</tr>
</tbody>
</table>

**Total** 1028

### Fourth Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pathology</td>
<td>22</td>
</tr>
<tr>
<td>Medicine</td>
<td>297</td>
</tr>
<tr>
<td>Neurology</td>
<td>55</td>
</tr>
<tr>
<td>Surgery</td>
<td>281</td>
</tr>
<tr>
<td>Ostetrics and Gynecology</td>
<td>176²</td>
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<tr>
<td>Pediatrics</td>
<td>66</td>
</tr>
<tr>
<td>Ophthalmoscopy</td>
<td>12</td>
</tr>
<tr>
<td>Electives</td>
<td>300</td>
</tr>
</tbody>
</table>

**Total** 1159

² In addition, each student is required to attend twelve deliveries.
COURSES OF INSTRUCTION
ANATOMY

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

PROFESSORS TERRY, COWDRY; ASSOCIATE PROFESSORS TROTTER, SCOTT, O'LEARY; ASSISTANT PROFESSORS WILLIAMS, SEIB; INSTRUCTORS SLOCUMB, CHARLES; STUDENT ASSISTANTS RECTOR, BINGHAM, MILLER

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. Anatomy of the living, clinical and autopsy demonstrations and the study of X-ray films are included in the course. 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, Professor 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 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)

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)

THIRD YEAR

4. ANATOMICAL DEMONSTRATIONS. This course provides a review of regions and structures at the time when students are entering upon their clinical work and is intended to stimulate using their preclinical foundation in this work. Demonstrations two hours a week during the second trimester. 22 hours. (Dr. Charles)

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 Gross Anatomy and Physical Anthropology. 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.
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 recitations five hours, and laboratory eleven hours a week. Lectures and recitations 81 hours, laboratory 183 hours.

(Professor Shaffer, Professor Ronzoni-Bishop, Professor Urban, Professor Wendel, Dr. Preisler)

ELECTIVE COURSES

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

(4b) Methods of Analysis. (Professor Shaffer)

(4c) Respiratory Metabolism. (Professor Ronzoni-Bishop)

(4d) Physical Chemistry, as applied to biology. (Professor 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

PROFESSOR ERLANGER; ASSOCIATE PROFESSORS H. LESTER WHITE, GILSON; INSTRUCTORS PEUGNET, EDGAR A. BLAIR

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 the anatomy, embryology, histology, neurology and biological chemistry of topics before their physiological aspects 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, Dr. Peugnet, Mr. Blair)

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 elucidate 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 Dr. Peugnet, Mr. Blair)

ELECTIVE COURSES

4. Demonstration Methods. This course is designed primarily for students preparing to teach physiology, and who may desire a wider experience in experimental physiology than can be gained in 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 jointly by the Departments of Biological Chemistry, Pharmacology, and Physiology, discusses papers of physiological interest appearing in the current journals. This course is open to properly prepared students only. Once a week throughout the year.

BACTERIOLOGY AND IMMUNOLOGY

Professor Bronfenbrenner; Assistant Professor Donald Hetler; Instructors Varney, Tsuchiya; Assistants Mehrten, Hershey, Harford; Student Assistants Gill, Silverglade, Sulkin

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, Professor Hetler, Dr. 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, Professor Hetler, Dr. Varney)

ELECTIVE COURSE

Research. The facilities of the laboratory are open to those properly qualified for research in Bacteriology and Immunology.

(Professor Bronfenbrenner and Staff)

PUBLIC HEALTH

Professor Bronfenbrenner; Assistant Professor Donald Hetler; Instructors Varney, Tsuchiya; Lecturers Bleyer, Willett

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 during the first trimester and twice a week during the second trimester. 33 hours.

(Professor Bronfenbrenner and Staff)

ELECTIVE COURSE

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 meets on Friday afternoons during the second trimester.

(Professor Hetler, Dr. Varney)

PATHOLOGY

Edward Mallinckroots Professor Loeb; Associate Professor McCordock; Assistant Professors Siebert, Margaret G. Smith; Lecturer Pote; Assistants Saxton, Eschenbrenner, Schmeckebier, Hoagland; Student Assistant Mason

SECOND YEAR

1. PATHOLOGY. Prerequisite courses for pathology are represented by the required work in anatomy, biological chem-

1 Resigned September 1, 1935.
istry 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. Pathological histology will be studied by means of sections specially prepared which are loaned; students are urged to describe and to draw the lesions they find. Some familiarity with the literature of pathology will be obtained by reports upon special topics made by members of the class during one hour each week in the second trimester. Lectures and laboratory work, eleven hours a week in the second trimester and thirteen hours in the third trimester. 256 hours.

(Professor Loeb, Professor McCordock, Professor Siebert, Professor Smith)

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

(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 Loeb, 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.
(Professor Loeb)

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

THE EDWARD MALLINCKRODT DEPARTMENT OF PHARMACOLOGY

PROFESSOR CARL F. CORI; ASSISTANT PROFESSOR HELEN TREDWAY GRAHAM; INSTRUCTOR ROBERT E. FISHER; ASSISTANT A. DE M. WELCH; RESEARCH FELLOW GERTY T. CORI

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 Cori, Professor Graham)

(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 Cori, Professor Graham)

ELECTIVE COURSES

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

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

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

THE JOHN T. MILLIKEN DEPARTMENT OF MEDICINE

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

BUSCH PROFESSOR BARR; PROFESSOR ALBERT E. TAUSSIG; ASSOCIATE PROFESSORS ELMER, H. L. ALEXANDER, SINGER, OLMSTED, LUTEN, LARIMORE; ASSISTANT PROFESSORS EWERHARDT, BULGER, LAWRENCE, THOMPSON, KOUNTZ; CHEMIST WENDEL; INSTRUCTORS BAUMGARTEN, COOK, SALE, LOUIS H. HEMPELMANN, FISCHEL, GORHAM, EYERMANN, STRAUSS, GRANT, CAMPBELL, CADY, ALFRED GOLDMAN, LIGGITT, DUDEN, JENSEN, BREDECK, DAY, HEIDEMAN, RUSK, STRoud, ATTken, JEAN, MacBryde, FINDLEY, BROMBERG; ASSISTANTS GAY, ABEL, BECKE, COHEN, SENTuria, WISSE, RICHMAN, GILLILAND, GLASSBERG, GLaze, MEHRTEN, MILTON SMith, LEE B. HARRISON, O’Byrne, BARGER, CANNADy, GOTTLIEB, MILLER, NEwMAN, PLUMPE, SHIRLEY, SKILLING, SEIBEL, HENDERLITE, CHARLies, Harford, BARRET TAUSSIG, MANSBACHER, Myers, Goodman, Jekel, BAuRELeIN', WILson', ORGEL', Beam', STABHLE', KuttNER'; STUDENT ASSISTANT RAY D. WILLIAMS

SECOND YEAR

1. ELEMENTARY MEDICINE. (Introductory Clinic.) The observation and interpretation of symptoms and signs in ward and clinic patients with special reference to pathological physiology and anatomy and their relation to diagnosis. Two hours a week during the second and third trimesters. 44 hours.

(Professor Barr, Professor Schwab, Professor Bulger, Dr. Jensen, Dr. MacBryde)

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 and Assistants)

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. Aitken and Assistants)

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 cases in the hospital and clinics. Considerable

1 Effective January 1, 1936.
2 Effective March 4, 1936.
reading is required outside of laboratory hours. Eight hours a week during the third trimester of the second year. 88 hours. (Professor Thompson, Dr. Bredeck, and Assistants)

**THIRD YEAR**

6. **MEDICINE.** One-third of the junior class is assigned to the Department of Medicine during each trimester. This group is assigned to the wards of Barnes Hospital where students are given practice and instruction in history taking, physical examination and elementary diagnosis. There is also special instruction in metabolic diseases, in cardiology in diseases of the gastro-intestinal tract and in laboratory technique. Two hours five days a week for one trimester. 110 hours. (Professor Barr and Staff)

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

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

9. **MEDICINE RECITATION.** The class is divided into groups for discussion and recitation upon reading assigned in a 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. Goldman)

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

**FOURTH YEAR**

10. **MEDICINE.** The course is subdivided as follows:

(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 Clinics. Rotation is arranged so that each student has experience in all services.
The students in the clinics 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 clinic 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. 231 hours.

(Professor Barr, Professor Alexander and Staff)

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

(Professor Barr, Professor Alexander, Professor Taussig)

(c) A weekly clinic in which a series of subjects, such as gastro-intestinal 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)

(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)

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**

*Professor Schwab; Assistant Professor Jones; Instructors Carr, Kubitschek, Beckmann, Satterfield; Assistants Kendall, Tureen*

**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 systems, 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 semester. 22 hours. (Dr. Tureen)

   (c) Neurological Clinic. The diagnosis and treatment of neuroses from the standpoint of psycho-biology. Case material and clinic patients are used for purposes of discussion. Two hours a week for one trimester. 22 hours. (Dr. Satterfield)

2. **CLINICAL PSYCHIATRY.** Psychoses and neuroses are discussed with case presentation at the City Sanitarium. Neuro-

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1 On leave of absence 1935-36.
roses are presented in the third trimester using illustrative case histories. Two hours a week during the first and third trimesters. 44 hours. (Dr. Jones)

FOURTH YEAR

3. NEUROLOGY.

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

(b) Neurological Conference. A series of clinical demonstrations before the whole class in which all available types of nervous and mental diseases found in the hospital are discussed. One hour a week for three trimesters. 33 hours. (Professor Schwab)

ELECTIVE COURSE

5. Correlation of medical and neurological problems with clinical demonstrations and case reports. One hour per week during the third trimester to senior students. 11 hours. (Dr. Carr)

DERMATOLOGY

Professor Martin F. Engman; Assistant Professor Weiss; Instructors Conrad, Coleman, Lane, Martin F. Engman, Jr.; Assistants Eskeles, Kile

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 Clinics, in which the student examines patients and is instructed in the diagnosis and treatment of diseases of the skin.

1 Effective November 13, 1935.
Ten hours a week for one-third trimester. 34 hours. Other hours by arrangement.

(Professor Engman, Professor Weiss, Dr. Conrad, Dr. Coleman, Dr. Lane, Dr. Engman, Jr.)

THE MARY CULVER DEPARTMENT OF SURGERY

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

Bixby Professor Evarts A. Graham; Professors Sachs, Seelig, Caulk, VIlray P. Blair, Clopton, Key; Associate Professor Copher; Assistant Professors Willard Bartlett, Arthur O. Fisher, Stone, Allen, Rose, Cole, Olch¹, Elman, Heinbecker, Crego, J. Barrett Brown; Instructors Rainey, J. Edgar Stewart, Theodore P. Brookes, Jostes, Klemme, Womack, Deakin, Sanford, Wilhelm; Henry S. Brookes, Jr., Probstien; Assistants Walton, Keyes, Robert Bartlett, Byars, Pittman, Cannon, Furlow, Richardson, Robert S. Smith, Patton, Wilson, Cabitt², Thieme, Bricker, Reynolds, W. R. Smith, Rowlette; Fellows Samuel R. Snodgrass, Tarlov, Thompson, Blades

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

¹ Resigned January 1, 1936.
² Resigned September 15, 1935.
students take histories and apply dressings and bandages. 110 hours.

(Professor Sachs, Professor Copher, Professor Cole and Others)

(b) SURGICAL RECITATIONS. A weekly discussion during the first and second trimesters on assigned surgical reading. The principles of surgery and many of the more common surgical conditions are considered extensively. Mimeographed outlines are used to guide the student and the standard text books together with selected articles from the recent literature are freely consulted. The class is divided into two sections for this course. 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 clinic will be used in this course. One hour weekly during the third trimester. This course is supplemental to the experience in fracture work which the student will obtain in the following year while acting as a clinical clerk and at the student conferences at the City Hospital. 11 hours.

(Professor Key, Professor Copher and Dr. Stewart)

(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 Fisher and Dr. Womack)

(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, illustrated by patients, 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 micro-
scopically. Case histories are presented with the specimens.
Each student is given a collection of about one hundred slides
illustrating the common surgical pathological disorders. 66
hours.  
(Dr. Womack, Dr. Walton)

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. Conferences on selected patients are held 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 do some of the sur-
gical dressings. Students who are especially interested may
apply and receive instruction in practical anesthesia. Other-
wise the practical instruction in this subject is left to the in-
terne year. The students also attend autopsies performed on
the cases studied by them and are required to be present at
the weekly pathological conference at which these cases are dis-
cussed. (See Pathology 2). One day each week the group
spends the period from 9 a. m. to 12 m. at the St. Louis Chil-
dren'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)

6. ORTHOPEDIC SURGERY. Instruction is given at the Barnes
Hospital, at the St. Louis Children's Hospital and at the Shrin-
ers' Hospital, as described in course 4 (a). (Professor Key)

ELECTIVE COURSES

5. Genito-Urinary Out Clinic. Elective course. The stu-
dent serves as dresser in the Genito-Urinary Out Clinic six
hours a week for one-third trimester under the same condi-
tions as in Course 2. 22 hours. Other hours by arrangement.
(Professor Caulk and Assistants)
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. Furlow)

10. *Postoperative Care.* Eleven lectures and demonstrations in the third trimester of the fourth year. Both the normal and complicated postoperative developments are discussed.

(Professor Allen)

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

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

13. *Tumor Clinic.* Approved students may attend, without receiving credit, the weekly staff tumor clinic in the Barnes Hospital.

(Professor Copher)

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

(Dr. Womack)

**RADIOLOGY**

**PROFESSOR SHERWOOD MOORE; CONSULTING PHYSICIST HUGHES; ASSOCIATE PROFESSOR LARIMORE; INSTRUCTORS ZINK, SCOTT, ARNESON**

**ELECTIVE COURSE**

*Principles of Roentgenology.* A course of lectures and demonstrations for fourth-year students. Three one-hour periods per week for one-half trimester. 16 hours.

(Professor Moore, Dr. Zink, Dr. Scott)
OPHTHALMOLOGY

PROFESSORS LAWRENCE T. POST, SHAHAN, WIENER; ASSOCIATE PROFESSOR WILLIAM F. HARDY; ASSISTANT PROFESSIONS WOODRUFF, M. HAYWARD POST, JACOBS, SCHWARTZ, LAMB, ALVIS; INSTRUCTORS POOS, JAMES, HILDRETH, BEISBARTH; LECTURER MASON; ASSISTANTS NAPIER, GUERDAN HARDY, HAWKINS, LANGE, CRAWFORD, CALHOUN, MEINBERG, TROWBRIDGE

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 M. H. Post, Dr. Beisbarth)

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 Lawrence Post, Professor Jacobs, Professor Schwartz, Professor Alvis, Dr. Hildreth)

OTO-LARYNGOLOGY

PROFESSORS DEAN, BUNCH; ASSOCIATE PROFESSORS LYMAN, PROETZ; ASSISTANT PROFESSORS ARBUCKLE, ALDEN, KELLEY, HANSEL, HOUN, GUGGENHEIM, MCMAHON, BIRNSER, COSTEN; CHEMIST WENDEL; INSTRUCTORS WENNER, CONE, ROSSLEENE A. HITLER, WOLFF, VOTAW; ASSISTANTS HANSON, FREMUTH, GAGE, GLICK, POTTER, BOEMER, BUHRMESTER, NEMOURS, SCHEERER, PFINGSTEN, STUTZMAN, LLOYD LINTON, JANET ALEXANDER

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. Ten hours a week for one-third trimester. 34 hours. (Professor Dean, Professor Bunch, Professor Lyman, Professor Arbuckle, Professor Proetz, Professor Kelley, Professor Hansel, Dr. Votaw, Dr. Gage, Dr. Potter, Dr. Gliek, Dr. Boemer)

1 Resigned September 30, 1935.
THE SCHOOL OF MEDICINE

OBSTETRICS AND GYNECOLOGY

PROFESSORS OTTO H. SCHWARZ, FREDERICK J. TAUSIG, GELLMORE,
ASSOCIATE PROFESSORS ROYSTON, NEWELL; ASSISTANT PROFESSORS
MCNALLEY, O'KEEFE, PADDOCK, KREBS, T. KENNETH BROWN;
INSTRUCTORS SCHLOSSSTEIN, VAUGHAN, SPIVY, ROBERT J. CROSSEN,
DRABKIN, WEGNER, HOBBS, LIESE, DUDLEY R. SMITH, SOULE,
ARNESON; ASSISTANTS CANEPA, VOGEL, MYRON W. DAVIS, BALAZS,
ROBLEE, ARTZ, MORRIN, SCRIVNER, O'NEILL, FRANCES H. STEWART,
PLANT, WASSERMAN, GIBSON, WULFF, KLEINE, L. E. PATTON, MAX

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 Paddock)

(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, Dr. Hobbs, Dr. Drabkin)

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

(Dr. R. J. Crossen)

(d) Gynecological and Obstetrical Diagnosis (Clinic). One sub-section (one-sixth of the class) works in the Clinic under supervision and receives instruction in pelvic examination. At the same time the other sub-section (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 O. Schwarz, Professor Brown, Professor Krebs, Dr. D. R. Smith, Dr. Wegner, Dr. Davis, Dr. Hobbs, Dr. Liese, Dr. Soule)

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

1 Died January 25, 1936.
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 outpatient 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 Brown, Dr. Wegner, Dr. Hobbs, Dr. Soule)

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

(Professor O. Schwarz, Professor H. Crossen and Associates)

(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 Taussig, Professor McNalley, Professor Royston, Professor Ehrenfest, Professor Brown, Dr. Wegner)

(d) Gynecological Ward and Clinic Work. Sections composed of one-twelfth of the class work in the Gynecological Division of the Barnes Hospital for a period of three weeks. The members of these sections, under guidance of instructors, participate in the entire work. They take histories and make examinations (including those of the laboratory); make ward rounds, and attend the diagnostic and operative clinics. 55 hours.

(Professor O. Schwarz, Professor H. Crossen, Professor Taussig, Professor Newell, Professor Royston, Professor O'Keefe, Dr. R. J. Crossen)

ELECTIVE COURSES

(a) Obstetrical Clinic. An elective course in which a small section of the class receives practical instruction in the pre-
natal clinic eight hours a week for one-third trimester. 27 hours. Other hours by arrangement. This work can also be taken in the summer months. (Dr. D. R. Smith and Staff)

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

THE EDWARD MALLINCKRODT DEPARTMENT OF PEDIATRICS

PROFESSORS MARRIOTT, VEEDER; ASSOCIATE PROFESSORS COOKE, HARTMANN, THEODORE C. HEMPELMANN; ASSISTANT PROFESSOR MCCULLOCH;
INSTRUCTORS BLEYER, PARK J. WHITE, ZENTAY, KUBITSCHEK, RUPE, BAIN, PERLEY, LAWRENCE GOLDMAN; ASSISTANTS LONSWAY, COLGATE, ROHLEFING, MCLOWN, DEUTCH, BAUER, FREDERICK A. JACOBS, LONDE, STANLEY HARRISON

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, Professor Cooke)

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. Bain, Dr. Zentay Dr. Goldman, Dr. Harrison)
4. Pediatric Clinic. A weekly amphitheater clinic or lecture is held throughout the school year. Demonstration of selected cases from the hospital, clinic, or Child Guidance Clinic. Lectures on Child Psychology and behavior problems. 33 hours. (Professor Marriott, Dr. Kubitschek)

5. Clinical and Pathological Conferences. This course is given jointly by the Clinical Departments and the Department of Pathology. Each student is supplied with the clinical histories of the cases coming to autopsy. The pathological material is demonstrated and the cases discussed from the clinical and pathological sides. Approximately one-third of the course is devoted to pediatric cases. (See Pathology 2.)

ELECTIVE COURSES

6. Clinical Clerkships. Students work in the wards two hours each morning and in the Pediatric Out-Patient Department two hours four afternoons a week for three weeks. In the wards the clinical clerks attend general ward rounds twice a week, and are assigned cases for detailed study, which are presented to the group for discussion. They also attend a weekly clinical conference and weekly pathological conference. In the Pediatric Clinic each student takes histories and makes the examination of assigned cases under the supervision of the staff physicians. 60 hours. (Professor Cooke, Professor Hartmann)

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

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

TRACHOMA COMMISSION

ASSOCIATE PROFESSOR JULIANELLE (Chairman of the Commission); INSTRUCTOR R. WENDELL HARRISON; ASSISTANT MORRIS

A Commission for the study of trachoma and allied diseases has been maintained at Washington University since October, 1930. The scientific work of the Commission is supported by a grant from the Commonwealth Fund. The Commission oc-
The School of Medicine occupies laboratories in the Oscar Johnson Institute. Its object is to investigate the nature, cause and treatment of trachoma and the differentiation of trachoma from clinically related diseases. The Trachoma Commission enjoys the advantages of close cooperation with the various departments of the Medical School as well as with the U. S. Trachoma Hospital at Rolla, Missouri, which is under the supervision of Dr. C. E. Rice.
MISCELLANEOUS COURSES

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

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

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

PROFESSIONAL CONDUCT AND MEDICAL ECONOMICS
An elective course in which the following subjects are discussed: the young physician and his problems; group medicine and specialization; ethical relations between physicians; organized medicine; birth control; quackery, fads, and cults; medical finance; industrial and contract practice; "systems" of practice in other countries; health insurance plans. 10 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 two-weeks' review course in Internal Medicine is offered once a year.

SURGERY. A two-weeks' "brushing up" course in Surgery is offered once a year, beginning in April.

OPHTHALMOLOGY AND OTOLARYNGOLOGY. A one-week's course in Ophthalmology and Otolaryngology is offered once a year.

OTOLARYNGOLOGY. A four-weeks' intensive course in Diseases of the Ear, Nose and Throat is offered once a year, beginning in June. The following short courses lasting from three to six days are offered also: The Displacement Method of Sinus Diagnosis and Treatment (April); Allergy as Related to Otolaryngology (August); The Surgical Anatomy of Operative Procedures of Otolaryngology (November).

For full information in regard to these courses, address the Dean, Washington University School of Medicine.
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WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
Schedule of Second Year. Third Trimester

1936-37
## WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

### Schedule of Third Year. First Trimester

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<td>11 to 12</td>
<td>Surgery Recitation</td>
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<td>Surgery 2f</td>
<td>Lecture</td>
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<td>Surgical Pathology</td>
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<td></td>
<td>Ob. and Gyn. 1c</td>
<td>B. and I. 3</td>
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<td>Ob. and Gyn. 1d</td>
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<td>Dietetics</td>
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<td>Clinical Pathological</td>
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## WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
### Schedule of Third Year. Third Trimester 1936-37

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<tr>
<th>HOURS</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
<th>SATURDAY</th>
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<tr>
<td>10 to 11</td>
<td>Group A Surgery 2a</td>
<td>Group A Surgery 2a</td>
<td>Group A Surgery 2a</td>
<td>Group A Surgery 2a</td>
<td>Group A Surgery 2a</td>
<td>Genito-Urinary Surgery Lecture Surgery 2g</td>
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<td>Group B Ob. and Gyn. 1b</td>
<td>Group B Neurology 1c 1/2 Pediatrics 1</td>
<td>Group C Medicine 6</td>
<td>Group B Neurology 1c 1/2 Pediatrics 1</td>
<td>Group B Ob. and Gyn. 1b</td>
<td>Neurology lc 1/2 Pediatrics 1</td>
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<td>Group C Medicine 6</td>
<td>Surgery Clinic Surgery 2e</td>
<td>Dietetics Medicine 8</td>
<td>Surgery Conference Surgery 2f</td>
<td>Psychiatry 2</td>
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<td>Dermatology Lecture Dermatology a</td>
<td>Laryn. &amp; Rhin. Lecture Oto-Laryn. 1</td>
<td>Operative Surgery Surgery 2d</td>
<td>Group B Ob. and Gyn. 1d</td>
<td>Medical</td>
<td>Surgical Pathology Surgery 3</td>
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<td>Stomatology</td>
<td>2 Sections</td>
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<td>1/2 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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<th>THURSDAY</th>
<th>FRIDAY</th>
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<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. 2b Lecture II Trimester</td>
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<td>4 to 5</td>
<td>Clinical Pathological Conference Pathology 2 I &amp; II Trimesters</td>
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¹ Electives.
### Schedule of Fourth Year: Group B, First Trimester; Group C, Second Trimester; Group A, Third Trimester

<table>
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<th>TUESDAY</th>
<th>WEDNESDAY</th>
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<th>FRIDAY</th>
<th>SATURDAY</th>
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<tr>
<td>9 to 12</td>
<td>Surgery 4a. Ward Work, Barnes or St. Louis Children's Hospital.</td>
<td>Surgery 6. Orthopedic Surgery, Barnes or St. Louis Children's Hospital.</td>
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<td>Neurology Clinic Neurology 3b</td>
<td>Surgery Clinic Surgery 4b</td>
<td>Pediatric Clinic Pediatrics 4</td>
<td>Medicine Clinic Medicine 10b</td>
<td>Ob. and Gyn. 2b Lecture II Trimester</td>
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<tr>
<td>4 to 5</td>
<td>Clinical Pathological Conference Pathology 2 I &amp; II Trimesters</td>
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1. Electives.
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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. 2b Lecture II Trimester</td>
<td>Medicine Clinic</td>
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<tr>
<td>Neurology 3b</td>
<td>Surgery 4b</td>
<td>Pediatrics 4</td>
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<td>Medicine 10c</td>
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<td>2 to 4</td>
<td>Section 1. Obstetrics 2c. Ward Work, St. Louis Maternity Hospital. Ophthalmoscopy, Wednesday or Thursday.</td>
<td>Section 2. Group A. Ob. and Gyn. 2d. Four days a week. Group B. Elective Work:* Four days a week.</td>
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<tr>
<td>4 to 5</td>
<td>Clinical Pathological Conference Pathology 2 I &amp; II Trimesters</td>
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* Students electing Pediatrics 6 must take this course during the time that they are assigned to Pediatrics 3, Ward Work.
Opportunity for elective work is offered to the students throughout the course. 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:

Elective courses in any department. Hours to be arranged.
Research in any department. Hours to be arranged.

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 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.)

Oto-Laryngology: 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.)

Pediatrics: Clinical Clerkship. Two hours each morning in the wards and two hours four afternoons a week in the Pediatric Out-Patient Department for one-quarter trimester. 60 hours. (10 a.m. to 12 m. and 2 to 4 p.m.)

Medicine: Diagnosis and Treatment of Diseases of the Digestive Tract. A minimum of five periods of 2 hours each per week for one-third trimester in groups of not more than five. 34 hours. (2 to 4 p.m.)

Medicine: General Medicine Clinic. A minimum of four periods of 2 hours each per week for one-third trimester in groups of not more than three. 27 hours. (2 to 4 p.m.)

Genito-Urinary Surgery: A minimum of three periods of 2 hours each per week for one-third trimester in groups of not more than one-sixth of the class. 22 hours.¹ (10 a.m. to 12 m.)

Orthopedic Surgery: A minimum of three periods each per week for one-third trimester in groups of not more than six. 22 hours.¹ (10 a.m. to 12 m.)

Obstetrics: Pre-Natal Clinic. A minimum of four periods of 2 hours each per week for one-third trimester in groups of not more than four. 27 hours. (2 to 4 p.m.)

¹ Additional hours by arrangement.
Anatomy: Topographical Anatomy. Hours by arrangement.
Medicine: Applied Immunology. Hours by arrangement.
Radiology: Principles of Roentgenology. Three one-hour periods per week for one-half trimester. 16 hours.
Professional Conduct and Medical Economics: Ten one-hour lectures during the first trimester. 10 hours.
Physical Therapeutics: Hours by arrangement.
Neurological Surgery: Eleven one-hour lectures during the first trimester. 11 hours.
Postoperative Care: Eleven one-hour lectures and demonstrations during the third trimester. 11 hours.
Medicine: Allergy. Hours by arrangement.
Medicine: Thoracic Diseases. Hours by arrangement.
Medicine: Night Clinic for the Treatment of Syphilis. A minimum of three periods of 2 hours each per week for one-half trimester. 33 hours.
Medicine: Night Clinic for the Treatment of Neurosyphilis. A minimum of two periods of 2 hours each per week for one trimester in groups of not more than six. 44 hours.
Surgical Pathology: Hours and credit by arrangement.

1 Additional hours by arrangement.
PHYSICIANS ATTENDING GRADUATE COURSES BETWEEN JANUARY 1 AND DECEMBER 31, 1935

Aldrich, Fred N., M.D. Ophthalmology and Oto-laryngology

Alumni, Hugh E., M.D. Surgery

Anderson, Arthur W., M.D. Pediatrics

Anderson, Ronald C., M.D. Surgery

Bailey, William H., M.D. Ophthalmology

Barber, Ira Z., M.D. Ophthalmology and Oto-laryngology

Belue, J. C., M.D. Obstetrics and Gynecology

Brunswick, Ga. Alexander, Hugh E., M.D. Surgery

Beaumont, Tex.

Berkeley, H. L., M.D. Surgery

Columbus, Nebr.

Bixler, Clarence W., M.D. Obstetrics and Gynecology

Erie, Colo.

Blake, Herbert, M.D. Obstetrics and Gynecology

Anderson, S. C.

Booth, Louis G., M.D. Obstetrics and Gynecology

Sheridan, Wyo.

Cheek, W. Carey, M.D. Ophthalmology and Oto-laryngology

Springfield, Mo.

Chiapella, Joseph O., M.D. Oto-laryngology

Coffey, Ralph K., M.D. Surgery

Compton, J. Roy, M.D. Surgery

Anderson, S. C.

Cooper, John C., M.D. Obstetrics and Gynecology

Roanoke Rapids, N. C.

Craigh, Robert E., M.D. Obstetrics and Gynecology

Luna, Wash.

Cunningham, Eric A., M.D. Surgery

Lousiana, Mo.

DeFrancesco, Walter, M.D. Oto-laryngology

Nanticoke, Pa.

Dexter, Herbert E., M.D. Ophthalmology

Basna, India

Dickson, James C., M.D. Oto-laryngology

Houston, Tex.

Diven, Wilbur L., M.D. Ophthalmology and Oto-laryngology

Bismarck, N. Dak.

Diver, Robert W., M.D. Ophthalmology and Oto-laryngology

Clay Center, Kans.

Evans, David J., M.D. Ophthalmology and Oto-laryngology

Aurora, Ill.

Ferguson, Everett R., M.D. Oto-laryngology

Cleveland, Tenn.

Feuling, John C., M.D. Obstetrics and Gynecology

Bovey, Minn.

Frank, Herman W., M.D. Ophthalmology and Oto-laryngology

Gadsden, Ala.

Gabriel, Carson K., M.D. Ophthalmology and Oto-laryngology

Quincy, Ill.

Garcia, Octavio, M.D. Surgery

McAllen, Tex.

Gardner, Linwood C., M.D. Ophthalmology and Oto-laryngology

Fond du Lac, Wis.

Glover, Arthur C., M.D. Ophthalmology and Oto-laryngology

Elmira, N. Y.

Goodman, Jonathan N., M.D. Pediatrics

Osceola, Iowa

Guenther, John C., M.D. Surgery

La Grange, Tex.

Hasten, Gilbert E., M.D. Ophthalmology and Oto-laryngology

Ranger, Tex.

Henderson, Joe C., M.D. Pediatrics

Mr. Olive, N. C.

Hendry, Cullen H., M.D. Ophthalmology and Oto-laryngology

Beaumont, Tex.

Henry, Sylvester F., M.D. Ophthalmology and Oto-laryngology

Effingham, Ill.

Hillmer, Raymond E., M.D. Obstetrics and Gynecology

Amasa, Mich.

Hoffet, John, M.D. Ophthalmology and Oto-laryngology

Omaha, Nebr.

Howell, Donald M., M.D. Ophthalmology and Oto-laryngology

Alma, Mich.

Hoxie, Derrick A., M.D. Ophthalmology and Oto-laryngology

Madison, Nebr.

Humphrey, Hall H., M.D. Pediatrics

Pocpass, Mo.

Johnson, James S., M.D. Ophthalmology and Oto-laryngology

Cairn, Ill.

Jones, Fred G., M.D. Oto-laryngology

Utica, N. Y.

Jones, Vincent L., M.D. Ophthalmology and Oto-laryngology

St. Louis, Mo.

Joynt, Martin J., M.D. Ophthalmology and Oto-laryngology

LeMars, Iowa.

Kennedy, Robert W., M.D. Surgery

Marshall, Mo.

Krieger, Curt H., M.D. Ophthalmology and Oto-laryngology

Louisville, Ky.

Langhorst, Arthur L., M.D. Oto-laryngology

Elgin, Ill.

Lauderdale, Charles L., M.D. Surgery

Ranger, Tex.

Leitch, Austin F., M.D. Obstetrics and Gynecology

Wichita Falls, Tex.

Leslie, James F., M.D. Ophthalmology and Oto-laryngology

Springfield, Mo.

Link, Martha N., M.D. Obstetrics and Gynecology

Dubuque, Iowa

Macdonald, Roderick, M.D. Ophthalmology and Oto-laryngology

Rock Hill, S. C.

Manion, Peter J., M.D. Pediatrics

St. Louis, Mo.

Marner, William A., M.D. Oto-laryngology

St. Louis, Mo.

Mathews, Walter J., M.D. Ophthalmology and Oto-laryngology

Arlington, Tex.
### THE SCHOOL OF MEDICINE

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<th>Name</th>
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<td>Mayfield, Warren T., M.D.</td>
<td>Surgery</td>
<td>Norman, Okla.</td>
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<td>McMurray, Edward A., M.D.</td>
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<td>Zimmermann, Daniel J., M.D.</td>
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**Total, 193**

### FOURTH YEAR CLASS

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<td>Akers, Elwyn Nickell</td>
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<td>University City, Mo.</td>
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<td>A.B., Washington Univ., '32</td>
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<td>Basham, John Henry</td>
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<td>Wichita, Kans.</td>
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<td>A.B., Washington Univ., '32</td>
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<td>Berens, Norbert Henry</td>
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<td>Summerfield, Kans.</td>
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<td>Berkowitz, Morris</td>
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**Total, 193**
Brasher, Charles Alonzo ......................................................... Jefferson City, Mo.
A.B., Simmons Univ., '27.
B.S., Univ. of Mo., '34.
Breslow, Lawrence .............................................................. Ozone Park, N. Y.
A.B., Washington Univ., '32.
Brown, Cecil Hooper ............................................................. Jackson, Tenn.
A.B., Washington Univ., '32.
Bryan, James Howard ............................................................. St. Louis, Mo.
A.B., Washington Univ., '32.
Burton, William Young ............................................................. Mexico, Mo.
A.B., Univ. of Mo., '32.
B.S., Univ. of Mo., '33.
Callihan, Charles Forrest ...................................................... Luray, Mo.
A.B., Culver-Stockton Coll., '32.
B.S., Univ. of Mo., '34.
Clarke, Joseph Lawrence ......................................................... Ennis, Tex.
B.S., Southern Methodist Univ., '32.
Cooley, Fred Everett, Jr ......................................................... Phoenix, Ariz.
A.B., Univ. of Southern Calif., '32.
Crenner, William Joseph ........................................................... Jefferson City, Mo.
A.B., Univ. of Mo., '33.
B.S., Univ. of Mo., '34.
Crouch, Francis Richard ......................................................... Albany, N. Y.
A.B., Univ. of Mo., '32.
Darrow, Arthur Charles, Jr ...................................................... Granville, Ohio
A.B., Denison Univ., '32.
Davenport, Merrill Clark .......................................................... Pleasant Hill, Mo.
B.S., Univ. of Mo., '34.
Davis, Vernam Terrell, Jr ......................................................... Webster Groves, Mo.
Dill, John Forrest, III ............................................................. Alexander City, Ala.
A.B., Yale Univ., '28.
Donnell, Robert Hart, Jr .......................................................... Hematite, Mo.
A.B., Univ. of Mo., '32.
B.S., Univ. of Mo., '34.
Drescher, Emmett Burk ............................................................ St. Louis, Mo.
A.B., Washington Univ., '32.
Drey, Norman Walter ............................................................... St. Louis, Mo.
A.B., Princeton Univ., '32.
Dreyer, Philip Vernon .............................................................. Kirksville, Mo.
B.S., Northeast Mo. State Teachers Coll., '31.
B.S., Univ. of Mo., '34.
Drinkard, Robert Uriel, Jr ......................................................... Wheeling, W. Va.
Dunn, Robert Cecil ................................................................. Groton, S. Dak.
A.B., Univ. of S. Dak., '32.
A.M., Univ. of S. Dak., '34.
Dworkin, Saul ................................................................. Cleveland, Ohio
A.B., Adelbert Coll., '32.
Earp, Ralph Kenneth .............................................................. El Dorado, Kans.
B.S., Washburn Coll., '31.
Edmonds, Henry Wolfner .......................................................... St. Louis, Mo.
Edmonds, Howard Keay .............................................................. Coral Gables, Fla.
B.S., Univ. of Miami, '32.
Elliott, Robert William .......................................................... Fountaintown, Ind.
A.B., Washington Univ., '32.
Ellis, Orwyn Haywood ............................................................... Philadelphia, Pa.
A.B., Stanford Univ., '32.
Ellis, Stephen Stuart ............................................................... Coffeyville, Kans.
A.B., Washington Univ., '32.
Engel, Edgar Leo ................................................................. Evansville, Ind.
A.B., Wabash Coll., '32.
Epps, Curtis Howard ............................................................... Springfield, Mo.
B.S., Drury Coll., '34.
Farris, John Calvin ............................................................... Caruthersville, Mo.
Fleming, Paul Dunlap ............................................................. Waterloo, Ill.
Fry, John Francis ................................................................. Webster Groves, Mo.
B.S., Colby Coll., '35.
Hauptman, Harry ................................................................. Jersey City, N. J.
A.B., Univ. of Mich., '32.
Hetherington, Jessie Tharp ....................................................... St. Louis, Mo.
A.B., Univ. of Mich., '31.
Hollombe, Samuel Morris .......................................................... Los Angeles, Calif.
A.B., Univ. of Calif., '31.
Horner, John Linscott ............................................................. St. Louis, Mo.
A.B., Washington Univ., '32.
<table>
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<tr>
<th>Name</th>
<th>Degree</th>
<th>School/University</th>
<th>City</th>
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<tbody>
<tr>
<td>Jacobson, William Henry</td>
<td>B.S.</td>
<td>Univ. of Pittsburgh</td>
<td>Canton, Ohio</td>
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<tr>
<td>Jaffe, Hyman</td>
<td>A.B.</td>
<td>Adelbert Coll.</td>
<td>Cleveland, Ohio</td>
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<tr>
<td>Kahn, Nathan Robert</td>
<td>A.B.</td>
<td>Washington Univ.</td>
<td>Brooklyn, N.Y.</td>
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<tr>
<td>Leech, Charles Albert Jr</td>
<td>B.S.</td>
<td>Univ. of Mo.</td>
<td>New Franklin, Mo.</td>
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<td>Lockett, Edmund S</td>
<td>A.B.</td>
<td>Central Coll.</td>
<td>St. Louis, Mo.</td>
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<td>Lundmark, Vernon Oscar</td>
<td>B.S.</td>
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<td>Seattle, Wash.</td>
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<td>McNamara, Thaddeus Maria Jr</td>
<td>B.S.</td>
<td>Stanford Univ.</td>
<td>Bakersfield, Calif.</td>
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<tr>
<td>McNew, William Thomas</td>
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<td>Univ. of Mo.</td>
<td>Carthage, Mo.</td>
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<td>Medcalf, Henry Howard Jr</td>
<td>A.B.</td>
<td>Howard Coll.</td>
<td>Lowndesboro, Ala.</td>
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<td>Miller, Edward Allison</td>
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<td>Miller, Ivan Jenks</td>
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<td>Univ. of Mo.</td>
<td>Belton, Mo.</td>
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<td>Minzel, Wesley Charles</td>
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<td>Sharon, Wash.</td>
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<td>Mitchell Robert Hiestand</td>
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<td>Columbia, Mo.</td>
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<td>Morrison, James Donald</td>
<td>A.B.</td>
<td>Univ. of Mo.</td>
<td>Billings, Mont.</td>
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<td>Mueller, Robert John</td>
<td>A.B.</td>
<td>Univ. of Wash.</td>
<td>Maplewood, Mo.</td>
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<td>A.B.</td>
<td>Univ. of Wash.</td>
<td>St. Louis, Mo.</td>
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<td>Platz, Charles Parker</td>
<td>A.B.</td>
<td>Stanford Univ.</td>
<td>Fort Collins, Colo.</td>
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<td>Pletcher, Kenneth Eugene</td>
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<td>Central Coll.</td>
<td>Pacific, Mo.</td>
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<td>Plymale, John Langley</td>
<td>A.B.</td>
<td>Univ. of Wash.</td>
<td>Gallipolis, Ohio</td>
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<td>Records, John Williams</td>
<td>A.B.</td>
<td>Ohio Wesleyan Univ.</td>
<td>St. Louis, Mo.</td>
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<td>Rector, Eleanor Johnson</td>
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<td>Univ. of Wash.</td>
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<td>Rector, Lewis Edwin</td>
<td>B.S.</td>
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<td>Wittenberg, Wis.</td>
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<td>Wopprecht, Michael Schall</td>
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<td>Morganfield, Ky.</td>
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**Total, 98.**

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**THIRD YEAR CLASS**

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<td>St. Louis, Mo.</td>
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<td>Boozer, Thomas Stewart</td>
<td>Anniston, Ala.</td>
<td>A.B., Univ. of Ala., '35.</td>
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<td>Bottom, Donald Stewart</td>
<td>East St. Louis, Ill.</td>
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<td>Bourland, John Bookhout</td>
<td>Dallas, Tex.</td>
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<td>B.S., Univ. of Mo., '35.</td>
<td>A.B., Washington Univ., '33.</td>
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<td>Burch, Earl Samuel</td>
<td>Fort Dodge, Iowa</td>
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<td>Nashville, Tenn.</td>
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<td>Fond du Lac, Wis.</td>
<td>A.B., Univ. of Wis., '35.</td>
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<td>Calvy, George Lloyd</td>
<td>St. Louis, Mo.</td>
<td>A.B., Univ. of Mo., '35.</td>
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<td>Caster, Rexford Gillespie</td>
<td>St. Louis, Mo.</td>
<td>A.B., Univ. of Mo., '35.</td>
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<td>Compton, Martin Andrew</td>
<td>Peoria, Ill.</td>
<td>A.B., Drake Univ., '33.</td>
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<td>Crouse, Bernard Alan</td>
<td>East St. Louis, Ill.</td>
<td>A.B., Washington Univ., '32.</td>
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Day, Samuel Mason, Jr. ................................................ Alexander City, Ala.
Dougall, John Mac ............................................. Springville, Utah
A.B., Brigham Young Univ., '33.
Erlanger, Herman .............................................. St. Louis, Mo.
A.B., Univ. of Wis., '33.
Fiorito, Joseph Anthony ....................................... Syracuse, N. Y.
A.B., Oberlin Coll., '33.
Fitch, Richard Homer .......................................... Sturgis, S. Dak.
A.M., Univ. of S. Dak., '27.
Gann, Eldred La Monte ....................................... Burden, Kans.
Gehrand, Henry Christopher ................................. Los Angeles, Calif.
B.S., Univ. of Wis., '33.
Gellhorn, Alfred Adolph ........................................ St. Louis, Mo.
Glover, William Albert Kenneth ............................ Halfway, Mo.
R.S., Southwest Mo. State Teachers Coll., '31.
Goldman, Gilbert Sane ......................................... Pittsburgh, Pa.
B.S., Univ. of Pittsburgh, '33.
Gray, William Halling .......................................... Fort Bragg, Calif.
A.B., Stanford Univ., '33.
Haentzschel, Lester Esaias ..................................... Madison, Wis.
A.B., Univ. of Wis., '33.
Harris, Edward Alun ............................................. Brewster, Fla.
A.B., Univ. of Ala., '33.
Hayward, Willis Howard ........................................ Logan, Utah
B.S., Utah State Agri. Coll., '33.
Hubbard, Leslie Howell ........................................... Wilton, Ala.
A.B., Univ. of Ala., '34.
R.S., Univ. of Ala., '35.
Huffman, Carroll Wilson .......................... Hickory, N. C.
B.S., Lenoir-Rhyne Coll., '33.
Humphrey, Kenneth Edward .................................... East St. Louis, Ill.
A.B., Westminster Coll., '33.
Huntley, Henry Clay ............................................. Steele, Mo.
A.B., Washington Univ., '33.
Ittner, George Washington, Jr ............................... St. Louis, Mo.
A.B., Univ. of Mo., '34.
B.S., Univ. of Mo., '35.
Jansoulius, John Willard ....................................... Bismarck, N. Dak.
A.B., Univ. of N. Dak., '34.
B.S., Univ. of N. Dak., '35.
Kaplan, Arthur Arthur ............................................. Brooklyn, N. Y.
A.B., Cornell Univ., '33.
Kerby, Kenneth Earl ............................................. Kansas City, Mo.
A.B., Univ. of Mo., '35.
R.S., Univ. of Mo., '35.
Kingland, Robert Chenault ................................... St. Louis, Mo.
A.B., Washington Univ., '33.
Kircher, Theodor Engelmann, Jr ............................. Belleville, Ill.
A.B., Yale Coll., '33.
Kitchen, William Meyer ......................................... Glasgow, Mo.
A.B., Univ. of Mo., '34.
R.S., Univ. of Mo., '35.
Kusunoki, Clarence Jumbo ....................................... Honolulu, T. H.
A.B., Univ. of Hawaii, '33.
Levingston, Julian Paul ............................................ Brownsville, Pa.
B.S., Univ. of Pittsburgh, '32.
Lischer, Carl Edward ............................................ University City, Mo.
A.B., Univ. of Calif., '32.
Little, Edgar Hugh ................................................ East St. Louis, Ill.
A.B., Washington Univ., '33.
Little, Robert Allyn ............................................. East St. Louis, Ill.
A.B., Washington Univ., '33.
Littmann, Lewis Ezekial ........................................ St. Louis, Mo.
A.B., Washington Univ., '33.
Look, William Blackford ......................................... Collinsville, Ill.
R.S., Univ. of Mo., '35.
Lowenhaupt, Elizabeth .......................................... St. Louis, Mo.
A.B., Radelife Coll., '33.
Lyddon, Harold Ray, Jr ......................................... Kansas City, Mo.
A.B., Univ. of Mo., '33.
Lyman, Edward Harry .................................................. St. Louis, Mo.
Lytle, Howard William .................................................. Lodi, Calif.
Martin, Charles Ellabrock ............................................. St. Louis, Mo.
McCall, Edwin Lomen ................................................... Laddonia, Mo.
McCasland, John Daniel ................................................ Chula Vista, Calif.
McGrath, Martin Stanley .............................................. Star, Idaho
McKenna, James Wallace .............................................. Tarkio, Mo.
McCausland, John Daniel .............................................. Chula Vista, Calif.
McElroy, John Edward .................................................. St. Louis, Mo.
Mountjoy, Philip Shannon .............................................. St. Louis, Mo.
Owen, Walter Edwin, Jr ............................................... Clinton, Mo.
Parems, Morton Donald ................................................ St. Louis, Mo.
Printz, Joseph Harold ................................................. Kansas City, Mo.
Quinn, William Joseph ................................................. San Francisco, Calif.
Reid, Henry Nowell .................................................. Rome, N. Y.
Risser, Philip Crane .................................................. Blackwell, Okla.
Robertson, Edwin Norris, Jr ......................................... Concordia, Kans.
Rosenbaum, Lloyd Emmerich ........................................... Anderson, Ind.
Russell, Thomas Goodson ............................................. St. Louis, Mo.
Sauer, William Nicholas .............................................. St. Louis, Mo.
Schopp, Alvin Charles ................................................. Jacksonville, Ill.
Selker, Maja Leroy .................................................. Memphis, Tenn.
Smith, Harvey Sydney, Jr ............................................. East St. Louis, Ill.
Stevenson, Walter David, Jr ........................................ Quincy, Ill.
Stevenson, Walter David, Jr ......................................... Quincy, Ill.
Tompkins, Harold Phillip ........................................... Anaheim, Calif.
Townsend, Hastel Lavelle ............................................ Birmingham, Ala.
Trowbridge, Barnard Cole ............................................. Kansas City, Mo.
Tversky, Edgar Louis .................................................. St. Louis, Mo.
Vaughan, John Russell, Jr ............................................ University City, Mo.
Weber, Thomas Loftin ................................................ Olney, Ill.
Wenkke, William Cash  
A.B., Univ. of Mo., '34.  
E.S., Univ. of Mo., '34.  

Westrup, Ellsworth Arthur  
A.B., Washington Univ., '33.  

Williams, Ray David  
A.B., Hampden-Sydney Coll., '30.  

Wittler, Marie Henrietta  
M.S., Emory Univ., '31.  

St. Louis, Mo.  
Total, 97.  

SECOND YEAR CLASS  

Abrahams, Harry Harvey  
A.B., Cornell Univ., '34.  

Aker, Cecil Grover  
A.B., Central Coll., '34.  

Allee, William Sylvanus  
A.B., Univ. of Mo., '34.  

Baers, Harry  
A.B., Washington Univ., '33.  

Baker, William Green  
A.B., Univ. of Ill., '34.  

Barnett, Henry Lewis  
A.B., Univ. of Ill., '34.  

Bingham, Harvey Dexter  
B.S., Univ. of Wash., '34.  

Blaney, Loren Francis  
A.B., Washington Univ., '34.  

Blankenship, George William  
A.B., Central Coll., '34.  

Brooke, Robert Dunlap  
B.A., DePauw Univ., '32.  

Brookes, Theodore Prewitt, Jr.  
A.B., Washington Univ., '34.  

Bryan, Matvern Thornton  
A.B., Univ. of Tenn., '34.  

Carter, Kenneth Lockie  
A.B., Washington Univ., '34.  

Carter, Margaret Ann  
A.B., Washington Univ., '34.  

Conrad, Adolph Henry, Jr.  
A.B., Washington Univ., '34.  

Doenges, James Luther  
A.B., Univ. of Neb., '34.  

Findley, James Wallace  
A.B., Univ. of Wash., '34.  

Freeman, Harold  
Ph.B., Yale Coll., '29.  

Gershon, Edward Elliott  
A.B., Washington Univ., '33.  

Gilbert, Harold Raymond  
A.B., Adelbert Coll., '33.  

Dorothy  
E.S., Univ. of Wash., '32.  

E.S., Univ. of Wash., '32.  

Harris, Ruben Rhys  
A.B., Univ. of Ala., '33.  

Hartman, Paul Tupper  
A.B., Washington Univ., '34.  

Hawker, William Davis  
A.B., Washington Univ., '34.  

Hempelmann, Louis Henry, Jr.  
A.B., Washington Univ., '34.  

Henderson, Arthur Wright  
A.B., Ill. Coll., '33.  

Hunter, John Willis, Jr.  
A.B., Univ. of Ala., '33.  

Jensen, Joshua Ernest  
A.B., Denison Univ., '34.  

Jones, Horace Edgar  
A.B., Dartmouth Coll., '34.  

Jones, James Buckner  
A.B., Southeast Mo. State Teachers Coll., '33.  

Kimelman, Nathan  
E.S., Univ. of Pittsburgh, '33.  

Kirtz, Louis Philip, Jr.  
A.B., Washington Univ., '34.  

Koch, Pearl Elizabeth  
A.B., Washington Univ., '34.  

Jefferson City, Mo.  

Santa Ana, Calif.  

Veterans Administration Home, Kans.  

Washington, D.C.  

Salem, Ill.  

University City, Mo.  

University City, Mo.  

University City, Mo.  

Cleveland, Ohio  

Seattle, Wash.  

Brewster, Fla.  

St. Louis, Mo.  

St. Louis, Mo.  

St. Louis, Mo.  

Jacksonville, Ill.  

Birmingham, Ala.  

Granville, Ohio  

Anderson, Ind.  

Piedmont, Mo.  

Pittsburgh, Pa.  

St. Louis, Mo.  

St. Louis, Mo.
Kostman, David Eli, St. Louis, Mo.
A.B., Washington Univ., '33.

Kotner, Lawrence Malvin, St. Louis, Mo.
A.B., Washington Univ., '34.

Legow, Albert, Cleveland, Ohio
A.B., Adelbert Coll., '32.

Lionberger, John Robert, Jr., St. Louis, Mo.
A.B., Washington Univ., '34.

Lowell, Vivien Forman, Galesburg, Ill.
A.B., Knox Coll., '34.

Lynn, Theodore Ayres, San Francisco, Calif.

Mangum, John Robert, Jr., Univ. of Ariz., '32.

Mantz, Harry Earl, St. Louis, Mo.
A.B., Univ. of Mo., '34.

McKee, Wayne Pickens, Modesto, Calif.
A.B., Univ. of Calif., '33.

Milster, Clyde Rogers, St. Louis, Mo.
A.B., Univ. of Mo., '34.

Moseley, Harry Gladding, Tucson, Ariz.
B.S., Univ. of Ariz., '32.

Mueller, Alexander Ado, Belleville, Ill.

Nolan, James Findley, St. Louis, Mo.
A.B., Univ. of Mo., '35.

Ogawa, Robert Nobuyoshi, Hilo, T. H.
A.B., Univ. of Mo., '32.

Peck, George Arthur, Springfield, Mo.
A.B., Drury Coll., '34.

Petkovich, Ogden Lazar, St. Louis, Mo.
A.B., Washington Univ., '34.

Piraino, Anthony Frank, Cleveland, Ohio
A.B., Oberlin Coll., '34.

Pollock, Joseph Hirsh, St. Louis, Mo.
A.B., Washington Univ., '34.

Pollock, Joseph Hirsh, St. Louis, Mo.
A.B., Washington Univ., '34.

Parker, Joe Marion, Lovejoy, Nev.
A.B., Univ. of Ill., '30.

M.S., Univ. of Ill., '32.

Richey, Tim Victor, Tucson, Ariz.
A.B., Univ. of Ariz., '34.

Roberts, Thomas Haynes, Santa Monica, Calif.
B.S., Univ. of Nev., '34.

Rose, William Frederick, Dupo, Ill.

Rosenblatt, Philip, New York, N. Y.
A.B., Univ. of N. H., '34.

Ruff, Troy Eugene, Doniphan, Mo.
A.B., Univ. of Mo., '35.

Schmit, Samuel, St. Louis, Mo.
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A.B., Univ. of Calif. at Los Angeles, '34.

Silverberg, Charles, St. Louis, Mo.
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Silverberg, Hymen Dorf, St. Louis, Mo.

Simpson, Reed Morgan, St. Louis, Mo.

Smith, Warren Ferguson, Topfield, Mass.
B.S., Univ. of N. H., '34.

Spitz, Milton Adolph, Milwaukee, Wis.
A.B., Dartmouth Coll., '34.

Stelner, Howard Abraham, East Cleveland, Ohio
A.B., Univ. of Iowa, '34.

Takenaka, Kameichi, Honolulu, T. H.
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Thomas, Roy, Woodland, Calif.
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Van Deventer, James Kendall, Long Beach, Calif.

Wade, Leo Joseph, St. Louis, Mo.
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Weber, Frank Joseph, Jr., Olney, Ill.
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Wedig, John Harrison, Wood River, Ill.
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Wilder, Winfield Scott, Lewistown, Mont.
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**SUMMARY OF STUDENTS IN THE SCHOOL OF MEDICINE**

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