FORTY-FIFTH ANNUAL
CATALOGUE
OF
THE SCHOOL OF MEDICINE

APRIL 10, 1934
Washington University

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

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Charles H. Garrison, A.B., Principal
Block Plan of Washington University
Medical Group and School of Dentistry
BULLETIN
of
WASHINGTON UNIVERSITY
SAINT LOUIS

FORTY-FIFTH ANNUAL
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PUBLICATIONS OF WASHINGTON UNIVERSITY
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## CALENDAR
### 1934

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CALENDAR

1933-34

Registration for Second Half-Year, Friday, February 2, and Saturday, February 3, 1934.
Second Trimester ends Saturday, March 17, 1934.
Third Trimester begins Monday, March 19, 1934.
Holiday, Good Friday, March 30, and Saturday, March 31, 1934.
Third Trimester ends Saturday, June 2, 1934.
Final Examinations begin Monday, June 4, 1934.
Commencement, Tuesday, June 12, 1934.

1934-35

Registration, Tuesday, September 25, and Wednesday, September 26, 1934.
Examinations for Advanced Standing and Removal of Conditions, Monday, September 24, to Wednesday, September 26, 1934, inclusive.
Academic Year (First Trimester) begins Thursday, September 27, 1934.
Holiday, Thanksgiving Day, Thursday, November 29, 1934.
First Trimester ends Saturday, December 15, 1934.
Second Trimester begins Monday, December 17, 1934.
Christmas Recess, Monday, December 24, 1934, to Thursday, January 3, 1935, inclusive.
Second Trimester ends Saturday, March 16, 1935.
Third Trimester begins Monday, March 18, 1935.
Holiday, Good Friday, April 19, and Saturday, April 20, 1935.
Third Trimester ends Saturday, June 1, 1935.
Final Examinations begin Monday, June 3, 1935.
Commencement, Tuesday, June 11, 1935.
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1 Died August 16, 1933.
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Frank De Vore Gorham, A.B., M.D., Instructor in Clinical Medicine

* Resigned, April 1, 1934.
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1 On leave of absence.
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ROBERT JAMES CROSSEN, A.B., M.D., Instructor in Clinical Obstetrics and Gynecology
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IRENE KOECHIG FREIBERG, A.B., A.M., Instructor in Biological Chemistry
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NATHAN ANTHONY WOMACK, B.S., M.D., Instructor in Surgery
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ROSSLEENE ARNOLD HETLER, A.B., A.M., Ph.D., Instructor in Applied Nutrition in Oto-Laryngology
ANNE MACGREGOR PERLEY, A.B., M.A., Instructor in Biological Chemistry in Pediatrics

* On leave of absence October 1, 1933 to April 1, 1934.
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OTTO JULIUS WILHELMI, B.S., M.D., Instructor in Clinical Genito-Urinary Surgery
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LOUIS JOSEPH BIRNSER, M.D., Instructor in Clinical Oto-Laryngology
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Cyril Mitchell MacBryde, A.B., M.D., Instructor in Medicine
Albert H. Hegnauer, A.B., Ph.D., Instructor in Pharmacology
George Ormiston, M.B.Ch.B., M.D., M.R.C.P., Instructor in Clinical Pediatrics
James M. DouglaS, LL.B., Lecturer in Medical Jurisprudence

1 On leave of absence.
CHARLES H. PHILPOTT, A.B., A.M., Ph.D., Lecturer in Public Health
JOSEPH WILLIAM CHARLES, A.B., M.A., M.D., Lecturer in Clinical Ophthalmology
CHARLES W. TOOKER, M.D., Lecturer in Clinical Ophthalmology
JOHN ELLIS JENNINGS, M.D., Lecturer in Clinical Ophthalmology
JOSEPH C. WILLETT, 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
LIONEL SINCLAIR LUTEN, M.D., Assistant in Clinical Medicine
JAMES LEWALD, M.D., Assistant in Clinical Psychiatry
AMALIE MARIE NAPIER, M.D., Assistant in Clinical Ophthalmology
WILLIAM LUDWIG HANSON, M.D., Assistant in Clinical Oto-Laryngology
LEE PETTIT GAY, A.B., M.D., Assistant in Clinical Medicine
OLIVER ABEL, 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
WILLIAM GIDEON HAMM, B.S., M.D., Assistant in Clinical Surgery
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
NEWTON W. AMOS, M.D., Assistant in Clinical Genito-Urinary Surgery
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 DRUZE SENTURIA, B.S., M.D., Assistant in Clinical Medicine
FRANKLIN EDWARD WALTON, B.S., M.D., Assistant in Surgery
HARRY WILLIAM WIESE, B. S., M.D., Assistant in Clinical Medicine
MARGOLIS CLAIRE MORRIS, A.B., M.S., Assistant in Applied Bacteriology and Immunology
CARL CONRAD BEISBARTH, B.S., M.D., Assistant in Clinical Ophthalmology
HARRY NAYLOR GLICK, A.B., M.D., Assistant in Clinical Oto-Laryngology
THE SCHOOL OF MEDICINE

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

HILDA FRIEDMAN MARGOLIN, A.B., M.S., Assistant in Pathology

EDWIN HENRY ROHLFING, M.D., Assistant in Clinical Pediatrics

WILLIAM GOODWIN COLEMAN, B.S., M.D., Assistant in Clinical Dermatology

ELLIS SOLOMAN MARGOLIN, A.B., M.D., Assistant in Pathology

ALLEN BREWER POTTER, A.B., M.D., Assistant in Clinical Oto-Laryngology

ROLAND WILLIAM STUEBNER, M.D., Assistant in Clinical Surgery

KENNETH FRANKLIN GLAZE, B.S., M.D., Assistant in Clinical Medicine

HOWARD CLAY KNAPP, A.B., M.D., Assistant in Clinical Ophthalmology

MARY ANNE McLOON, A.B., B.M., M.D., Assistant in Clinical Pediatrics

CLINTON WELSH LANE, A.B., M.D., Assistant in Clinical Dermatology

LILBURN CASPER BOEMER, B.S., M.D., Assistant in Clinical Oto-Laryngology

MAX DEUTCH, M.D., Assistant in Clinical Pediatrics

EVELYN CORA DIXON, B.S., M.S., Assistant in Applied Bacteriology in Oto-Laryngology

CATHERINE C. BUHRMEISTER, B.S., M.S., Assistant in Applied Chemistry in Oto-Laryngology

EDWARD LAWRENCE KEYES, JR., B.S., M.D., Assistant in Clinical Surgery

EDWARD WASSON GROVE, B.S., M.D., Assistant in Surgery

GRACE MEHRSEN, A.B., M.A., Assistant in Applied Bacteriology in Medicine and Assistant in Bacteriology and Immunology

ELIZABETH MOORE, A.B., M.D., Assistant in Pathology

SAMUEL DAVID SOULE, M.D., Assistant in Obstetrics and Gynecology

MILTON SMITH, B.S., M.D., Assistant in Clinical Medicine

1 Resigned March 7, 1934.
ALEXANDER SILVERGLADE, B.S., Assistant in Bacteriology and Immunology
IRWIN HERMAN ESKELES, B.S., M.D., Assistant in Clinical Dermatology
ROBERT VOTAW, M.D., Assistant in Oto-Laryngology
JOSEPH ALOYSIUS BAUER, M.D., Assistant in Clinical Pediatrics
WILLIAM WALLACE GREENE, A.B., M.D., Assistant in Surgery
NORMAN DOUGLAS HALL, M.D., C.M., Assistant in Surgery
HANS LOUIS KLEINE, B.S., M.D., Assistant in Obstetrics and Gynecology
GUSTAVE ALBIN MATSON, A.B., A.M., Assistant in Bacteriology and Immunology
PAUL ROLAND NEMOURS, B.S., M.D., Assistant in Clinical Oto-Laryngology
KEVIN CHARLES MORRIN, M.B., B.Ch., Assistant in Clinical Obstetrics and Gynecology
WILLARD CALVIN SCRIVNER, B.S., M.D., Assistant in Obstetrics and Gynecology
PAUL ALLEN WHEELER, A.B., M.D., Assistant in Pathology
CHARLOTTE WIEGHARD, A.B., M.S., Assistant in Applied Biological Chemistry
JOHN B. O'NEILL, M.D., Assistant in Clinical Obstetrics and Gynecology
GILBERT CARL STRUBLE, B.S., M.D., Assistant in Clinical Ophthalmology
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
KARL FREDERICK KOENIG, B.S., M.D., Assistant in Medicine
RUSSELL JOHN BLATTNER, A.B., M.D., Assistant in Pathology
LOUIS T. BYARS, B.S., M.D., Assistant in Surgery
FAY SOLOMON COMER, M.D., Assistant in Surgery
CLARENCE ALLEN GOOD, Jr., A.B., M.D., Assistant in Radiology
RAYMOND FRANCIS HOLDEN, Jr., B.S., M.D., Assistant in Pathology
ABLOM ARNOLD KIPPE, A.B., M.D., Assistant in Pathology
ALFRED JOHN MESTCHER, A.B., M.D., Assistant in Ophthalmology
MARIAN GRACE PFINGSTEN, A.B., Assistant in Oto-Laryngology
JAMES EDWARD PITTMA, A.B., M.D., Assistant in Surgery

1. July 1 to December 15, 1933.
2. July 1 to December 31, 1933.
THE SCHOOL OF MEDICINE

MYRON PRINZMETAL, A.B., A.M., M.D., Assistant in Medicine
OLIVE BARBARA SCHREGARDUS, A.B., Assistant in Applied Chemistry in Medicine
JOSEPH EDWIN SNADEL, A.B., M.D., Assistant in Medicine
RALPH W. SNOODGRASS, A.B., M.D., Assistant in Obstetrics and Gynecology
WILLARD OAKES TIRRILL, JR., A.B., M.D., Assistant in Obstetrics and Gynecology
ELLEN SCHWAB EHRENFEST, A.B., M.S.,1 Assistant in Biological Chemistry
ALBERT CHESTERFIELD STUTSMAN, B.S., M.D., Assistant in Oto-Laryngology
FRANCES H. STEWART, M.D., Assistant in Clinical Obstetrics and Gynecology
MARTIN FEENEY ENGMAN, JR., M.D., Assistant in Clinical Dermatology
ROBERT WILSON BARTLETT, B.S., M.D., Assistant in Clinical Surgery
GUERDAN HARDY, M.D.,2 Assistant in Clinical Ophthalmology
BARRETT LEARNED TAUSSEIG, A.B., M.D.,3 Assistant in Medicine
LOUIS L. TUREEN, B.S., M.D.,3 Assistant in Clinical Neurology
GEORGE WILBUR WRIGHT, B.S., M.D.,3 Assistant in Medicine

HELENE C. COLEMAN..........................Secretary to the Dean

FELLOWS
HIROMU Tsuchiya, A.B., Sc.D., Research Fellow in Public Health
GERTY T. CORI, M.D., Research Fellow in Pharmacology
GLENN ANSEL FRY, A.B., A.M., Ph.D., National Research Council Fellow in Applied Bio-physics in Ophthalmology
GEORGE A. HUNT, B.S., M.S., Ph.D., Research Fellow in Bacteriology and Immunology
AMOS MAVERICK GRAVES, M.S., M.D.,4 Fellow in Neurological Surgery
LEONARD THOMPSON FURLOW, B.S., M.D., Fellow in Neurological Surgery
WILLIAM MCCULLOUGH TUTTLE, A.B., M.D., National Research Council Fellow in Surgery
TU-SHAN JUNG, M.D.,5 China Medical Board Fellow in Radiology
JOSEPH E. RUBINSTEIN, A.B., M.D., C.M.,6 Fellow in Neurological Surgery

1 Resigned April 1, 1934.
2 Effective January 1, 1934.
3 Effective January 10, 1934.
4 Resigned December 31, 1933.
5 Effective November 6, 1933.
6 Effective April 1, 1934.
RESEARCH ASSOCIATES AND ASSISTANTS

DANIEL J. KOOMAN, A.M., Ph.D., *Research Associate in Cytology and Dermatology*

SAMUEL HOWARD BARTLEY, Ph.D., *Research Associate in Bio-physics and Psychology*

PAUL WILLIAM PREISLER, B.S., M.S., Ph.D., *Research Associate in Biological Chemistry*

EDWARD LEROY BURNS, M.D., *Research Assistant in Pathology*

F. J. CAHN, Ph.D.,¹ *Research Assistant in Pathology*

PAUL WILLIAM HAYWARD,² *Research Assistant in Pathology*

¹ Resigned, January 18, 1934.
² Effective, January 19, 1934.
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. Gorham
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
Oliver Abel, Jr.
Harry W. Wiese
Oliver Campbell
Charles E. Gilliland
William B. Kountz
Louis H. Behrens
Howard Rusk
Ralph S. Muckenfuss
Julius Jensen
C. Malone Stroud
Kenneth Glaze
Louis H. Hempelmann
Charles Duden
J. Ted Jean
Louis F. Aitken
Elmer Richman
Joseph Bredeck
Cyril MacBryde
Wendell MacLeod
Marshall Seibel

SURGERY
Surgeon in Chief
Evarts A. Graham

Associate Surgeons
Ernest Sachs
Vilray P. Blair
John R. Caulk
Malvern B. Clopton
J. Albert Key
Assistant Surgeons
Arthur O. Fisher  
Major G. Seelig  
J. Edgar Stewart  
Warren R. Rainey  
Glover H. Copher  
Dalton K. Rose  
Charles A. Stone  
Duff S. Allen  
Roland M. Klemme  
Theodore P. Brookes  
James B. Brown  
Warren H. Cole  
Frederick A. Jostes  
Isaac Y. Olch  
J. Hoy Sanford  
Otto J. Wilhelmi  
v. Rogers Deakin  
Robert Elman  
Peter Heinbecker  
Henry S. Brookes, Jr.  
William G. Hamm  
Nathan A. Womack  
Clarence H. Crego, Jr.  
Roland W. Stuebner  
Edward L. Keyes, Jr.  
Franklin Walton  
John Patton

Voluntary Assistants
J. Van Dyn  
William M. Tuttle  
Leonard T. Furlow  
Joseph E. Rubinstein

Assistant Obstetricians and Gynecologists
Adolph G. Schlossstein  
Otto St. Clair Krebs  
Richard Paddock  
Raymond M. Spivy  
John R. Vaughan  
Robert J. Crossen  
Grover B. Liese  
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  
Hans L. Kleine  
Frances H. Stewart  
Ralph W. Snodgrass  
Willard O. Tirrell

Obstetrics and Gynecology
Consultant
Henry Schwarz

Obstetrician in Chief and Gynecologist
Otto H. Schwarz

Gynecologist in Chief
Harry S. Crossen

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

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  
Charles L. Davis  
French K. Hansel  
Bernard J. McMahon  
James B. Costen  
Louis E. Freimuth  
Isaac D. Kelley, Jr.  
Louis J. Birsner  
Alfred J. Cone  
Allen B. Potter  
Helen Gage  
Fred W. Scherrer  
Robert E. Votaw  
L. C. Boomer  
Paul R. Nemours  
Harry N. Glick  
A. Chesterfield Stutsman
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

Voluntary Assistant
Gilbert Struble

PEDIATRICS

Physician in Chief
W. McKim Marriott

Consulting Physician
Borden S. Veeder

Associate Physicians
Theodore C. Hempelmann
Hugh McCulloch
Jean V. Cooke
Alexis F. Hartmann

Assistant Physicians
Jacob J. Singer
Adrien S. Bleyer
Maurice J. Lonsway
Park J. White
Katherine Bain
Cleon E. Colgate
Wayne A. Rane
Edwin H. Rohlfing
Paul J. Zentay
Max Deutch
Paul E. Kubitschek
Joseph A. Bauer
Lawrence Goldman
Frederick A. Jacobs
George Ormiston

DERMATOLOGY

Dermatologist
Martin F. Engman

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

NEUROLOGY

Neurologist
Sidney I. Schwab

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

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
Hugh M. Wilson
Marshall G. Seibel

STOMATOLOGY AND DENTISTRY

Stomatologist
Virgill 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
Karl F. Koenig

Assistant Resident
Myron Prinzmetal

Interns
John G. Staub
Wendell G. Scott
Cecil M. Charles
Raymond Holden
Truman G. Drake
Lee W. Dean, Jr.
C. Allen Good
Carl G. Harford
George H. Curtis

SURGERY

Resident
Edward W. Grove

Assistant Residents
Norman D. Hall
W. Wallace Greene
James E. Pittman
Louis T. Byars
Fay S. Comer

Interns
William T. K. Bryan
Bradford Cannon
George Crile, Jr.
Calvin S. Drayer
H. A. Knowlton
Robert S. Smith
Lyman K. Richardson

OBSTETRICS AND GYNECOLOGY

Residents
Willard C. Scrivner
Hans L. Kleine

Assistant Residents
Ralph W. Snodgrass
Willard O. Tirrill

Interns
Leo J. Glober
Donald B. Carr
Robert K. Plant
Lacy L. Shamburger
Ernest E. Wadlow
Helman C. Wasserman
Leonard P. Stein
Paul F. Max

OTO-LARYNGOLOGY

Assistant Residents
A. Chesterfield Stutsman
George Mood

Interns
Roger S. Grimmett
William F. Klotz
Clair S. Linton
A. Ross Anneberg
Newell H. Battles
Maurice Valsberg

Extern
F. L. Kennedy

OPHTHALMOLOGY

Resident
Alfred J. Metscher

Assistant Resident
Adolph C. Lange

Interns
J. W. McKinney
Wesley C. Corson
T. F. O'Connor
Leo G. Davis

Extern
W. W. Ford
THE SCHOOL OF MEDICINE

PEDIATRICS

Residents
Stanley L. Harrison
Robert L. Moore

Assistant Residents
James D. McKinney
P. A. Mulherin
Seton Campbell (Exchange)
T. F. McNair Scott (Exchange)
John Washington (Exchange)

Interns
Ernest L. Glasscock
J. Keller Mack
George W. Means
Robert H. Sykes
Ralph E. Weddington
Joseph C. Jaudon

PATHOLOGY

Resident
Russell J. Blattner


Director
John V. Lawrence

Assistant to the Director
(McMillan Clinics)
Altha Hallam

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

Physician in Charge
J. Ted Jean

Physicians to Out-Patients
Elsworth S. Smith
Elmer Richman
Howard A. Rusk
Ralph S. Muckenfuss
Harry L. Alexander
Walter Baumgarten
Jerome Cook
Walter Fischel
Lee Petit Gay
Frank Gorham
Llewellyn Sale

Assistant Physicians to Out-Patients
Marshall G. Seibel
W. Tupper Plume
Harold G. Newman
David M. Skilling

ALLERGY DIVISION

Chief of Clinic
Harry L. Alexander

Physician in Charge
Charles H. Eyermann

Physician to Out-Patients
Elmer Richman

ANEMIA DIVISION

Physician in Charge
Lawrence D. Thompson

ARTHRITIS DIVISION

Physician in Charge
J. Albert Key

Assistant Physician to Out-Patients
Oliver E. Tjoflat

CARDIOVASCULAR DIVISION

Chief of Clinic
Arthur E. Strauss

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

Chief of Clinic
David P. Barr

Physicians in Charge
Harold A. Bulger (Diabetic)
Anthony B. Day (Thyroid)
Otto H. Schwarz (Gynecological)
Samuel D. Soule (Gynecological)

Physician to Out-Patients
Cyril M. MacBryde

VENEREAL CLINIC

Chief of Clinic
Louis F. Aitken

MEDICAL DIVISION

Physician in Charge
J.W. MacLeod

DERMATOLOGICAL DIVISION

Physician in Charge
Clinton W. Lane

GASTROINTESTINAL DIVISION

Chief of Clinic
Joseph W. Larimore

Physician in Charge
Charles W. Duden

NEUROLOGICAL DIVISION

Chief of Clinic
Sidney I. Schwab

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

Assistant Physician to Out-Patients
Louis L. Tureen

Psychologist
Barbara Standish Kendall

THERAPEUTIC DIVISION

Physician in Charge
William G. Coleman

NEUROSYPHILIS DIVISION

Assistant Physicians to Out-Patients
Cyril M. MacBryde
Marriott Morrison

Ophthalmological Consultant
William M. James

GASTROINTESTINAL DIVISION

Chief of Clinic
Joseph W. Larimore

Physician in Charge
Charles W. Duden

OBSTETRIC DIVISION

Chief of Clinic
Otto H. Schwarz

ANTIBETIC 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 DIVISION

Dermatologist in Chief
Martin F. Engman

FOOD CLINIC DIVISION

Dietitian
Ruth Kahn

LABORATORY DIVISION

Physicians in Charge
George W. Curtis
George W. Wright

Technician
Anna Haag
THE SCHOOL OF MEDICINE

Chief of Clinic
William H. Mook

Physicians to Out-Patients
Richard Weiss
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
Glover H. Copher
Warren R. Rainey
J. Barrett Brown
I. Y. Olch
Nathan Womack
Robert Elman
Jacob G. Probststein
Harry S. Brookes, Jr.
Peter Heinbecker

Assistant Surgeons to Out-Patients
Roland Stuebner
Wm. G. Hamm
Edward L. Keyes

GENITO-URINARY DIVISION
Chief of Clinic
Rogers Deakin

Surgeon to Out-Patients
Dalton K. Rose

Assistant Surgeons to Out-Patients
Newton W. Amos
Otto J. Wilhelmi
J. Hoy Sanford
Norman C. Miller

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 Surgeon
Frederick A. Jostes

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
Park J. White
Frederick A. Jacobs

Assistant Physicians to Out-Patients
Max Deutch
Armin C. Hofsommer
Cleon E. Colgate
Ben M. Bull
Sol Londe

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 in Chief and
Gynecologist
Otto H. Schwarz

Gynecologist in Chief
Harry S. Crossen

Chief of Gynecological Clinic
John E. Hobbs

Chief of Obstetrical Clinic
Dudley R. Smith
BULLETIN OF WASHINGTON UNIVERSITY

Obstetricians and Gynecologists
Quitman U. Newell
T. Kenneth Brown
Karl J. Balazs
Otto S. Krebs
Carl R. Wegner
Grover B. Liese
Charles Drabkin
Robert J. Crossen
Melvin A. Roblee
Myron W. Davis

Assistant Obstetricians and Gynecologists
Francis J. Canepa
Frances H. Stewart
Kevin C. Morris
Samuel D. Soule
Hans L. Kleine
Willard C. Scrivner
Ralph W. Snodgrass
Willard O. Tippin

OPHTHALMOLOGICAL CLINIC
Ophthalmologist in Chief
Lawrence T. Post

Chief of Ophthalmological Clinic
Wm. M. James

Ophthalmologists in Charge of Clinics
William E. Shahan
Meyer Wiener
William F. Hardy
M. Hayward Post

Ophthalmologists to Out-Patients
Frederick E. Woodruff
Frederick O. Schwartz
Max W. Jacobs
Bennett Y. Alvis
Amaile M. Napier

Assistant Ophthalmologists to Out-Patients
Grover H. Poos
Carl C. Beisbarth
H. Rommel Hildreth
Guerdan Hardy
Gilbert Struble

OTO-LARYNGOLOGICAL 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. Birsner

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

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
Lionel S. Luten
Charles E. Gilliland
William Becke
Oliver Abel
J. W. Henderlite
Peter Heinbecker
William Hamm
N. A. Womack
James B. Brown
Franklin Walton
Roland W. Stuebner
Edward L. Keyes

Surgery
I. Y. Olch
Robert Elman

Neurosurgery
Roland M. Klemme

1 Appointed by the City upon nomination by the University.
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Charles Drabkin
Myron W. Davis
Melvin A. Roblee
Dudley R. Smith

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Adrien Bleyer
Theodore C. Hempelmann
Maurice J. Lonsway
Joseph A. Bauer
Sol Londe

Neurology
Andrew B. Jones
Louis L. Tureen

Dermatology
Richard S. Weiss
Adolph H. Conrad
Clinton W. Lane
William G. Coleman

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Bennett Y. Alvis
Grover H. Poos
Frederick O. Schwartz

Laryngology and Otology
Arthur M. Alden
Louis J. Birsner
Robert Votaw

Bronchoscopy
Millard F. Arbuckle
Arthur W. Proetz
Bernard J. McMahon

Orthopedic Surgery
J. Albert Key
J. Edgar Stewart
Theodore P. Brookes
F. A. Jostes
Charles A. Stone

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Otto J. Wilhelmi
V. Rogers Deakin
John F. Patton
K. O. Wilson

Dentistry
Charles Rederer

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Borden S. Veeder

Medicine
Theodore C. Hempelmann
Adrien Bleyer

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

CITY SANITARIUM

Consulting Physician
Sidney I. Schwab

Consulting Surgeon
Ernest Sachs
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LEE W. DEAN

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MEDICAL SOCIETY

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William G. Hamm, Secretary
### DEGREES CONFERRED

The degree of Doctor of Medicine was conferred upon the following, June 6, 1933:

<table>
<thead>
<tr>
<th>NAME</th>
<th>INTERNSHIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams, Julia Lindsay, B.S. (Cum Laude)</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Allen, Henry Cline</td>
<td>St. Luke's Hospital</td>
</tr>
<tr>
<td>Bagby, James William, A.B., B.S.</td>
<td>New Haven Hospital</td>
</tr>
<tr>
<td>Baird, Robert Desmond, B.S. (Cum Laude)</td>
<td>New Haven, Conn.</td>
</tr>
<tr>
<td>Barnhart, Willard Terrill, A.B., B.S.</td>
<td>St. Luke's Hospital</td>
</tr>
<tr>
<td>Basham, Francis Claybourne, A.B.</td>
<td>Halsford Hospital, Halsford, Kans.</td>
</tr>
<tr>
<td>Beamer, Phillip Hadley, A.B.</td>
<td>Missouri Baptist Hospital</td>
</tr>
<tr>
<td>Bland, Russell John, A.B. (Cum Laude)</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>Bologna, Angelo, A.B., B.S.</td>
<td>Columbus Hospital, New York, N.Y.</td>
</tr>
<tr>
<td>Bosse, Frank Krenning, A.B.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Boyd, Arthur Montgomery</td>
<td>St. Luke's Hospital</td>
</tr>
<tr>
<td>Broden, Sheldon Seymour, B.S.</td>
<td>California Hospital, Los Angeles, Cal.</td>
</tr>
<tr>
<td>Bryan, William Thomas Kimlin, A.B.</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>Calhoun, Alan Duncan, A.B.</td>
<td>Missouri Baptist Hospital</td>
</tr>
<tr>
<td>Canseco, Francisco Manuel, A.B.</td>
<td>St. Mary's Group of Hospitals</td>
</tr>
<tr>
<td>Carlson, Edward Franklin, A.B.</td>
<td>Southern Pacific General Hospital, San Francisco, Cal.</td>
</tr>
<tr>
<td>Charles, Cecil Marvin, A.B., A.M., Ph.D.</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>Cooper, Robert Lee, B.S.</td>
<td>Menorah Hospital, Kansas City, Mo.</td>
</tr>
<tr>
<td>Cope, Joseph Shelton, A.B. (Cum Laude)</td>
<td>Kansas City General Hospital, Kansas City, Mo.</td>
</tr>
<tr>
<td>Curtis, George Haskell, A.B. (Cum Laude)</td>
<td>Kansas City General Hospital, Kansas City, Mo.</td>
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<tr>
<td>Dean, Lee Wallace, Jr., B.S.</td>
<td>Barnes Hospital</td>
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<tr>
<td>Deane, Clarmont Paul, A.B.</td>
<td>Fresno County General Hospital, Fresno, Cal.</td>
</tr>
<tr>
<td>Dellin, Joseph, A.B.</td>
<td>Jewish Hospital, Brooklyn, N.Y.</td>
</tr>
<tr>
<td>Doyle, Olline Burton, Jr.</td>
<td>San Francisco Hospital, San Francisco, Cal.</td>
</tr>
<tr>
<td>Drake, Truman Guthred, Jr., A.B. (Cum Laude)</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>English, Wallace Davis, A.B.</td>
<td>St. Louis City Hospital</td>
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<tr>
<td>Evolof, Abe Raymond, A.B.</td>
<td>St. Louis City Hospital</td>
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<tr>
<td>Flynn, Charles Henry</td>
<td>St. Luke's Hospital</td>
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<tr>
<td>Freund, Harold Gustav, A.B.</td>
<td>Deaconess Hospital</td>
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<tr>
<td>Folk, Richard Burkhardt</td>
<td>Missouir Baptist Hospital</td>
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<tr>
<td>Gibson, Ora James, A.B., A.M.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Goldman, Harry, A.B.</td>
<td>Bushwick Hospital, Brooklyn, N.Y.</td>
</tr>
<tr>
<td>Good, Clarence Allen, Jr., A.B. (Cum Laude)</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>Greene, Harry LaMotte, A.B., B.S.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Grim, George Edward</td>
<td>Grim-Smith Hospital, Kirksville, Mo.</td>
</tr>
<tr>
<td>Grose, Edward Rosman, A.B. Salt Lake General Hospital, Salt Lake City, Cal.</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>Harford, Carl Gayler, A.B.</td>
<td>Mt. Sinai Hospital, Cleveland, Ohio</td>
</tr>
<tr>
<td>Harwell, James Lester, B.S.</td>
<td>St. Luke's Hospital, Denver, Colo.</td>
</tr>
<tr>
<td>Haslem, John Robert, A.B.</td>
<td>Des Moines Hospital, Iowa</td>
</tr>
<tr>
<td>Haw, Martin Tinsley, Jr., A.B. B.S.</td>
<td>St. Luke's Hospital</td>
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<tr>
<td>Herman, William Wolf</td>
<td>Deaconess Hospital</td>
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<tr>
<td>Holden, Raymond Francis, Jr., B.S.</td>
<td>Barnes Hospital</td>
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<tr>
<td>Hosto, Leland Erwin August</td>
<td>St. Louis Hospital</td>
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<tr>
<td>Hurst, Martin Joseph</td>
<td>Oklahoma City Hospital</td>
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<tr>
<td>Jaudon, Joseph Cabell, A.B. (Cum Laude)</td>
<td>St. Louis Children's Hospital</td>
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<tr>
<td>Johnson, Frank Craig, A.B.</td>
<td>Iowa Methodist Hospital</td>
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<tr>
<td>Jolynn, Harold Lees</td>
<td>St. Louis Hospital</td>
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<tr>
<td>Kendis, Joseph Bernard</td>
<td>Jewish Hospital</td>
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<tr>
<td>Kippen, Alton Arnold, A.B.</td>
<td>DePaul Hospital</td>
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<tr>
<td>Kirby, Henry Vance, B.S.</td>
<td>Colorado General Hospital, Denver, Colo.</td>
</tr>
<tr>
<td>Knecht, Joseph Wyle, A.B.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Liggett, Robert Samuel, D.D.S.</td>
<td>St. Joseph Hospital, Chicago, Ill.</td>
</tr>
<tr>
<td>Maddox, John Daniel, A.B., B.S.</td>
<td>Kansas City General Hospital, Kansas City, Mo.</td>
</tr>
<tr>
<td>Martin, Christopher Harold, A.B.</td>
<td>Strong Memorial Hospital, Rochester, N.Y.</td>
</tr>
<tr>
<td>McIntire, Leonard Rolla, A.B.</td>
<td>Santa Clara County Hospital, San Jose, Cal.</td>
</tr>
<tr>
<td>McClennor, Carl Scott, A.B., B.S.</td>
<td>Henry Ford Hospital, Detroit, Mich.</td>
</tr>
<tr>
<td>Merrell, Ralph Rees, A.B.</td>
<td>Latter Day Saints Hospital, Salt Lake City, Utah</td>
</tr>
<tr>
<td>NAME</td>
<td>INTERNATIONAL</td>
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<tr>
<td>Miller, Alvin Ralph, A.B.</td>
<td>St. Louis City Hospital</td>
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<tr>
<td>Minton, Robert Slater</td>
<td>St. Louis City Hospital</td>
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<tr>
<td>Motchan, Louis Alan, A.B.</td>
<td>St. Louis City Hospital</td>
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<tr>
<td>Oderr, Charles Patchin</td>
<td>Union Memorial Hospital, Baltimore, Md.</td>
</tr>
<tr>
<td>Penn, Lloyd Lyttleton, A.B.</td>
<td>St. Louis City Hospital</td>
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<tr>
<td>Peeples, Allen William</td>
<td>St. John's Hospital, Fargo, N. D.</td>
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<tr>
<td>Pettito, John Carl, Jr., B.S.</td>
<td>St. Joseph's Hospital, Paterson, N. J.</td>
</tr>
<tr>
<td>Richardson, Lyman King, A.B.</td>
<td>Barnes Hospital</td>
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<tr>
<td>Roufa, Joseph Frederick, A.B.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Sakimoto, Richard Yoshitaka, B.S.</td>
<td>St. Mary's Group of Hospitals</td>
</tr>
<tr>
<td>Schroeder, Charles Morrison, A.B.</td>
<td>Hospital of the Protestant Episcopal Church, Philadelphia, Pa.</td>
</tr>
<tr>
<td>Seabough, Dayton Russly, A.B.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Senturia, Hyman R., A.B. (Cum Laude)</td>
<td>Cincinnati General Hospital, Cincinnati, Ohio</td>
</tr>
<tr>
<td>Sinclair, Richard Clyde</td>
<td>DePaul Hospital</td>
</tr>
<tr>
<td>Smith, Richard Odell</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Smith, Robert Sydney, A.B., B.Sc. (Summa Cum Laude)</td>
<td>Barnes Hospital</td>
</tr>
<tr>
<td>Smith, William Russell</td>
<td>Royal Victoria Hospital, Montreal, Can.</td>
</tr>
<tr>
<td>Stuart, Samuel Edwin, B.S.</td>
<td>St. Louis City Hospital</td>
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<tr>
<td>Terry, Robert Todd, A.B.</td>
<td>St. Luke's Hospital</td>
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<tr>
<td>Timm, Oreon Karl</td>
<td>St. Louis County Hospital</td>
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<tr>
<td>Van Matre, Reber Miller, B.S.</td>
<td>St. Louis City Hospital</td>
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<tr>
<td>Wachter, Harry Ewing, A.B.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Warren, Wirt Adrien, A.B.</td>
<td>St. Mary's Group of Hospitals</td>
</tr>
<tr>
<td>Wenner, William Franklin, A.B., Ph.D.</td>
<td>Instructor, Department of Oto-Laryngology</td>
</tr>
<tr>
<td>Westbrook, Edwin Ruthven, A.B.</td>
<td>DePaul Hospital</td>
</tr>
<tr>
<td>Westfall, Marvin Ford, B.S.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Wilson, Lawrence Montford</td>
<td>St. Luke's Hospital</td>
</tr>
<tr>
<td>Wilson, Wilburn Joseph, B.S.</td>
<td>Thomas Dee Hospital, Ogden, Utah</td>
</tr>
<tr>
<td>Wimp, Jesse John, B.S.</td>
<td>St. Luke's Hospital</td>
</tr>
<tr>
<td>Wulf, George John Leonard, Jr., A.B.</td>
<td>Kansas City General Hospital, Kansas City, Mo.</td>
</tr>
<tr>
<td>Zingale, Frank George, B.S.</td>
<td>St. Louis City Hospital</td>
</tr>
<tr>
<td>Zukovich, George Edward</td>
<td>St. Louis County Hospital</td>
</tr>
<tr>
<td>Zurbrugg, Earl Benjamin, B.S.</td>
<td>St. Luke's Hospital, Cleveland, Ohio</td>
</tr>
</tbody>
</table>

The degree of Bachelor of Science in Medical Science was conferred upon the following, June 6, 1933:

<table>
<thead>
<tr>
<th>NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams, Julia Lindsay</td>
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<tr>
<td>Bald, Robert Desmond</td>
</tr>
<tr>
<td>Holden, Raymond Francis, Jr.</td>
</tr>
</tbody>
</table>

Total, 3

PRIZES AWARDED AT COMMENCEMENT

June 6, 1933

GILL PRIZE IN PEDIATRICS
Russell John Blattner, A.B.
Harry Ewing Wachter, A.B.

GILL PRIZE IN ANATOMY
Stephen Stuart Ellis, A.B.

ALPHA OMEGA ALPHA PRIZE
Robert Sydney Smith, A.B., B.Sc.
GENERAL STATEMENT
HISTORY AND ORGANIZATION

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

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

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

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

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

In the meantime the University had been growing, adding new departments, and receiving additional endowments. The Law School was organized in 1867; the Polytechnic School, now known as the Schools of Engineering and Architecture, in 1870; the School of Fine Arts in 1879; the School of Botany in 1885. The St. Louis Medical College, founded in 1842, was admitted as a department of the University in 1891, and the Missouri Dental College in 1892. In 1899 the Missouri Medical College, which was founded in 1840, was united with the St. Louis Medical College to form the Medical School of Washington University. In the autumn of 1909 the St. Louis School of Philanthropy was taken over from the control of the University of Missouri, and affiliated with Washington University as the School of Social Economy; in February, 1913, it was made a department of the University. By action of the Corporation on February 5, 1915, this School was discontinued as a department of the University at the close of the academic year 1914-15. The Division of University Extension was formally organized with both Evening and Saturday Courses in the fall of 1915. On February 16, 1931, the name of the Division of University Extension was changed to the University College and power to recommend candidates for degrees was granted. The School of Commerce and Finance was organized March 30, 1917, and formally opened in September, 1917. July 1, 1926, the name was changed to the School of Business and Public Administration. By act of the Corpora-
tion on April 25, 1918, the terms, the School of Law, the School of Medicine, the School of Dentistry were adopted as the official names of what were previously known as the Law School, the Medical School, the Dental School. While graduate work leading to the Master’s and Doctor’s degrees had been effectively done for many years in a number of the University’s departments of instruction, a graduate school was not officially organized until June 6, 1922, at which time the Corporation passed an ordinance creating the School of Graduate Studies and providing for its government and administration. By act of the Corporation, March 2, 1923, there was established a separate Graduate School of Economics and Government, with a Residence Foundation in the city of Washington for the third- or thesis-year students, in order that they might take advantage of the facilities offered at the National Capital for the investigation of the problems involved in their subjects. After a year’s experience it became evident that, through the importance and development of this work and the difficulties of administration at a distance, it would be advisable that the School should be organized as a separate institution. This was accomplished in 1924, under the name The Robert Brookings Graduate School of Economics and Government which was later merged with the Institute of Economics and the Institute for Government Research, the three now being conducted under the name of The Brookings Institution. The first session of the Summer School was held in the summer of 1924. The School of Nursing, which was started in 1905, was established by vote of the Corporation as a degree-conferring school, on April 10, 1924.

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

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

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

In 1914 the Washington University School of Medicine moved from its old location on the corner of Eighteenth and Locust Streets to the new buildings facing Forest Park on the corner of Kingshighway Boulevard and Euclid Avenue. The three buildings of the School of Medicine form a part of a medical group, which includes in addition the Barnes Hospital, the St. Louis Children's Hospital, the St. Louis Maternity Hospital, the McMillan Eye, Ear, Nose, and Throat Hospital, the Oscar Johnson Institute for Research in Ophthalmology and Oto-Laryngology, and the Edward Mallinckrodt Institute of Radiology. The McMillan Eye, Ear, Nose, and Throat Hospital, the Oscar Johnson Institute, and the Edward Mallinckrodt Institute of Radiology are owned by the University. The Barnes Hospital, the St. Louis Children's Hospital and the St. Louis Maternity Hospital have entered into an affiliation with the School of Medicine by which the Faculty of the School of Medicine constitutes the medical staffs and supplies laboratory service. The hospitals permit the School of Medicine to use their wards for teaching and investigation.

The Edward Mallinckrodt Institute of Radiology provides the radiological service for the hospitals of the University group and contains laboratories for research in the physics
and biology of radiation. The combined building of the McMillan Eye, Ear, Nose, and Throat Hospital and the Oscar Johnson Institute was completed during the year 1931.

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

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

Graduates of the St. Louis Medical College, number 2,125; of the Missouri Medical College, 2,915; and of the Medical Department of Washington University, 1,805.

THE BUILDINGS OF THE SCHOOL OF MEDICINE

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

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

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

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

THE EDWARD MALLINCKRODT INSTITUTE BUILDING accommodates the Department of Radiology.
NURSES' RESIDENCE

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

CLINICAL FACILITIES

The affiliation of the Barnes Hospital, the St. Louis Children's Hospital, the St. Louis Maternity Hospital, the McMillan Eye, Ear, Nose, and Throat Hospital, and the Oscar Johnson Institute for research in Ophthalmology and Otolaryngology, 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 Otolaryngology, with their associates and assistants.

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

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

THE BARNES HOSPITAL

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

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

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

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

The Hospital admits patients fifteen years of age or over, suffering from general medical or surgical diseases. Contagious patients are not admitted. In the admission of patients, no distinction is made as to color, race, or creed. During the year 1933, 6,590 patients were admitted for treatment and care.

THE ST. LOUIS CHILDREN’S HOSPITAL

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

Infants and children of all ages up to fifteen years are admitted without distinction. Special wards are provided for private patients, negro patients, and children suffering from contagious diseases. During the year 1933, 3,598 patients were admitted for treatment and care.

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

THE ST. LOUIS MATERNITY HOSPITAL

The St. Louis Maternity Hospital is at the corner of Kingshighway Boulevard and Euclid Avenue, facing Forest Park, between the Barnes and McMillan Hospitals. The Hospital has accommodations for 104 women and an equal number of newly born babies. Thirty beds are for private patients.

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

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

During the year 1933, 1,860 cases were admitted to the St. Louis Maternity Hospital.

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

Construction of the McMillan Hospital and the Oscar Johnson Institute was completed during 1931. The Hospital and
Research Institute are housed in a single thirteen-story building which is owned by Washington University. The Out-Patient Departments of Oto-Laryngology and Ophthalmology occupy the basement and first floor and are operated as an integral part of the Washington University Clinics.

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

WASHINGTON UNIVERSITY CLINICS

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

The Washington University Clinics function as the outpatient departments of all of 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.

During the year 1933 there were 124,264 visits of patients to the Clinics.

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

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 School of Medicine also nominates one-half of the visiting staff of the City Isolation Hospital and the members of the faculty so appointed give clinical instruction in the infectious diseases to sections of students in the School of Medicine. The Isolation Hospital has provision for 250 beds.

The facilities of the City Sanitarium for Mental Diseases are utilized for instruction in neuropsychiatry through those members of the University faculty who hold staff appointments. The bed capacity of the City Sanitarium is 3,300.
The Library contains (October 1, 1933) 49,015 bound volumes and receives 502 of the most important medical periodicals, selected with reference to the needs of students and investigators. Of these 435 are in complete series. Including obsolete journals, there are 713 complete sets.

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

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

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

The Beaumont Room, adjoining the main reading room, contains manuscripts, letters, and other valuable material of the pioneer American physiologist, William Beaumont, presented to the University by his granddaughter, the late Lily Beaumont Irwin. The original notes made during the investigations on the stomach of Alexis St. Martin form part of the
collection. Here also may be seen the portrait of Beaumont by Chester Harding.

Other libraries in St. Louis containing literature relating to medicine, which are available to students, either directly or through the Library of the School, are the following:
- The Library of Washington University, Skinker Road.
- The St. Louis Medical Library, 3839 Lindell Boulevard.
- The St. Louis Public Library, Olive and Fourteenth Streets.
- The Library of the Missouri Botanical Garden, Shenandoah and Tower Grove Avenues.
- The Mercantile Library, Broadway and Locust Street.

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

MUSEUMS AND COLLECTIONS

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

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

The Museum of Pathology contains specimens prepared and catalogued for use in the teaching of pathological anatomy. Specimens needed by any department of the School for demonstrations or lectures may be obtained from the museum under regulations similar to those in force in the Library. The Departments of Surgery and Obstetrics have aided in the collection of material suitable for the teaching of these subjects and other special departments have the opportunity to cooperate in making similar collections. Diseases of bones are well illustrated by a large number of specimens collected during the early history of the School by Dr. Charles A. Pope and Dr. John T. Hodgen. A section of the museum contains experimental pathological lesions.
WASHINGTON UNIVERSITY MEDICAL SOCIETY

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

PHYSICAL EDUCATION AND ATHLETICS

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

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

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

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

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

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

**UNIVERSITY HEALTH SERVICE**

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

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

For the Health Service thus outlined a charge of $4.00 a year for each student registering in degree-conferring departments will be required, payable at time of registration for the first semester.
REQUIREMENTS FOR ADMISSION TO SCHOOL OF MEDICINE

The first year class is limited to eighty-two students. Since the number of applicants considerably exceeds the number who can be accommodated, those applicants are selected for acceptance who, on the basis of scholarship and other qualities, appear best fitted to take up the study of medicine. Applications for admission should be filed at as early a date as possible, and under all circumstances before June 10th of the year during which admission is sought. Applicants will be required to take the aptitude test of the Association of American Medical Colleges, except where specifically excused by the school. An applicant acceptable to the faculty is required to make a deposit of fifty dollars, which shall be in the hands of the Registrar within two weeks after notification of acceptance. This deposit of fifty dollars will be applied toward the first payment of tuition, and will not be returnable.

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

Students may be admitted to the first year class on compliance with the following requirements:

1. The completion of college courses equivalent or approximately equivalent to those given in leading colleges or universities, leading to a Bachelor’s degree. The college work must have included not less than the equivalent of 6 semester hours of English, 10 of German or French, 15 of Chemistry (including elementary quantitative analysis and 4 in organic), 8 of General Physics and 8 of Zoology.

2. A limited number of applicants who have completed less than four years of work in an acceptable college may be admitted if they show exceptional aptitude for the study of medicine.

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

Eight semester hours following one high school unit, six semester hours following two high school units, and four semester hours following three high school units.
Students accepted on this basis who present a total of not less than 90 semester hours, 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 requirements for this degree will not usually be attained before the end of the third or fourth year.

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

**English.** One year of English covering composition and rhetoric.

**German or French.** It is highly desirable, if not essential, that students of medicine have such acquaintance with French and German as to enable them to read medical and scientific publications in these languages. Courses extending through two years are usually necessary to acquire a reading knowledge of either language.

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

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

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

**Elective Courses**

It is recommended that students preparing themselves for the study of medicine so arrange their courses as to acquire a more extensive knowledge of the subjects which are the foundation of the medical sciences than can be obtained in the courses included in the minimum requirement. The field covered by the practice of medicine and by the medical sciences is so broad that those whose special interests and capabilities lead them to an intensive study of either physics, chemistry, or biology are sure to find an application for the skill they acquire.
Chemistry has the greatest number of applications and students will therefore find it to their advantage, wherever possible, to add other courses in chemistry, particularly physical chemistry, to those previously mentioned.

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

Courses in psychology, general physiology, and general 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 June 10 of the year during which admission is sought. Only those students who have unconditional standing in the medical schools from which they seek to be accredited will be accepted for admission to advanced classes. An applicant acceptable to the faculty is required to make a deposit of fifty dollars, which shall be in the hands of the Registrar within two weeks after notification
of acceptance. This deposit of fifty dollars will be applied toward the first payment of tuition, and will not be returnable.

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

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

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

Applicants for advanced standing are required to furnish, in addition to the credentials required for admission, creden-
tials 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 91.)

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 GRADUATION

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

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

HOSPITAL APPOINTMENTS

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.

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, amounting to $400.00, is used to pay the tuition of students who may be in need of assistance while attending the Washington University School of Medicine. The selection of the students to receive the benefit of such sum and the amount awarded such students are determined by the Chancellor of the University on the recommendation of the Dean and the Executive Faculty of the School of Medicine. Applications should be filed with the Dean.

The Jackson Johnson Fund. Under the will of the late Jackson Johnson the sum of $250,000 was donated to the School of Medicine, the income of which is to be used to aid worthy and desirable students in acquiring and completing their medical education. Deserving students in the upper three classes of the School of Medicine may on recommendation of the Committee on Loans and Scholarships and the Dean of the School of Medicine be granted loans from this fund sufficient to pay a portion of the tuition fees.

The Eliza McMillan Student Aid Fund. From the bequest of the late Mrs. Eliza McMillan, the annual income on $7,000 provides a scholarship for a deserving woman student in the School of Medicine. 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.

REGISTRATION

Registration for the first half year, 1934-35, is scheduled for Tuesday, September 25, and Wednesday, September 26, 1934; for the second half year, Monday, February 4, and Tuesday, February 5, 1935. 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 exceed one-half of the unexpired balance of the tuition for the term.

Checks should be made payable to Washington University.

MATRICULATION FEE

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

TUITION FEE

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.

STUDENT ACTIVITIES FEE

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, opthalmoscopes, 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>Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$400.00</td>
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<tr>
<td>Breakage Deposit</td>
<td>10.00</td>
</tr>
<tr>
<td>Matriculation Fee (payable once)</td>
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</tr>
<tr>
<td>Health Service Fee</td>
<td>4.00</td>
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<tr>
<td>Books and Instruments</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 $106.00 an academic year, payable in two instalments in advance, at the beginning of the first trimester and on February 1. Reservations are made upon the express understanding that the applicant agrees to occupy the room reserved until the close of the ensuing academic year. Application for reservation should be made to the Registrar of the School of Medicine, and must be accompanied by a reservation fee of $10.00. This fee will be returned, should the room not be assigned, but it will not be refunded for any other reason. If a room is assigned, the fee will not apply on the room rent, but will be held by the University to cover losses resulting from possible damage to the room or to the furniture. Any portion not so used will be refunded.

¹This figure does not include microscope.
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. 46, 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 6 to 8 hours per week. Patients are examined by the student and treated under the direction of the attending staff. During the second half of this period, the students are assigned to the various wards of the hospitals, and each section of the class serves 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 105.

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.
## SUMMARY OF THE MEDICAL CURRICULUM, 1933-34

<table>
<thead>
<tr>
<th></th>
<th>FIRST YEAR</th>
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<tr>
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<td>Pathology</td>
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<tr>
<td>Physiology</td>
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<td>64</td>
<td>Pharmacology</td>
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<tr>
<td>Military Science</td>
<td>(33)</td>
<td></td>
<td>Medicine</td>
<td>209</td>
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<td></td>
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<tr>
<td>M. S. &amp; T.</td>
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<td>Neur. &amp; Psychiatry</td>
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<td>Neurology</td>
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<tr>
<td>Dermatology</td>
<td></td>
<td>11</td>
<td>Surgery</td>
<td>231</td>
</tr>
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</table>
| Surgery             |            | 291             | Obstetrics and Gynecology | 154
| Obstetrics and      |            |                 | Pediatrics   | 66              |
| Gynecology          |            |                 | Ophthalmoscopy | 12 |
| Ophthalmology       |            |                 | Electives   | 300             |
| Oto-Laryngology     |            |                 | Military Science | (33) |
| Pediatrics          |            |                 | Total excluding |          |
| Pharmacology        |            |                 | M. S. & T.  | 1137            |
| Public Health       |            | 33              |             |                 |
| Medical             |            |                 |             |                 |
| Jurisprudence       |            | 11              |             |                 |
| Stomatology         |            | 11              |             |                 |
| Anatomy             |            | 22              |             |                 |
| Military Science    | (33)       |                 |             |                 |
|                     | Total excluding |              |             |                 |
| M. S. & T.          |            | 1028            |             |                 |

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

ANATOMY

ROBERT J. TERRY, M.D. . . . . . . . Professor of Anatomy
EDMUND V. COWDRY, Ph.D. . . . . . . Professor of Cytology
MILDRED TROTTER, Ph.D. . . . . . . . Associate Professor of Anatomy
GORDON H. SCOTT, Ph.D. . . . . . . . Associate Professor of Cytology
JAMES L. O'LEARY, Ph.D., M.D. . . Assistant Professor of Cytology
GEORGE D. WILLIAMS, M.D., Ph.D. . Assistant Professor of Anatomy
ALFRED M. LUCAS, Ph.D. . . . . . . . Assistant Professor of Cytology
LEITH H. SLOCUMB, M.D. . . . . . . . Instructor in Anatomy
MIRIAM SCOTT LUCAS, Ph.D. . . . . . Instructor in Cytology
GEORGE A. SEIB, M.D. . . . . . . . . . Instructor in Anatomy
CECIL M. CHARLES, Ph.D., M.D. . . Instructor in Anatomy
EDWARD A. MILLER, B.S. . . . . . . . Student Assistant in Anatomy
VERNON O. LUNDMARK . . . . . . . Student Assistant in Anatomy

FIRST YEAR

1. HUMAN DISSECTION. The course offers opportunity for the systematic study of the gross structure of the human body. Each student is provided with material for the preparation and study of the integuments; muscles, joints, and skeleton; the viscera; the vascular system and peripheral nerves; sense organs. Lectures, demonstrations, and recitations serving to emphasize and correlate the observations made in the laboratory follow the practical work. Dissection 12 hours a week in the first trimester; 9 hours in the second and third. Lectures twice a week throughout the year. 395 hours.

(Professor Terry, Professor Trotter, Professor Williams, Dr. Seib, Mr. Miller)

2. HISTOLOGY. A laboratory course occupying five mornings a week during the first semester. 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

1 On leave of absence.
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.

(Professor Terry)

ELECTIVE COURSES

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

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

(Professor Terry, Professor Trotter, Professor Williams)

7. Advanced Work in Histology, Cytology, Embryology, and Neurology. A study of the literature on certain selected problems, and laboratory work, including the preparation of material for microscopic study. Hours to be arranged.
8. Research. Properly qualified students will be given opportunity to carry on investigations in the fields of Histology, Cytology, Embryology, and Neurology.

10. Graduate Courses in Anatomy and in Cytology, including the seminar. See Bulletin of Washington University School of Graduate Studies.

BIOLOGICAL CHEMISTRY

PHILIP A. SHAFFER, Ph.D. . . . . Professor of Biological Chemistry
EDWARD S. WEST, Ph.D. . Associate Professor of Biological Chemistry
ETHEL RONZONI BISHOP, Ph.D. 

FRANK URBAN, Ph.D. . . Assistant Professor of Biological Chemistry
IRENE KOECHIG FREIBERG, A.M. . . Instructor in Biological Chemistry
ELLEN EHRENFEST, M.S.1 . . . Assistant in Biological Chemistry

FIRST YEAR

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

(Professor Shaffer, Professor West, Professor Ronzoni-Bishop, Professor Urban)

ELECTIVE COURSES

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

1 Resigned, April 1, 1934.
(4a) The Carbohydrates.  (Professor West)
(4b) Selected Methods of Analysis for Carbohydrates, Proteins and Fats.  (Professor West)
(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

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

FIRST AND SECOND YEARS

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

(Professor Erlanger, Professor White, Professor Gilson)

SECOND YEAR

3. PHYSIOLOGY. Laboratory Course. This course must be taken in conjunction with Physiology 2. The experiments are so arranged as to serve at one and the same time to illustrate fundamental principles of physiology and to familiarize the student with the more important bio-physical methods employed in experimental physiology and medicine. The class works in groups of two. Each group has its individual table, which is supplied with all the apparatus necessary for the performance of the general experiments. To the groups is assigned in rotation the apparatus needed for the performance of special experiments. As far as practicable the students serve as subjects of the special experiments and study upon themselves by quantitative methods certain phases of the physiology of muscle and nerve, and of the circulation, respiration, central nervous system, and sense organs. The instruction in the laboratory is largely individual. Weekly conferences are held for the discussion and correlation of the experimental data. First trimester. 138 hours.

(Professor Erlanger, Professor White, Professor Gilson
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 prob-
lems or of problems which the department is prepared to suggest.

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

BACTERIOLOGY AND IMMUNOLOGY

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

EVERETT S. SANDERSON, Ph.D.  
Assistant Professor of Bacteriology and Immunology

DONALD HETLER, Ph.D.  
Assistant Professor of Bacteriology and Immunology

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

PHILIP L. VARNEY, Ph.D.  
Instructor in Bacteriology and Immunology

ALEXANDER SILVERGLADE, B.S.  
Assistant in Bacteriology and Immunology

GRACE MEHRTECH, A.M.  
Assistant in Bacteriology and Immunology

G. ALBIN MATSON, A.M.  
Assistant in Bacteriology and Immunology

FELLOW

GEORGE A. HUNT, Ph.D.  Research Fellow in Bacteriology and Immunology

SECOND YEAR

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

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

(Professor Bronfenbrenner, Professor Sanderson, Professor Hetler, Dr. Burdon, 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 Sanderson, Professor Hetler, Dr. Burdon, Dr. Varney)

1 Resigned, April 1, 1934.
PUBLIC HEALTH

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

EVERETT S. SANDERSON, Ph.D.  Assistant Professor of Public Health

DONALD HETLER, Ph.D.  Assistant Professor of Public Health

KENNETH L. BURDON, Ph.D.  Instructor in Public Health

PHILIP L. VARNEY, Ph.D.  Instructor in Public Health

ADRIEN BLEYER, M.D.  Lecturer in Public Health

CHARLES H. PHILPOTT, Ph.D.  Lecturer in Public Health

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

HIROMU TSUCHIYA, Sc.D.  Research Fellow in Public Health

THIRD YEAR

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

(Professor Bronfenbrenner, Professor Sanderson and Staff)

ELECTIVE COURSES

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

(Professor Philpott, Dr. Tsuchiya)

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 Sanderson, Professor Hetler, Dr. Varney)

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

(Professor Bronfenbrenner and Staff)

^1 Resigned, April 1, 1934.
PATHOLOGY

LEO LOEB, M.D. . . . . Edward Mallinkrodt Professor of Pathology
HOWARD A. MCCORDOCK, M.D. . . . . Associate Professor of Pathology
WALTER J. SIEBERT, M.D. . . . . Assistant Professor of Pathology
MARGARET G. SMITH, M.D. . . . . Assistant Professor of Pathology
THOMAS B. POTTS, M.D. . . . . Lecturer in Pathology
HILDA FRIEDMAN MARGOLIN, M.S. . . . . Assistant in Pathology
ELLIS S. MARGOLIN, M.D. . . . . Assistant in Pathology
ELIZABETH MOORE, M.D. . . . . Assistant in Pathology
PAUL A. WHEELER, M.D. . . . . Assistant in Pathology
RUSSELL J. BLATTNER, M.D. . . . . Assistant in Pathology
R.AYMOND F. HOLDEN, JR., M.D. . . . . Assistant in Pathology
ABLON A. KIPPEN, M.D. . . . . Assistant in Pathology

SECOND YEAR

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

(a) LECTURES AND LABORATORY WORK. Instruction includes lectures, demonstrations, recitations, discussion of recent literature, and work in the laboratory. General pathology will be taught by lectures and demonstrations given in association with the study of the gross and histological characters of lesions. 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 labo-

1 July 1 to December 31, 1933.
ratory. 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 SCHOOL OF MEDICINE

THE EDWARD MALLINCKRODT DEPARTMENT OF PHARMACOLOGY

CARL F. CORI, M.D. . . . . . . Professor of Pharmacology
HELEN TREDWAY GRAHAM, Ph.D. . Assistant Professor of Pharmacology
CHARLES W. DUDEN, M.D. . . . . . Lecturer in Pharmacology
ALBERT H. HEGNAUER, Ph.D. . . . . . Instructor in Pharmacology
ROBERT E. FISHER, A.B. . . . . . Student Assistant in Pharmacology
ALEXANDER J. STEINER, M.S. . . . . . Student Assistant in Pharmacology

FELLOW
GERTY T. CORI, M.D. . . . . . Research Fellow in Pharmacology

SECOND AND THIRD YEARS

1. PHARMACOLOGY. (a) Lectures, recitations, and demonstrations covering the general field of pharmacology. The action of each of the chief medicinal drugs on the individual organs or functions of the body is studied in detail, the subject matter of the lectures being correlated with the work of the laboratory. Attention is given to the methods of diagnosis and treatment of poisoning by the commoner drugs. The application of pharmacological principles to clinical medicine is emphasized. Students are required to familiarize themselves with prescription writing and the dosage of the more important preparations. Prerequisite, Anatomy, Biological Chemistry, and Physiology 2 and 3. Courses (a) and (b) are required of medical students, but course (a) may be taken alone by special students. Four hours a week during the second trimester of the second year and two hours a week during the second trimester of the third year. 66 hours.

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

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

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

THE JOHN T. MILLIKEN DEPARTMENT OF MEDICINE

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

DAVID P. BARR, M.D. . . . . . Busch Professor of Medicine
ALBERT E. TAUSIG, M.D. . . . Professor of Clinical Medicine
WARREN P. ELMER, M.D. Associate Professor of Clinical Medicine
HARRY L. ALEXANDER, M.D. Associate Professor of Medicine
JACOB J. SINGER, M.D. . . . Associate Professor of Clinical Medicine
WILLIAM H. OLMSTED, M.D. Associate Professor of Clinical Medicine
DREW W. LUTEN, M.D. . . . Associate Professor of Clinical Medicine
JOSEPH W. LARIMORE, M.D. Associate Professor of Clinical Medicine
FRANK H. EWERHARDT, M.D. Assistant Professor of Physical Therapeutics

HAROLD A. BULGER, M.D. . . . Assistant Professor of Medicine
JOHN V. LAWRENCE, M.D. . . . Assistant Professor of Medicine
LAWRENCE D. THOMPSON, M.D. Assistant Professor of Clinical Medicine
RALPH S. MUCKENFUS, M.D. Assistant Professor of Medicine
WALTER BAUMGARTEN, M.D. Instructor in Clinical Medicine
JEROME E. COOK, M.D. . . . Instructor in Clinical Medicine
LLEWELLYN SALE, M.D. . . . Instructor in Clinical Medicine
LOUIS H. HEMPELMANN, M.D. Instructor in Clinical Medicine
WALTER FISCHEL, M.D. . . . Instructor in Clinical Medicine
FRANK D. GORHAM, M.D. . . . Instructor in Clinical Medicine
CHARLES H. EYERMANN, M.D. Instructor in Clinical Medicine
ARTHUR E. STRAUSS, M.D. . . . Instructor in Clinical Medicine
SAMUEL B. GRANT, M.D. . . . Instructor in Clinical Medicine
OLIVER H. CAMPBELL, M.D. . . . Instructor in Clinical Medicine
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 physi-

1 Effective January 10, 1934.
ology and anatomy and their relation to diagnosis. Two hours a week during the second and third trimesters. 44 hours. (Professor Barr, Professor Schwab, 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, faeces and puncture fluids. Material is obtained from cases in the hospital and clinics. Considerable 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 subdivided into three parts, two of which are assigned to the wards of Barnes Hospital where they are given practice and instruction in history taking, physical examination and elementary diagnosis. One day each week, there is also special instruction in metabolic diseases, in cardiology and in infectious diseases at the City Isolation Hospital. The third part of the group is assigned to the Clinics where the students take an active part, under strict supervision, in the laboratory work. Rotation is arranged so that each student has experience in all services. Two hours five days a week for one trimester. 110 hours. (Professor Barr and Staff)

7. THERAPEUTICS. A course designed to give students a general survey of the methods and the principal agencies em-
ployed 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 Olmstead)

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. Each student in this course is required to present one term paper complete and
ready for publication, if so desired, upon a subject selected by himself. 231 hours.

(Professor Barr, 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)
THE SCHOOL OF MEDICINE

NEUROLOGY AND PSYCHIATRY

SIDNEY I. SCHWAB, M.D. . . . . . Professor of Clinical Neurology
ANDREW B. JONES, M.D. . . . Assistant Professor of Clinical Neurology
ARCHIE D. CARR, M.D. . . . Instructor in Clinical Neurology
PAUL E. KUBITSCHEK, M.D. . . . Instructor in Neuropsychiatry
J. WILLIAM BECKMANN, M.D. . . Instructor in Clinical Neurology
VAL B. SATTERFIELD, M.D. . . . Instructor in Clinical Neurology
JAMES LEWALD, M.D. . . . Assistant in Clinical Psychiatry
LEE D. CADY, M.D. . . . Assistant in Clinical Neurology
BARBARA S. KENDALL, Ed.M. . Assistant in Applied Psychology in Neurology
LOUIS L. TUREEN, M.D.¹ . . . . . Assistant in Clinical Neurology

THIRD YEAR

1. NEUROLOGY.
(a) Introductory course in neurology and psychiatry, lectures, and demonstrations in clinical anatomy and physiology of the nervous system. Methods of neurological examination, history taking, study of case histories, etc. One hour a week, first and second trimesters. 22 hours. (Professor Schwab)
(b) Neuropathology. Laboratory demonstration of the material covered in Course (a), with a study of gross and microscopic lesions of the nervous 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 trimester. 22 hours. (Professor Siebert and 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 neurosis are discussed with case presentation at the City Sanitarium. Neuroses are presented in the third trimester using illustrative case histories. Two hours a week during the first and third trimesters. 44 hours. (Dr. Beckmann)

FOURTH YEAR

3. NEUROLOGY
(a) Neurological ward rounds with the medical group. Neurological and such psychiatrical cases as are suitable for

¹ Effective January 10, 1934.
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 COURSES

4. Psychiatric Clinic. Selected cases illustrating the various groups of mental disorders are demonstrated and discussed. This clinic is held at the St. Louis City Sanitarium. Two and one-half hours a week during the second trimester. 28 hours.

(Dr. Lewald)

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

MARTIN F. ENGMAN, M.D. . . . Professor of Clinical Dermatology
WILLIAM H. MOOK, M.D. . Assistant Professor of Clinical Dermatology
RICHARD S. WEISS, M.D. . Assistant Professor of Clinical Dermatology
ADOLPH H. CONRAD, M.D. . Instructor in Clinical Dermatology
WILLIAM G. COLEMAN, M.D. . Assistant in Clinical Dermatology
CLINTON W. LANE, M.D. . Assistant in Clinical Dermatology
IRWIN H. ESKELES, M.D. . Assistant in Clinical Dermatology
MARTIN F. ENGMAN, JR., M.D. . Assistant in Clinical Dermatology

THIRD YEAR

(a) Dermatology. A lecture course on diseases of the skin and on syphilis, by which the student is prepared to understand clinical dermatology in the succeeding year. This course is a general survey of the etiology, symptomatology, pathology, and treatment of skin diseases and the history and pathology of syphilis. Third trimester. 11 hours.

(Professor Engman)

FOURTH YEAR

(b) Dermatology. An elective course, conducted in the Clinics, in which the student examines patients and is instructed in the diagnosis and treatment of diseases of the skin.
Ten hours a week for one-third trimester. 34 hours. Other hours by arrangement.

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

THE MARY CULVER DEPARTMENT OF SURGERY

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

Evarts A. Graham, M.D. . . . . Bixby Professor of Surgery
Ernest Sachs, M.D. . . Professor of Clinical Neurological Surgery
Major G. Seelig, M.D. . . Professor of Clinical Surgery
John R. Caulk, M.D. . Professor of Clinical Genito-Urinary Surgery
Vilray P. Blair, M.D. . Professor of Clinical Surgery
Malvern B. Clopton, M.D. . Professor of Clinical Surgery
J. Albert Key, M.D. . Professor of Clinical Orthopedic Surgery
Glover H. Copher, M.D. . Associate Professor of Surgery
Willard Bartlett, M.D. . Assistant Professor of Clinical Surgery
Arthur O. Fisher, M.D. . Assistant Professor of Clinical Surgery
Charles A. Stone, M.D.

Assistant Professor of Clinical Orthopedic Surgery

Duff S. Allen, M.D. . . Assistant Professor of Clinical Surgery
Dalton K. Rose, M.D.

Assistant Professor of Clinical Genito-Urinary Surgery

Warren H. Cole, M.D. . . Assistant Professor of Surgery
Isaac Y. Olch, M.D. . . Assistant Professor of Surgery
Robert Elman, M.D. . Assistant Professor of Surgery
Peter Heinbecker, M.D. . Assistant Professor of Surgery
Clarence H. Crego, M.D.

Assistant Professor of Clinical Orthopedic Surgery

J. Barrett Brown, M.D. . . Assistant Professor of Clinical Surgery
Warren R. Rainey, M.D. . . Instructor in Clinical Surgery
J. Edgar Stewart, M.D. . . Instructor in Clinical Orthopedic Surgery
Theodore P. Brookes, M.D. . Instructor in Clinical Orthopedic Surgery
Frederick A. Jostes, M.D. . Instructor in Clinical Orthopedic Surgery
Roland M. Klemme, M.D. . Instructor in Clinical Neurological Surgery
Nathan A. Womack, M.D. . . . . Instructor in Surgery
V. Rogers Drakin, M.D. . Instructor in Clinical Genito-Urinary Surgery
J. Hoy Sanford, M.D. . Instructor in Clinical Genito-Urinary Surgery
Otto J. Wilhelmi, M.D. . Instructor in Clinical Genito-Urinary Surgery
Henry Spence Brookes, Jr., M.D. . Instructor in Clinical Surgery
Jacob G. Probststein, M.D. . Instructor in Clinical Surgery
William G. Hamm, M.D. . Assistant in Clinical Surgery
Newton W. Amos, M.D. . Assistant in Clinical Genito-Urinary Surgery
Franklin E. Walton, M.D. . . . . Assistant in Surgery
Roland W. Stuebner, M.D. . Assistant in Clinical Surgery
Edward L. Keyes, Jr., M.D. . . Assistant in Clinical Surgery
SECOND YEAR

1. INTRODUCTION TO SURGERY. A laboratory, demonstration and lecture course in which are studied certain fundamental processes of physiology and pathology as applied to surgery. Special emphasis is laid on the growth of tissues, with particular reference to wound healing and transplants, the effects of tissue asphyxia and similar subjects. Attention is directed to a study of the processes involved rather than merely to the end results. The students also test and practice various methods of sterilization of hands, instruments, etc., using bacterial cultures as checks on the methods. The course includes the demonstration of patients who illustrate various points under discussion. Five hours weekly during the third trimester. 55 hours.

(Professor Heinbecker)

THIRD YEAR

2. SURGERY. The course is subdivided as follows:

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

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

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

(Professor Cole, Professor Elman)

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1 Resigned December 31, 1933.
(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. 11 hours. This is supplemented by several optional hours at the City Hospital, during which time the extensive fracture material of that hospital is shown to the students.

(Professor 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, as illustrated by ambulatory out-patient cases, are discussed. A weekly exercise during three trimesters. 33 hours.

(Professor Sachs)

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

(Professor Caulk)

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

(Professor Olch)

**FOURTH YEAR**

4. **SURGERY.** The course is subdivided as follows:

(a) **SURGICAL WARDS.** For one trimester the student serves as assistant in the surgical wards from 9 a. m. to 12 m. six days a week. 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 with the anaesthetic, and do some of the surgical dressings. They also attend autopsies performed on the cases studied by them and are required to be present at the weekly pathological conference at which these cases are discussed. (See Pathology 2). One day each week the group spends the period from 9 a. m. to 12 m. at the St. Louis Children's Hospital, where orthopedic cases and general surgical cases are demonstrated. On Friday morning the surgical group attends ward clinics and demonstrations at City Hospital No. 1. 198 hours. (Professor Graham and Staff)

(b) SURGICAL CLINIC. A weekly exercise throughout three trimesters. Students of the fourth year examine the patients and present the cases for discussion. Students of the third year attend this exercise. 33 hours. (Professor Graham)

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

(Professor Key)

ELECTIVE COURSES

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

(Professor Caulk and Assistants)

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

(Professor Sachs, Dr. Klemme)

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)

RADIOLOGY

SHERWOOD MOORE, M.D. . . . . . . . Professor of Radiology
ARTHUR L. HUGHES, D.Sc. . . . . . . . Consulting Physicist
JOSEPH WILLIAM LARIMORE, M.D.
Associate Professor of Clinical Medicine and Assistant Radiologist
HUGH M. WILSON, M.D. . . . . . . . Instructor in Radiology
OSCAR C. ZINK, M.D. . . . . . . . Instructor in Clinical Radiology
C. ALLEN GOOD, JR., M.D. 1 . . . . . . . Assistant in Radiology

FELLOW
TU-SHAN JUNG, M.D. 2 . . . . China Medical Board Fellow in Radiology

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)

OPHTHALMOLOGY

LAWRENCE T. POST, M.D. . . . . Professor of Clinical Ophthalmology and Head of the Department
WILLIAM E. SHAHAN, M.D. . . . . Professor of Clinical Ophthalmology
MEYER WIENER, M.D. . . . . . . . Professor of Clinical Ophthalmology
WILLIAM F. HARDY, M.D. Associate Professor of Clinical Ophthalmology
PERCY WELLS COBB, M.D.
Associate Professor of Applied Bio-physics in Ophthalmology
FREDERICK E. WOODRUFF, M.D.
Assistant Professor of Clinical Ophthalmology
M. HAYWARD POST, M.D. Assistant Professor of Clinical Ophthalmology
MAX W. JACOBS, M.D. Assistant Professor of Clinical Ophthalmology
FREDERICK O. SCHWARTZ, M. D.
Assistant Professor of Clinical Ophthalmology
HARVEY D. LAMB, M.D. Assistant Professor of Ophthalmic Pathology
BENNETT Y. ALVIS, M.D. Instructor in Clinical Ophthalmology
GROVER H. POOS, M.D. 3 . . . . Instructor in Clinical Ophthalmology
WILLIAM M. JAMES, M.D. . . . . Instructor in Clinical Ophthalmology

1 July 1 to December 15, 1933.
2 Effective November 6, 1933.
3 On leave of absence October 1, 1933 to April 1, 1934.
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, Dr. Alvis)

OTO-LARYNGOLOGY

LEE W. DEAN, M.D. . . . . . . Professor of Oto-Laryngology
CORDIA C. BUNCH, Ph.D. Professor of Applied Physics in Oto-Laryngology
HARRY W. LYMAN, M.D. Assistant Professor of Clinical Oto-Laryngology
MILLARD F. ARBUCKLE, M.D. Assistant Professor of Clinical Oto-Laryngology
ARTHUR W. PROETZ, M.D. Assistant Professor of Clinical Oto-Laryngology
ARTHUR M. ALDEN, M.D. Assistant Professor of Clinical Oto-Laryngology
ISAAC D. KELLEY, JR., M.D. Assistant Professor of Clinical Oto-Laryngology

1 Resigned March 7, 1934.
2 Effective January 1, 1934.
THE SCHOOL OF MEDICINE

FRENCH K. HANSEL, M.D.  Assistant Professor of Clinical Oto-Laryngology
GEORGE E. HOURN, M.D.  Assistant Professor of Clinical Oto-Laryngology
LOUIS K. GUGGENHEIM, M.D.  Assistant Professor of Clinical Oto-Laryngology
CHARLES L. DAVIS, M.D.  Instructor in Clinical Oto-Laryngology
BERNARD J. MCMAHON, M.D.  Instructor in Clinical Oto-Laryngology
WILLIAM F. WENNER, Ph.D., M.D.  Instructor in Experimental Physiology in Oto-Laryngology
ALFRED J. CONE, M.D.  Instructor in Clinical Oto-Laryngology
ROSSLEENE A. HETLER, Ph.D.  Instructor in Applied Nutrition in Oto-Laryngology
JAMES B. COSTEN, M.D.  Instructor in Clinical Oto-Laryngology
LOUIS J. BIRNSER, M.D.  Instructor in Clinical Oto-Laryngology
DOROTHY WOLFF, Ph.D.  Instructor in Anatomy in Oto Laryngology
WILLIAM L. HANSON, M.D.  Assistant in Clinical Oto-Laryngology
LOUIS E. FREIMUTH, M.D.  Assistant in Clinical Oto-Laryngology
HELEN GACE, M.D.  Assistant in Clinical Oto-Laryngology
HARRY N. GLICK, M.D.  Assistant in Clinical Oto-Laryngology
ALLEN B. POTTER, M.D.  Assistant in Clinical Oto-Laryngology
LILBURN C. BOEMER, M.D.  Assistant in Clinical Oto-Laryngology
CATHERINE C. BUHRMESTER, M.S.  Assistant in Applied Chemistry in Oto-Laryngology
EVELYN DIXON, M.S.  Assistant in Applied Bacteriology in Oto-Laryngology
ROBERT VOTAW, M.D.  Assistant in Oto-Laryngology
PAUL R. NEMOURS, M.D.  Assistant in Clinical Oto-Laryngology
FREDERICK W. SCHERRER, M.D.  Assistant in Clinical Oto-Laryngology
MARIAN G. PFINGSTEN, A.B.  Assistant in Oto-Laryngology
A. CHESTERFIELD STUTSMAN, M.D.  Assistant in Oto-Laryngology

THIRD YEAR

1. LARYNGOLOGY AND RHINOLOGY. Twenty-two lecture hours given during the third trimester. 22 hours.
(Professor Dean and Staff)

FOURTH YEAR

Oto-Laryngology. Elective course. Instruction is given to small sections of the class. Ten hours a week for one-third trimester. 34 hours.
(Professor Lyman, Professor Arbuckle, Professor Proetz, Professor Alden, Professor Kelley, Professor Hansel, Dr. Cone, Dr. Gage, Dr. Potter, Dr. Glick, Dr. Boemer)

1 On leave of absence.
OBSTETRICS AND GYNECOLOGY

OTTO H. SCHWARZ, M.D. . . . Professor of Obstetrics and Gynecology
HARRY S. CROSSEN, M.D. . . . Professor of Obstetrics and Gynecology
FREDERICK J. TAUSIG, M.D. . Professor of Clinical Obstetrics and Gynecology
GEORGE GELLHORN, M.D. Professor of Clinical Obstetrics and Gynecology
GRANDISON D. ROYSTON, M.D. Associate Professor of Clinical Obstetrics and Gynecology
HUGO EHRENFEST, M.D. Associate Professor of Clinical Obstetrics and Gynecology
QUITMAN U. NEWELL, M.D. Associate Professor of Clinical Obstetrics and Gynecology
FRANK P. McNALLY, M.D. Assistant Professor of Clinical Obstetrics and Gynecology
CHARLES D. O'KEEFE, M.D. Assistant Professor of Clinical Obstetrics and Gynecology
RICHARD PADDOCK, M.D. Assistant Professor of Clinical Obstetrics and Gynecology
OTTO S. KREBS, M.D. . Instructor in Clinical Obstetrics and Gynecology
ADOLPH G. SCHLOSSSTEIN, M.D. Instructor in Clinical Obstetrics and Gynecology
JOHN R. VAUGHAN, M.D. Instructor in Clinical Obstetrics and Gynecology
RAYMOND M. SPIVY, M.D. Instructor in Clinical Obstetrics and Gynecology
T. KENNETH BROWN, M.D. . Instructor in Obstetrics and Gynecology
ROBERT J. CROSSEN, M.D. Instructor in Clinical Obstetrics and Gynecology
CHARLES DRAIBIKIN, M.D. Instructor in Clinical Obstetrics and Gynecology
CARL R. WEGNER, M.D. . Instructor in Obstetrics and Gynecology
JOHN E. HOBBS, M.D. . Instructor in Obstetrics and Gynecology
GROVER B. LIESE, M.D. . Instructor in Obstetrics and Gynecology
DUDLEY R. SMITH, M.D. Instructor in Clinical Obstetrics and Gynecology
FRANCIS J. CANEPA, M.D. Assistant in Clinical Obstetrics and Gynecology
EUGENE A. VOGEL, M.D. Assistant in Clinical Obstetrics and Gynecology
MYRON W. DAVIS, M.D. Assistant in Clinical Obstetrics and Gynecology
KARL J. BALAZS, M.D. . Assistant in Clinical Obstetrics and Gynecology
MELVIN A. ROBBEE, M.D. Assistant in Clinical Obstetrics and Gynecology
FRANZ ARZT, M.D. . Assistant in Clinical Obstetrics and Gynecology
SAMUEL D. SOULE, M.D. . Assistant in Obstetrics and Gynecology
KEVIN C. MORKIN, M.B., B.Ch. Assistant in Clinical Obstetrics and Gynecology
HANS L. KLEINE, M.D. . Assistant in Obstetrics and Gynecology
WILLARD C. SCRIVNER, M.D. . Assistant in Obstetrics and Gynecology
JOHN B. O'NEILL . Assistant in Clinical Obstetrics and Gynecology
RALPH W. SNODGRASS, M.D. . Assistant in Obstetrics and Gynecology
WILLARD O. TIRRILL, M.D. . Assistant in Obstetrics and Gynecology
FRANCES H. STEWART, M.D. Assistant in Clinical Obstetrics and Gynecology
THIRD YEAR

1. OBSTETRICS AND GYNECOLOGY.
   (a) Obstetrics Recitations and Demonstrations. This course consists of recitations and demonstrations based upon assigned reading of a prescribed textbook, and deals with the physiology and pathology of pregnancy, labor, and the puerperium. One hour a week throughout the year. 33 hours.
   (Professor 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.
   (Professor Crossen, Professor Taussig, and Associates)

   (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, Dr. D. R. Smith, Dr. Wegner, Dr. Davis, Dr. Brown, Dr. Krebs, 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 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, Dr. 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 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 McNally, Professor Royston, Professor Gellhorn, Professor Ehrenfest, Dr. Brown, Dr. Wegner)

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

(Professor Crossen, Professor Taussig, Professor Newell, Professor O'Keefe, Dr. R. Crossen)

ELECTIVE COURSES

(a) Obstetrical Clinic. An elective course in which a small section of the class receives practical instruction in the prenatal clinic eight hours a week for one-third trimester. 30 hours. Other hours by arrangement. This work can also be taken in the summer months. (Dr. D. R. Smith and Staff)

(b) Gynecological Clinic. An elective course in which small sections of the class receive practical instruction in the out-
THE SCHOOL OF MEDICINE

patient clinic. Eight hours a week for one-third trimester. 30 hours. Other hours by arrangement. This work can also be taken in the summer months. (Dr. Hobbs and Staff)

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

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

THE EDWARD MALLINCKRODT DEPARTMENT OF PEDIATRICS

W. McKIM MARRIOTT, M.D. . . . . Professor of Pediatrics
BORDEN S. VEEDER, M.D. . . . Professor of Clinical Pediatrics
JEAN V. COOKE, M.D. . . . Associate Professor of Pediatrics
ALEXIS F. HARTMANN, M.D. . . Associate Professor of Pediatrics
THEODORS C. HEMPELMANN, M.D. Associate Professor of Clinical Pediatrics

HUGH McCULLOCH, M.D. Assistant Professor of Clinical Pediatrics
ADRIEN BLEYER, M.D. Instructor in Clinical Pediatrics
PARK J. WHITE, M.D. Instructor in Clinical Pediatrics
PAUL J. ZENTAY, M.D. Instructor in Clinical Pediatrics
PAUL KUBITSCHEK, M.D. Instructor in Pediatrics
WAYNE A. RUPE, M.D. Instructor in Clinical Pediatrics
KATHERINE BAIN, M.D. Instructor in Clinical Pediatrics
ANNE MACGREGOR PERLEY, M.A. Instructor in Biological Chemistry in Pediatrics

LAWRENCE GOLDMAN, M.D. Instructor in Clinical Pediatrics
GEORGE ORMISTON, M.D. Instructor in Clinical Pediatrics
MAURICE J. LONSWAY, M.D. Assistant in Clinical Pediatrics
CLEON E. COLGATE, M.D. Assistant in Clinical Pediatrics
EDWIN H. ROHLFING, M.D. Assistant in Clinical Pediatrics
MARY McLOON, M.D. Assistant in Clinical Pediatrics
MAX DEUTCH, M.D. Assistant in Clinical Pediatrics
JOSEPH A. BAUER, M.D. Assistant in Clinical Pediatrics
FREDERICK A. JACOBS, M.D. Assistant in Clinical Pediatrics
SOL LONDE, M.D. Assistant in Clinical Pediatrics

THIRD YEAR

1. PEDIATRICS. Physical diagnosis as applied to infants and children. Bedside instruction to small groups of students in the wards of the St. Louis Children’s Hospital. Two hours a week for one trimester. 22 hours. (Professor McCulloch)
2. PEDIATRICS. A systematic course in General Pediatrics. Recitations, lectures, clinical demonstrations, and discussions of case histories. The subjects considered include the growth and development of the normal child; hygiene and preventive medicine as applied to children; nutrition and feeding, especially of infants; the more important diseases of infants and children; the contagious diseases. Two hours a week for three trimesters. 66 hours.

(Professor Marriott, 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. Ormiston, Dr. Bain, Dr. Zentay)

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. Pediatric Clinic and Ward Work. An elective course, consisting of practical work in history taking, physical and laboratory diagnosis and infant feeding. Clinical clerkships in the St. Louis Children's Hospital. 15 hours a week for one-half trimester. 71 hours.

(Professor Cooke, Professor Hartmann and Assistants)
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

LOUIS A. JULIANELLE, Ph.D. . . . . Associate Professor of Applied Bacteriology and Immunology and Chairman of the Commission

HARVEY D. LAMB, M.D. . Assistant Professor of Ophthalmic Pathology

R. WENDELL HARRISON, Ph.D.  Instructor in Applied Bacteriology and Immunology

MARION C. MORRIS, M.S.  Assistant in Applied Bacteriology and Immunology

CHARLOTTE WIEGHARD, M.S.  Assistant in Applied Biological Chemistry

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

(a) Basic Course—first and second years.

(b) Advanced Course—third and fourth years.

(1) Summer Training Camp—six weeks.

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

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

Instruction is designed: (1) to give the student an understanding of the Constitution, the Federal Government, Military Law and our National Defense Policies, past and present; (2) to teach Preventive Medicine as it is practiced in the Regular Army; and (3) to give a working knowledge of the Medical Department of the Army.

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

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

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

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1 Enrollment in Medical R. O. T. C. has been suspended, as an economy measure, since 1932. The appropriation bill, now before Congress, again carries authorization for enrollment in Medical Units.
MISCELLANEOUS COURSES

MEDICAL JURISPRUDENCE

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

(Mr. James M. Douglas)

STOMATOLOGY

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

(Dr. Virgil Loeb)

PHYSICAL THERAPEUTICS

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

MEDICAL ETHICS AND PROFESSIONAL CONDUCT

MEDICAL ETHICS AND PROFESSIONAL CONDUCT. An elective course consisting of informal discussions during the first trimester of the fourth year. 8 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.
OTO-LARYNGOLOGY. A four-weeks' course in Oto-Laryngology is offered once a year, beginning in June.

INTERNAL MEDICINE. A two-weeks' review course in Internal Medicine is offered once a year.

For full information in regard to these courses, address the Registrar, Washington University School of Medicine.
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# Schedule of Second Year. Second Trimester

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<tr>
<td>9 to 10</td>
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<td>Group C Ob. and Gyn. 1b</td>
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<td>Psychiatry 2</td>
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<td>12 to 1</td>
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<td>Medicine Clinic Medicine 10c</td>
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<td>2 to 3</td>
<td>Group C Ob. and Gyn. 1d</td>
<td>Gross Pathology Pathology 1d</td>
<td>Surgical Pathology Surgery 3</td>
<td>Surgical Pathology Surgery 3</td>
<td>Public Health B. and I. 3</td>
<td>Military Science and Tactics 2</td>
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<td>3 to 4</td>
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<tr>
<td>4 to 5</td>
<td>Clinical Pathological Confer. Pathology 2</td>
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**WASHINGTON UNIVERSITY SCHOOL OF MEDICINE**

Schedule of Third Year. Second Trimester

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<th>HOURS</th>
<th>MONDAY</th>
<th>TUESDAY</th>
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<th>SATURDAY</th>
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<td>9 to 10</td>
<td>Pediatrics Clinical Confer. Pediatrics 2</td>
<td>Medicine Recitation Medicine 9</td>
<td>Pharmacology Lecture Medicine 1a</td>
<td>Medicine Recitation Medicine 9</td>
<td>Obstetrics Recitation Ob. and Gyn. 1a</td>
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<td>11 to 12</td>
<td>Group C Surgery 2a</td>
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<td>Group C Surgery 2a</td>
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WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

Schedule of Third Year. Third Trimester

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<td>10 to 11</td>
<td>Group A Surgery 2a</td>
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<td>Ob. and Gyn. 1b</td>
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<td>12 to 1</td>
<td>Fractures Surgery 2c</td>
<td>Surgery Clinic Surgery 2c</td>
<td>Dietetics Medicine 8</td>
<td>Surgery Conference Surgery 2f</td>
<td>Psychiatry 2</td>
<td>Medicine Clinic Medicine 10c</td>
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<td>2 to 3</td>
<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>Surgical Pathology Surgery 3</td>
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<td>3 to 4</td>
<td>Ophthalmology Lecture Ophthal. a</td>
<td>Stomatolgy</td>
<td>2 Sections</td>
<td>Public Health B. and L. 3</td>
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<td>4 to 5</td>
<td>Clinical Pathological Conference Pathology 2</td>
<td>Medical Jurisprudence</td>
<td>½ trimester each</td>
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WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

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

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<th>HOURS</th>
<th>MONDAY</th>
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<th>THURSDAY</th>
<th>FRIDAY</th>
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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</td>
<td>Med. Sci. &amp; Tac. 2 &amp; III Trimest.</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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<td>5 to 6</td>
<td>Military Science and Tactics 2 II Trimester</td>
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1 Electives.
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE 1934-35

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

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<th>HOURS</th>
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<th>SATURDAY</th>
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<tbody>
<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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<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 Mil. Sci. &amp; Tac. 2 I &amp; III Trimest.</td>
<td>Medicine Clinic</td>
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<tr>
<td>Neurology 3b</td>
<td>Surgery 4b</td>
<td>Pediatrics 4</td>
<td>Medicine 10b</td>
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<tr>
<td>4 to 5</td>
<td>Clinical Pathological Conference Pathology 2 I &amp; II Trimest.</td>
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<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>5 to 6</td>
<td>Military Science and Tactics 2 II Trimester</td>
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¹ Electives.
*WASHINGTON UNIVERSITY SCHOOL OF MEDICINE*  1934-35

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

<table>
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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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</thead>
</table>
| 9 to 10 | Section 1. Ob. and Gyn. 2c. Ward Work, St. Louis Maternity Hospital: 9-10.  
Section 2. (Ob. and Gyn. 2d. Ward Work, Barnes Hospital: 10-12.  
Sections change at the middle of the trimester. |         |           |          |        |                                            |          |
| 10 to 12| 1                                          | 1       | 1         | 1        | 1                                           | 1        |
| 12 to 1 | Neurology Clinic  
Neurology 3b | Surgery Clinic | Pediatric Clinic | Medicine Clinic | Ob. and Gyn. 2b Lecture II Trimester Mil. Sci. & Tac. 2 I & III Trimest. | Medicine Clinic | 10c  
| 2 to 4  | Section 1. Obstetrics 2c. Ward Work, St. Louis Maternity Hospital.  
Section 2. (Ophthalmoscopy, Wednesday or Thursday.  
Elective Work, other days. |         |           |          |        |                                            |          |
| 4 to 5  | Clinical Pathological Conference Pathology 2 I & II Trimest. |         |           |          |        |                                            |          |
| 5 to 6  | Military Science and Tactics 2 II Trimester |         |           |          |        |                                            |          |

1 Electives.
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. (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. (2 to 4 p. m.)

Gynecology: A minimum of four periods of 2 hours each per week for one-third trimester in groups of not more than one-sixth of the class. 27 hours. (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. (2 to 4 p. m.)

Pediatrics: A minimum of 13 hours each week for one-half trimester in groups of not more than one-sixth of the class. 71 hours. (2 to 5 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-half trimester in groups of not more than one-sixth of the class. May be taken in the mornings by the Pediatrics-Gynecology group. 33 hours. (10 a. m. to 12 m.)

Additional hours by arrangement.
Orthopedic Surgery: A minimum of three periods each per week for one-half trimester in groups of not more than six. May be taken in the mornings by the Pediatrics-Gynecology group. 33 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.)

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

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.

Medical Ethics: Eight one-hour lectures during the first trimester. 8 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.

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1 Additional hours by arrangement.
### STUDENTS

**PHYSICIANS ATTENDING GRADUATE COURSES BETWEEN JANUARY 1 AND DECEMBER 31, 1933**

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<thead>
<tr>
<th>Name</th>
<th>Specialty</th>
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<tr>
<td>Allgood, John M., M.D.</td>
<td>Pediatrics</td>
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<tr>
<td>Beare, John W., M.D.</td>
<td>Obstetrics and Gynecology</td>
<td>Chester, Ill.</td>
</tr>
<tr>
<td>Bigler, Victor L., M.D.</td>
<td>Obstetrics and Gynecology</td>
<td>Albemarle, N. C.</td>
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<tr>
<td>Bunkley, Thelbert F., M.D.</td>
<td>Pediatrics</td>
<td>Temple, Tex.</td>
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<tr>
<td>Cannon, Augustus B., M.D.</td>
<td>Obstetrics and Gynecology</td>
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<td>Troske, Martin G., M.D.</td>
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<td>Gaskin, Lewis R., M.D.</td>
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<td>Albemarle, N. C.</td>
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<td>Gould, Ark.</td>
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<tr>
<td>Hogue, Frank S., M.D.</td>
<td>Pediatrics</td>
<td>Kansas City, Mo.</td>
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<tr>
<td>Key, Olan, M.D.</td>
<td>Obstetrics and Gynecology</td>
<td>Lubbock, Tex.</td>
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<td>Kohler, Eugene J., M.D.</td>
<td>Obstetrics and Gynecology</td>
<td>St. Louis, Mo.</td>
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<td>Lowenberg, Miriam E., M.S.</td>
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<td>Ames, Iowa</td>
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<tr>
<td>Merritt, Elizabeth B., M.D.</td>
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<td>Fair Park, N. C.</td>
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<td>Meunier, Raymond R., M.D.</td>
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<td>Miller, Jeannette C., M.D.</td>
<td>Obstetrics and Gynecology</td>
<td>Massillon, Ohio</td>
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<td>Mitchell, Charles S., M.D.</td>
<td>Pediatrics</td>
<td>Dinuba, Cal.</td>
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<td>Pickett, Mrs. B. E.</td>
<td>Pediatrics</td>
<td>Carizzo Springs, Tex.</td>
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<tr>
<td>Piper, Mark M., M.D.</td>
<td>Pediatrics</td>
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<td>Smith, Henry D., M.D.</td>
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<td>Von Canon, Oliver L., M.D.</td>
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<td>Walgren, Roy L., M.D.</td>
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<td>Wiebusch, E. G., Louis, M.D.</td>
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<tr>
<td>Wright, Preston E., M.D.</td>
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**FOURTH YEAR CLASS**

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<tr>
<th>Name</th>
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<tr>
<td>Aff, Helen Margaret</td>
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<tr>
<td>Alvis, Edmund Bennett</td>
<td>University City, Mo.</td>
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<td>Anderson, Richard Malvin</td>
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<td>Anderson, Vern Henry</td>
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<tr>
<td>A.B., Univ. of Utah, '32</td>
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<tr>
<td>Bailey, Harmon Jackson</td>
<td>Kirkville, Mo.</td>
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<td>B.S., Northeast Mo. State Teachers Coll., '29</td>
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<td>B.S., Ohio State Univ., '30</td>
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<td>Baker, James Matthews</td>
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<td>Barlow, Ralph Newton</td>
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<td>Bobe, Robert William</td>
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<td>M.A., Univ. of Kans., '29</td>
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<td>Bowers, John Alden</td>
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<td>Bricker, Eugene Myron</td>
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<td>Bush, Leonard Franklin</td>
<td>Augusta, Wis.</td>
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<td>Buss, Paul Gerhard</td>
<td>Golden, Ill.</td>
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Caldemeyer, Everett Samuel ........................................... Springfield, Mo. 
Campbell, Thomas Curtis ............................................. St. Louis, Mo. 
   A.B., Washington Univ., '32. 
Culbertson, Roy Frederick ........................................... East St. Louis, Ill. 
   A.B., Univ. of Ill., '31. 
Davis, Luther, Jr. .................................................. Tuscaloosa, Ala. 
   A.B., Univ. of Ala., '30. 
Doyle, William Henry .............................................. St. Louis, Mo. 
Drake, Frank Rodney ............................................. University City, Mo. 
Drury, Robert Lamar ............................................... St. Louis, Mo. 
   B.S., Drury Coll., '32. 
Evans, Ezra Levi, Jr. ............................................. Springfield, Mo. 
Frisch, Jane Esther ............................................. St. Louis, Mo. 
Frissell, Ben Pat ................................................ Cape Girardeau, Mo. 
   A.B., Southeast Mo. State Teachers Coll., '30. 
Gist, William Wilmot ............................................. Kansas City, Mo. 
   A.B., Univ. of Mo., '32. 
   B.S., Univ. of Mo., '32. 
Greenbaum, Roy .................................................... Kansas City, Mo. 
Greenberg, Ralph ................................................... New York, N. Y. 
   A.B., Univ. of Kan., '30. 
Gumper, Arnold John ............................................... Belfield, N. D. 
   A.B., Univ. of N. D., '30. 
   B.S., Univ. of N. D., '32. 
Hammonds, Everett England ......................................... St. Louis, Mo. 
Hampton, Stanley Forrest ........................................ University City, Mo. 
Hendren, Glenn W .................................................... Polo, Mo. 
   A.B., Univ. of Mo., '32. 
Herman, Allen Isadore ............................................. St. Joseph, Mo. 
   A.B., Univ. of Mo., '31. 
   B.S., Univ. of Mo., '32. 
Hunter, Martin Peters ............................................ Bevier, Mo. 
Jeffreys, Everett Osborne ...................................... Phillipi, W. Va. 
Jekel, Louis Glanz .............................................. Kirkwood, Mo. 
Jones, Dorothy Jeannette .......................................... St. Louis, Mo. 
   A.B., Oberlin Coll., '30. 
Jones, Ralph Russell ........................................... Salem, Ore. 
   A.B., Oberlin Coll., '30. 
Khoury, Norris Nicholas .......................................... Fond du Lac, Wis. 
   B.S., Univ. of Wisc., '32. 
Krause, Seymour Julian ........................................ Marshall, Tex. 
Kuncel, Paul ....................................................... St. Louis, Mo. 
Lemone, David von den Berg .................................... St. Louis, Mo. 
   A.B., Univ. of Mo., '31. 
   B.S., Univ. of Mo., '32. 
Lehner, Arthur Jacques ........................................ Brooklyn, N. Y. 
   A.B., Amherst Coll., '30. 
Leydig, Stanley Milton ........................................ Missoula, Mont. 
   A.B., State Univ. of Mont., '30. 
Little, Howard Q .................................................. Conover, N. C. 
   B.S., Univ. of N. C., '32. 
Lloyd, Leo Walter ................................................ Pueblo, Colo. 
Marcy, Morris David ........................................... St. Louis, Mo. 
   Marshall, Bromell Moeser ........................................ Topeka, Kan. 
   B.S., Washburn Coll., '30. 
McKenzie, Walter Holt .......................................... Enid, Okla. 
   A.B., Univ. of Okla., '30. 
McKinstry, Karl Virgil ......................................... Blackwell, Mo. 
Miller, Alva Edward .............................................. Deepwater, Mo. 
   B.S., Univ. of Mo., '32. 
Molony, Clement Joseph ........................................ Los Angeles, Cal. 
   A.B., Univ. of Cal. at Los Angeles, '30.
Moss, Paul Kansas City, Mo. A.B., Dartmouth Coll., '31.
Nordenbrock, Gregory John St. Louis, Mo. A.B., Harvard Univ., '30.
Orgel, Maurice Norman New York, N. Y. B.S., Coll. of the City of N. Y., '29.
Poos, Robert Sanders University City, Mo. A.B., Washington Univ., '30.
Rogers, Jean Frederick Mason City, Ill. A.B., Univ. of Ill., '31.
Rosenbaum, Harry David St. Louis, Mo. A.B., Univ. of Mo., '30.
Rosenwald, Leonard George St. Louis, Mo. B.S., Univ. of Mo., '32.
Rouner, James Lawrence Palmyra, Mo. A.M., Univ. of Mo., '32.
Sanderson, Everett Shovelton St. Louis, Mo. B.S., Mass. Agricultural Coll., '16.
Saxton, John Albion, Jr. St. Louis, Mo. M.S., Yale Univ., '21.
Schmeckebier, Mary Mable Kirkwood, Mo. Ph.D., Yale Univ., '22.
Schrick, Edna Waddell St. Louis, Mo. A.B., Yale Univ., '33.
Schureman, Oliver Perry, Jr. So. Pasadena, Cal. A.B., Univ. of Neb., '30.
Shirley, Katherine Ophelia Tuscaloosa, Ala. A.B., Woman's Coll. of Ala., '29.
Sivowitz, Abraham Joshua St. Louis, Mo. A.B., Ohio State Univ., '30.
Smith, John Russell Lake Mills, Wis. B.S., Univ. of Mo., '32.
Sivowitz, Abraham Joseph St. Louis, Mo. B.S., N. Y. Univ., '39.
Smith, John Russell Lake Mills, Wis. A.B., Univ. of Wis., '31.
Sivowitz, Abraham Joseph St. Louis, Mo. M.S., Univ. of Wis., '32.
Stone, Gordon Earl Andover, S. D. B.S., Univ. of S. D., '32.
Tolker, James Gavin Montrose, Cal. A.B., Nebraska Wesleyan Univ., '29.
Thomas, Leon Benda Iowa City, Iowa M.S., St. Louis Univ., '31.
Tormey, Thomas William, Jr. Madison, Wis. B.S., Univ. of Wis., '32.
Westphal, Corinne Yorktown, Tex. A.B., Southwestern Univ., '27.
Wilson, Keith Singleton St. Louis, Mo. A.B., Univ. of Ariz., '30.
Wilson, Keith Singleton St. Louis, Mo. A.B., Williams Coll., '30.

Total, 91.
THIRD YEAR CLASS

Abney, Mary Caroline .................................................. Blackwater, Mo.
A.B., Univ. of Mo., '32.

Allison, Lester Fisher .............................................. Elk Mountain, Wyo.
A.B., Drake Univ., '32.

Ames, Richard Howell .............................................. Stanford University, Cal.

Amlin, Kenneth Miller .................................................. Los Angeles, Cal.
A.B., Univ. of Cal. at Los Angeles, '31.

Barnett, Floyd Aaron .................................................. Webster Groves, Mo.
A.B., Univ. of Mo., '32.

B.S., Univ. of Mo., '33.

Belskby, Frank Kelsey .................................................. Peoria, Ill.
B.S., Bradley Polytechnic Inst., '31.

Berman, William ........................................................... St. Louis, Mo.

Bishop, Don L ............................................................. Belton, Mo.
A.B., Univ. of Mo., '31.

Bortonck, Arthur .......................................................... St. Louis, Mo.

Bradford, Bert, Jr. ....................................................... Pennsboro, W. Va.


Brown, Walter Earl, Jr. ............................................. Tulsa, Okla.
B.S., Univ. of Va., '31.

Budke, Robert Julius ..................................................... St. Louis, Mo.

Bullington, Bert Montell .............................................. East Peoria, Ill.

Caruso, Daniel George ................................................. Granite City, Ill.

Caruso, Paul Felix ..................................................... Rutherford, N. J.

Conrad, Raymond Clifford ........................................... Perryville, Mo.
A.B., Univ. of Mo., '32.
B.S., Univ. of Mo., '33.

Crigler, Ralph Ewing ...................................................... Alma, Ark.

Davis, Vernam Terrell, Jr. ......................................... Morrisville, Pa.
B.S., Univ. of Ark., '30.

Downing, Sam William, Jr. ............................................ New Franklin, Mo.
B.S., Univ. of Mo., '33.

Eckernbruch, Arthur Paul ............................................. Long Beach, Cal.
A.B., Butler Univ., '31.

Edmonds, Henry Wolfner ............................................. St. Louis, Mo.

B.S., Washington Univ., '31.

Eckenbrenner, Allen Bernard .......................................... St. Louis, Mo.

Farrington, Charles Temple ........................................... Los Angeles, Cal.
A.B., Univ. of Cal. at Los Angeles, '31.
B.S., Univ. of Mo., '33.

Fisher, Wilbur Graham .................................................. Scio, Ohio
A.B., Ohio State Univ., '32.

Flancer, Israel Jerome ................................................ Brooklyn, N. Y.

Fleischman, Alfred ......................................................... Brooklyn, N. Y.
A.B., State Univ. of Iowa, '31.

Goldenberg, Max .......................................................... East St. Louis, Ill.

Graul, Elmer George .................................................... St. Louis, Mo.

Growden, John Arthur ................................................... Joplin, Mo.
B.S., Univ. of Mo., '33.

Haffner, Holnz ........................................................... El Paso, Tex.
B.S., Univ. of Ariz., '31.

Hamann, Carl Henry ....................................................... Canton, Mo.
A.B., Culver-Stockton Coll., '31.

Harris, Alfred William ................................................ East St. Louis, Ill.

Hartman, Paul Utley ..................................................... Los Angeles, Cal.
A.B., Univ. of So. Cal., '31.

Herrod, James Henry ...................................................... Webb City, Mo.

Hoagland, Charles Lee ................................................. Carthage, Mo.

Hutten, Herman ........................................................... Ariton, Ala.

Jensen, Nathan Kenneth ................................................ Rupert, Idaho
A.B., Univ. of Ala., '32.

Johnson, Norman Martin .............................................. University City, Mo.

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

Jones, John Ben .......................................................... La Plata, Mo.
B.S., Northeast Mo. State Teachers Coll., '31.
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Institution</th>
<th>Location, State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katzeff, Jacob</td>
<td>B.S.</td>
<td>Univ. of Louisville, '31</td>
<td>Brooklyn, N.Y.</td>
</tr>
<tr>
<td>Kellogg, Pearson Cameron</td>
<td>A.B.</td>
<td>Stanford Univ., '31</td>
<td>Sacramento, Cal.</td>
</tr>
<tr>
<td>Kenamore, Bruce Delozier</td>
<td>A.B.</td>
<td>Washington Univ., '33</td>
<td>Webster Groves, Mo.</td>
</tr>
<tr>
<td>King, Robert Victor</td>
<td>A.B.</td>
<td>Univ. of Mo., '32</td>
<td>Lebanon, Mo.</td>
</tr>
<tr>
<td>Klesner, Paul</td>
<td>B.S.</td>
<td>Purdue Univ., '27</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Krause, Albert Henry</td>
<td>A.B.</td>
<td>Univ. of Mo., '33</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Lamberth, Wade Camdon</td>
<td>B.S.</td>
<td>Univ. of Mo., '33</td>
<td>Alexander City, Ala.</td>
</tr>
<tr>
<td>Lane, Henry John</td>
<td>A.B.</td>
<td>Stanford Univ., '32</td>
<td>Springfiel, Mo.</td>
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<td>Langston, Walter Roland</td>
<td>B.S.</td>
<td>Drury Coll., '33</td>
<td>St. Louis, Mo.</td>
</tr>
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<td>Loomis, Ralph H.</td>
<td>B.S.</td>
<td>Mount Holyoke Coll., '28</td>
<td>East Prairie, Mo.</td>
</tr>
<tr>
<td>Massie, Edward</td>
<td>A.B.</td>
<td>Washington Univ., '31</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Massie, Edward</td>
<td>B.S.</td>
<td>Northeast Mo. State Teachers Coll., '29</td>
<td>St. Louis, Mo.</td>
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<td>McGuire, Richard Harry</td>
<td>B.S.</td>
<td>Central Coll., '30</td>
<td>New Boston, Mo.</td>
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<td>Messer, Sidney</td>
<td>B.S.</td>
<td>N. Y. Univ., '31</td>
<td>Brooklyn, N.Y.</td>
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<td>Mitchell, Robert Hiestand</td>
<td>A.B.</td>
<td>Univ. of Mo., '31</td>
<td>Columbia, Mo.</td>
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<td>Needles, Joseph Herman</td>
<td>A.B.</td>
<td>Univ. of Mo., '32</td>
<td>New Athens, Ill.</td>
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<tr>
<td>O'Hearon, Michael Kinney</td>
<td>A.B.</td>
<td>Univ. of Cal., '30</td>
<td>Waco, Tex.</td>
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<td>Phillips, Allan B.</td>
<td>A.B.</td>
<td>Univ. of Cal., '31</td>
<td>Clear Lake, Iowa</td>
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<td>Poc, John Seldon</td>
<td>A.B.</td>
<td>Univ. of Mo., '31</td>
<td>St. Louis, Mo.</td>
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<td>Potter, Clark Gardner</td>
<td>B.S.</td>
<td>State Agri. Coll., '31</td>
<td>Alton, Ill.</td>
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<td>Potter, Reese Harris</td>
<td>A.B.</td>
<td>Univ. of Kan., '32</td>
<td>Springfield, Mo.</td>
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<td>Powers, Edward Sharp</td>
<td>B.S.</td>
<td>Yale Univ., '30</td>
<td>Joplin, Mo.</td>
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<td>Pray, Laurence Gesner</td>
<td>A.B.</td>
<td>Univ. of Cal., '32</td>
<td>Valley City, N.D.</td>
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<tr>
<td>Robinson, Frank Harbert</td>
<td>A.B.</td>
<td>Univ. of Utah, '32</td>
<td>Salt Lake City, Utah</td>
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<td>Rohman, David</td>
<td>A.B.</td>
<td>Univ. of Mo., '32</td>
<td>St. Louis, Mo.</td>
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<td>Russo, Dominic Tony</td>
<td>A.B.</td>
<td>Univ. of Ala., '32</td>
<td>Brooklyn, N.Y.</td>
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<td>Schmitt, Herbert Simon</td>
<td>B.S.</td>
<td>St. Louis Univ., '29</td>
<td>Evansville, Ind.</td>
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<td>Schwartzman, Bernard</td>
<td>A.B.</td>
<td>Washington Univ., '31</td>
<td>Maplewood, Mo.</td>
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<td>Seddon, John Wickham</td>
<td>A.B.</td>
<td>Washington Univ., '31</td>
<td>St. Louis, Mo.</td>
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<td>Schrader, Emmett Jacob</td>
<td>A.B.</td>
<td>Washington Univ., '31</td>
<td>St. Louis, Mo.</td>
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<td>Santuris, Ben Harder</td>
<td>A.B.</td>
<td>Washington Univ., '31</td>
<td>St. Louis, Mo.</td>
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<tr>
<td>Name</td>
<td>University/College</td>
<td>Degree(s)</td>
<td>City, State/Province</td>
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<td>Sheldon, Paul C.</td>
<td>Ind. State Teachers Coll, '31</td>
<td>A.B.</td>
<td>Terre Haute, Ind.</td>
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<td>Socha, Emory Lowell</td>
<td>Wash. Univ., '28</td>
<td>A.B.</td>
<td>St. Louis, Idaho</td>
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<td>Steiner, Alexander Jerry</td>
<td>Wash. Univ., '28</td>
<td>M.S.</td>
<td>Joplin, Mo.</td>
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<td>Sutter, Richard Anthony</td>
<td>Wash. Univ., '31</td>
<td>A.B.</td>
<td>University City, Mo.</td>
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<td>Swinney, Robert Harold</td>
<td>Wash. Univ., '31</td>
<td>A.B.</td>
<td>Richfield, Idaho</td>
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<td>Lake Wales, Fla.</td>
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<td>Vieaux, Julius Walker</td>
<td>Northwestern Univ, '31</td>
<td>A.B.</td>
<td>Lexington, Mo.</td>
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<td>Wallace, Edwin Sharp</td>
<td>Wash. Univ., '31</td>
<td>A.B.</td>
<td>St. Louis, Mo.</td>
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<td>Weiner, David Otis</td>
<td>Ind. Univ., '31</td>
<td>A.B.</td>
<td>Granite City, Ill.</td>
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<td>Williams, John Wyley</td>
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<td>A.B.</td>
<td>Oak Grove, Mo.</td>
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<td>Wilson, William Kindred</td>
<td>Ala., '32</td>
<td>A.B.</td>
<td>Haleyville, Ala.</td>
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<td>Wrenn, John Alexander</td>
<td>Wash. Univ., '30</td>
<td>A.B.</td>
<td>Stanberry, Mo.</td>
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<td>Wright, Robert Dean</td>
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<td>A.B.</td>
<td>Green Bay, Wis.</td>
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<td>Akers, Elwyn Nickell</td>
<td>Wash. Univ., '32</td>
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<td>St. Louis, Mo.</td>
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<td>Arenberg, Lawrence Milton</td>
<td>Wash. Univ., '32</td>
<td>A.B.</td>
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<td>Atherton, Herbert Raymond</td>
<td>Wash. Univ., '32</td>
<td>A.B.</td>
<td>University City, Mo.</td>
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<td>Berkowitz, Morris</td>
<td>Wash. Univ., '32</td>
<td>A.B.</td>
<td>Kansas City, Mo.</td>
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<td>Breslow, Lawrence</td>
<td>Wash. Univ., '32</td>
<td>A.B.</td>
<td>Richmond Hill, N. Y.</td>
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<td>Bryan, James Howard</td>
<td>Wash. Univ., '32</td>
<td>A.B.</td>
<td>St. Louis, Mo.</td>
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<td>Clark, Joseph Lawrence</td>
<td>Wash. Univ., '32</td>
<td>A.B.</td>
<td>Ennis, Tex.</td>
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<td>Connell, John Richard</td>
<td>Wash. Univ., '32</td>
<td>A.B.</td>
<td>Des Moines, Iowa</td>
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<td>Darrow, Arthur Charles, Jr.</td>
<td>Wash. Univ., '32</td>
<td>A.B.</td>
<td>Granville, Ohio</td>
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<td>Davis, Donald Alan</td>
<td>Denison Univ., '32</td>
<td>A.B.</td>
<td>Crafton, Pa.</td>
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<td>Drescher, Emmett Burk</td>
<td>Wash. Univ., '32</td>
<td>A.B.</td>
<td>St. Louis, Mo.</td>
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<td>Dworkin, Saul</td>
<td>Washburn Coll, '31</td>
<td>A.B.</td>
<td>Cleveland, Ohio</td>
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<td>Ellis, Orwyn Baywood</td>
<td>Stanford Univ., '32</td>
<td>A.B.</td>
<td></td>
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</tbody>
</table>
Ellis, Stephen Stuart ........................................... Coffeyville, Kan.  
A.B., Washington Univ., '32.

Engel, Edgar Leo ............................................... Evansville, Ind.  
A.B., Wabash Coll., '32.

Eppe, Curtis Howard ........................................... Springfield, Mo.
B.S., Drury Coll., '31.

Farr, John Calvin ............................................. Caruthersville, Mo.

Fleming, Paul Dunlap ........................................... Waterloo, Ill.

Hauptman, Harry ............................................... Jersey City, N. J.
A.B., Univ. of Mich., '32.

Hethington, Jessie Thrapp ..................................... St. Louis, Mo.
A.B., Univ. of Mich., '31.

Hollombe, Samuel Morris ..................................... Los Angeles, Cal.
A.B., Univ. of Cal., '31.

Horner, John Linscott .......................................... St. Louis, Mo.

Jahnson, William Henry ........................................ Canton, Ohio
B.S., Univ. of Pittsburgh, '32.

Jaffe, Hyman ..................................................... Cleveland, Ohio
A.B., Adelbert Coll., '30.

Kahn, Nathan Robert ........................................... Brooklyn, N. Y.
A.B., Washington Univ., '32.

Kelley, Albert ................................................... St. Louis, Mo.
A.B., Washington Univ., '32.

A.B., Southwestern U., '32.

Kelly, Marshall Wilson ........................................ Placerville, Cal.

Klingner, George Malcolm ..................................... Springfield, Mo.
B.S., Drury Coll., '32.

Lockhart, Edmund Short ...................................... Witt, Ill.
A.B., Ill. Coll., '32.

Lundmark, Vernon Oscar ...................................... Seattle, Wash.

Mason, Richard Patrick ...................................... Pittsburgh, N. Y.
A.B., Washington Univ., '32.

McDowell, Frank ............................................... Springfield, Mo.
A.B., Drury Coll., '32.

McMillan, Thomas Eugene ..................................... Kansas City, Mo.
A.B., Washington Univ., '32.

McNamara, Thaddeus Maria, Jr. ............................... Bakersfield, Cal.
A.B., Stanford Univ., '32.

McVety, Thomas Wilson ......................................... Normal, Ill.
A.B., Ill. Wesleyan Univ., '32.

Miller, Edward Allison ........................................ Seattle, Wash.
B.S., Ill. Wesleyan Univ., '32.

Miller, Ivan Jenks ............................................. Belton, Mo.
B.A., Univ. of Mo., '32.

Minzel, Wesley Charles ....................................... Seattle, Wash.
B.S., Univ. of Wash., '31.

Morris, James Donald .......................................... Billings, Mont.
A.B., Carleton Coll., '30.

Mueller, Robert John .......................................... Maplewood, Mo.

Nussbaum, Robert Allen ........................................ St. Louis, Mo.

Pettus, Florence ................................................ St. Louis, Mo.
A.B., Bryn Mawr Coll., '32.

Pfaltz, Charles Parker ........................................ Casper, Wyo.
A.B., Stanford Univ., '32.

Pletcher, Kenneth E ............................................ Pacific, Mo.
A.B., Central Coll., '32.

Plymale, John Langley .......................................... Gallipolis, Ohio
A.B., Ohio Wesleyan Univ., '32.

Rector, Eleanor Johnson ....................................... Seattle, Wash.
B.S., Univ. of Wash., '31.

Rector, Lewis Edwin ............................................ Seattle, Wash.
M.S., Ohio State Agricultural Coll., '25.

Rutherford, Robert Horace .................................... Girard, Ill.


Schneider, Sam .................................................. St. Louis, Mo.
A.B., Washington Univ., '32.

Schulze, Edward Spencer ...................................... Piedmont, Cal.
A.B., Univ. of Cal., '31.
Silverglade, Alexander ................................................ Trenton, N. J.
B.S., Univ. of Wash., '29.

Smith, Carl Wellington ............................................... East St. Louis, Ill.
A.B., Washington Univ., '32.

Standard, James Fields .............................................. Seattle, Wash.
B.S., Univ. of Wash., '32.

Strobach, Rolla Lenox .................................................. St. Louis, Mo.
A.B., Washington Univ., '32.

Swedenburg, Genevieve Marie ........................................ Ashland, Ore.
A.B., Univ. of Wash., '30.

Tidrick, Robert Thompson ............................................. St. Louis, Mo.
A.B., Tarkio Coll., '32.

Viehl, Richard Peter .................................................. University City, Mo.
A.B., Washington Univ., '32.

Wall, Harry Charles ................................................... Chicago, Ill.
Wepprich, Michael Scholl ............................................. St. Charles, Mo.

Wise, Robert Allen ..................................................... Morganfield, Ky.

Zonnis, Marion Estelle .............................................. St. Louis, Mo.
A.B., Washington Univ., '32.

Total, 72

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FIRST YEAR CLASS

Adler, Bernard Charles ................................................. St. Louis, Mo.
Adler, Morton William .................................................. St. Louis, Mo.
A. B., Washington Univ., '33.

Barnes, Marian ........................................................ Lawrence, Kan.
B.S., Univ. of Chicago, '27.

Bassman, Roland Sidney ............................................... St. Louis, Mo.
Berger, Edward .......................................................... St. Louis, Mo.
Beitman, Donald Stewart ............................................. East St. Louis, Ill.
A.B., Washington Univ., '32.

Bourland, John Bookhout .............................................. Dallas, Tex.

Bremer, Paul Adolph Anthony ........................................ Princeton, Ill.
A.B., Washington Univ., '33.

Brodsky, Samuel ........................................................ Brooklyn, N. Y.
A.B., Washington Univ., '33.

Brookes, Theodore Prewitt, Jr. ..................................... St. Louis, Mo.

Burch, Earl Samuel .................................................... Fort Dodge, Iowa
A.B., Grinnell Coll., '25.

Burks, James Willis, Jr. .............................................. Nashville, Tenn.
A.B., Vanderbilt Univ., '33.

Cary, John Burford .................................................... Donnellson, Ill.
A.B., Ill. Coll., '33.

Case, Robert Bowen .................................................... Oakland, Cal.
A.B., Stanford Univ., '32.

Compton, Martin Andrew ............................................... Peoria, Ill.

Cruvant, Bernard Alan ................................................. East St. Louis, Ill.
A.B., Washington Univ., '33.

Erlanger, Herman ........................................................ St. Louis, Mo.
A.B., Univ. of Wis., '33.

Florio, Joseph Anthony ................................................ Syracuse, N. Y.
A.B., Oberlin Coll., '33.

Gann, Eldred La Monte ................................................ Burden, Kan.

Gellerich, James Anthony ............................................. New York, N. Y.
A.B., Richmond Coll., '33.

Gershon, Edward Elliott ............................................... Kansas City, Mo.
A.B., Washington Univ., '33.

Goldman, Gilbert Sames ................................................ Pittsburgh, Pa.
B.S., Univ. of Pittsburgh, '33.

Gray, William Halling ................................................ Fort Bragg, Cal.
A.B., Stanford Univ., '33.

Henderson, Arthur Wright ............................................ Jacksonville, Ill.
A.B., Illinois Coll., '32.

Huffman, Carroll Wilson ............................................. Hickory, N. C.
B.S., Lenoir-Rhyne Coll., '33.

Humphrey, Kenneth Edward ........................................... Granite City, Ill.
A.B., Westminster Coll., '33.

Huntley, Henry Clay .................................................... Steele, Mo.
A.B., Washington Univ., '33.
The School of Medicine

Kanda, Robert Tadao, Walluku, Maui, Hawaii
A.B., Univ. of Southern Cal., ’33.

Kaplan, Arthur Arthur, Brooklyn, N.Y.
A.B., Cornell Univ., ’33.

Kingsland, Robert Chenual, St. Louis, Mo.
A.B., Washington Univ., ’33.

Kircher, Theodore Engelmann, Jr., Belleville, Ill.
A.B., Yale Coll., ’33.

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

Kusunoki, Clarence Junro, Honolulu, Hawaii
A.B., Univ. of Hawaii, ’33.

Lee, Donald Kuo-Chih, Portland, Ore.
B.S., Ore. State Agric. Coll., ’32.

Levinson, Julian Paul, Brownsville, Pa.
B.S., Univ. of Pittsburgh, ’32.

Lischer, Carl Edward, University City, Mo.
A.B., Univ. of Cal., ’33.

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, Louis Ezekial, St. Louis, Mo.
A.B., Washington Univ., ’33.

Lowenhaupt, Elizabeth, St. Louis, Mo.
A.B., Radcliffe Coll., ’33.

Lydon, Harold Ray, Jr., Kansas City, Mo.
A.B., Univ. of Mo., ’33.

Lyman, Edward Harry, St. Louis, Mo.
A.B., Westminster Coll., ’33.

Lytle, Howard William, Lodi, Cal.
A.B., Stanford Univ., ’33.

Martin, Charles Ellerbrook, St. Louis, Mo.
A.B., Washington Univ., ’33.

McCaig, Edwin Levan, Laddonia, Mo.
A.B., Univ. of Mo., ’32.

McCasland, John Daniel, Chula Vista, Cal.
A.B., Pomona Coll., ’33.

McGrath, Marion Stanley, Star, Idaho
B.S., Univ. of Idaho, ’33.

McKee, Wayne Pickens, Modesto, Cal.
A.B., Univ. of Cal., ’33.

Meeker, Cornelius Shepherd, Jacksonville, Ill.
A.B., Ill. Coll., ’33.

Meisenbach, Albert Edward, Jr., St. Louis, Mo.
A.B., Washington Univ., ’33.

Mendonsa, Lawrence Ernest, University City, Mo.
A.B., Washington Univ., ’33.

Michcke, John Edward, St. Louis, Mo.
A.B., Washington Univ., ’33.

Mountjoy, Philip Shannon, St. Louis, Mo.
A.B., Washington Univ., ’33.

Nickerson, Ivey Dean, Birmingham, Mich.
A.B., Albion Coll., ’33.

Owen, Walter Edwin, Jr., Clinton, Mo.

Pareira, Morton Donald, St. Louis, Mo.
A.B., Washington Univ., ’33.

Peterson, Ralph Clarence, Seattle, Wash.
B.S., Univ. of Wash., ’33.

Ponter, Joseph John, San Francisco, Cal.
Quinn, William Joseph, San Francisco, Cal.

Reid, Henry Nowell, Rome, N. Y.
B.S., Univ. of Wash., ’33.

Risser, Philip Crane, Blackwell, Okla.
A.B., Grinnell Coll., ’33.

Robertson, Edwin Norris, Jr., Concordia, Kan.
A.B., Univ. of Kan., ’33.

Rosenbaum, Lloyd Emmerich, Anderson, Ind.
A.B., Princeton Univ., ’32.

Russell, Thomas Goodson, Sylvania, Ohio
B.S., Univ. of the City of Toledo, ’33.

Sauer, William Nicholas, St. Louis, Mo.
A.B., Stanford Univ., ’32.

Schopp, Alvin Charles, St. Louis, Mo.
A.B., Washington Univ., ’33.
Scott, Ila Marie......................................................Richmond Heights, Mo.
A.B., Univ. of Colo., '27.
M.S., Washington Univ., '32.
Sieber, Edward Henry.............................................Jacksonville, Ill.
Skaller, Maja Leroy..............................................Memphis, Tenn.
A.B., Washington Univ., '33.
Smith, Harvey Sydney, Jr.........................................East St. Louis, Ill.
Stevenson, Walter Davis, Jr..................................Quincy, Ill.
B.S., Univ. of Va., '33.
Tompkins, Harold Phillip........................................Anahiem, Cal.
E.S., Univ. of Va., '33.
Tversky, Edgar Louis...............................................St. Louis, Mo.
Urban, Dewey Emanuel............................................Perryville, Mo.
Urban, Kenneth Lee..............................................Perryville, Mo.
A.B., Westminster Coll., '33.
Vaughan, John Russell, Jr.......................................University City, Mo.
A.B., Washington Univ., '33.
Wall, David Royal..................................................Wichita, Kan.
A.B., Univ. of Kan., '33.
Waller, Theodore Paul..........................................Joplin, Mo.
A.B., Univ. of Mo., '33.
Weber, Thomas Loflin..............................................Olney, Ill.
Westrup, Ellsworth Arthur.......................................Webster Groves, Mo.
A.B., Washington Univ., '33.
Williams, Ray David...............................................Vago, W. Va.
A.B., Hampden-Sydney Coll., '30.
M.S., Emory Univ., '31.
Wittler, Marie Henrietta..........................................St. Louis, Mo.
Total, 85

SPECIAL STUDENT

MacDougall, Elizabeth..............................................St. Louis, Mo.
A.B., Univ. of Wis., '26.
A.M., Lehigh Univ., '29.
Total, 1

SUMMARY OF STUDENTS IN THE SCHOOL OF MEDICINE

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Fourth Year Class..................................................31
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First Year Class..................................................85
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Total, 375
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