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84 *School of Medicine*

1960-61

VANDERBILT UNIVERSITY

School of Medicine

1960-61



*Containing general information, appointments,
and courses of study for the 1960-61 session,
corrected to August 1, 1960* ✓ NASHVILLE

YTI2 *School of Medicine Calendar, 1960-61* AV

Sept. 12-13, Mon.-Tues.	Registration
September 14, Wednesday	Instruction begins
November 24, Thursday	Thanksgiving: a holiday
December 3, Saturday	Fall quarters end for second, third and fourth year students
December 5, Monday	Winter quarters begin for second, third and fourth year students
December 20, Tuesday	Christmas vacation begins at 5 p.m.
January 4, Wednesday	Instruction resumes
February 1, Wednesday	Fall semester ends for first year students
February 2, Thursday	Spring semester begins for first year students
March 4, Saturday	Winter quarters end for third and fourth year students
March 6, Monday	Spring quarters begin for third and fourth year students
March 9, Thursday	Winter quarter ends for second year students
March 10, Friday	Spring quarter begins for second year students
April 25-26, Tues.-Wed.	National Board Examinations for all fourth year students
May 26, Friday	Spring term instruction ends for third and fourth year students
May 31, Wednesday	Spring terms end for first and second year students
June 4, Sunday	Commencement Exercises
June 20-21, Tues.-Wed.	National Board Examinations for all second-year students

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D. SCOTT BAYER
RUSSELL T. BIRMINGHAM
JOHN C. BURCH
RICHARD O. CANNON
ROBERT L. CHALFANT
EVERETT M. CLAYTON
SAM C. COWAN, JR.
GEORGE B. CRAFTON
RAPHAEL S. DUKE

JAMES W. ELLIS
HAMILTON GAYDEN
PAUL A. GREEN, JR.
B. K. HIBBETT, III
CHARLIE JOE HOB DY
CHARLES HUDDLESTON
ROLAND LAMB
HORACE T. LAVELY, JR.
G. SYDNEY McCLELLAN
JAMES B. MILLIS
HOMER M. PACE

ROY W. PARKER
C. GORDON PEERMAN
HOUSTON SARRATT
RICHARD C. STUNTZ*
WILLIAM D. SUMPTER
ARTHUR J. SUTHERLAND,
Jr.
WILLARD O. TIRRILL
THOMAS F. WARDER
EDWIN LEA WILLIAMS

Resident Staff

RESIDENT OBSTETRICIANS AND GYNECOLOGISTS

ROGER B. BURRUS

ROBERT H. TOSH

*On leave 1960/61.

ASSISTANT RESIDENT OBSTETRICIANS AND GYNECOLOGISTS

THOMAS H. BAKER, JR.
DONALD A. GOSS

NEWTON B. GRIFFIN
JAMES W. JOHNSON

INTERNS

All interns listed under Surgery have a rotation on Obstetrics and Gynecology.

OPHTHALMOGY

GEORGE W. BOUNDS, *Acting Ophthalmologist-in-Chief*

Emeritus Staff

ROBERT E. SULLIVAN

Visiting Staff

L. ROWE DRIVER
FOWLER HOLLABAUGH
ALLEN LAWRENCE

PHILIP L. LYLE
RALPH RICE
FRED A. ROWE

THOMAS R. SAWYER
HENRY CARROLL SMITH
KATE SAVAGE ZERFOSS

Resident Staff

RESIDENT OPHTHALMOLOGISTS

ERNESTO M. CUBE

JOHN BOND

ASSISTANT RESIDENT OPHTHALMOLOGISTS

LOUIS POWELL

SPENCER P. THORNTON

PATHOLOGY

JOHN L. SHAPIRO, *Pathologist-in-Chief*

Assistant Pathologist

JOHN B. THOMISON

Resident Staff

RESIDENT PATHOLOGIST

ROBERT G. HORN

ASSISTANT RESIDENT PATHOLOGISTS

ELDON STEVEN DUMMIT, JR.

ASUR GRISALES

HAROLD H. SANDSTEAD

INTERNS

ALFRED W. BRANN

FRED W. RYDEN

PEDIATRICS

AMOS CHRISTIE, *Pediatrician-in-Chief*

Emeritus Staff

JOHN M. LEE

Visiting Staff

O. RANDOLPH BATSON
LUTHER A. BEAZLEY
EUGENE L. BISHOP
LINDSAY K. BISHOP
HEARN G. BRADLEY
T. FORT BRIDGES
SAM W. CARNEY, JR.
NORMAN M. CASSELL
ISABELLA COLLINS
WILLIAM M. DOAK
RAY L. DUBUISSON

PHILIP C. ELLIOTT
HARRY M. ESTES
JOHN P. FIELDS
LEONARD J. KOENIG
SOL L. LOWENSTEIN
ERNEST E. MCCOY
ROBERT E. MERRILL
DEWEY G. NEMEC
JAMES C. OVERALL
MARGARETTA E.
PATTERSON
DAN S. SANDERS, JR.

GORDON RENNICK SELL
SARAH H. SELL
MILDRED STAHLMAN
JOE M. STRAYHORN
RICHARD P. TABER
WILLIAM O. VAUGHAN
W. B. WADLINGTON
ETHEL WALKER
THOMAS S. WEAVER
ERLE E. WILKINSON
THOMAS B. ZERFOSS, JR.

Resident Staff

RESIDENT PEDIATRICIAN

ROBERT C. FRANKS

ASSISTANT RESIDENT PEDIATRICIANS

SAMUEL T. HADDOCK
GORDON HOLLINS

ERON B. INGLE
DAVID L. SILBER, JR.

INTERNS

WILLIAM H. BERNSTEIN
JOHN L. CHAMBERLAIN
FRANK LODA, JR.

MARY L. MICHAL
JERROD NORMANLY
JOSEPH STERANKA

ARVILLE V. WHEELER
ELBERT A. WHITE
WILLIAM C. YOUNG

PSYCHIATRY

WILLIAM F. ORR, *Psychiatrist-in-Chief*

Visiting Psychiatrists

ROBERT W. ADAMS
JOSEPH J. BAKER
ERIC BELL, JR.
OTTO BILLIG

HENRY B. BRACKIN, JR.
H. JAMES CRECRAFT
ROBERT M. FOOTE
ALBERT R. LAWSON
FRANK H. LUTON

DOUGLAS POWERS
LOUIS SAMPSON
CHARLES B. SMITH
FRANK W. STEVENS

Visiting Psychologists

VIRGINIA KIRK

ABNER R. OVERDEER

WARREN W. WEBB

Resident Staff

RESIDENT PSYCHIATRISTS

PETER L. DERUITER

WILLARD SEGERSON

ASSISTANT RESIDENT PSYCHIATRISTS

HARVEY W. ANDERSON

MURRAY FELDBERG

PATRICIA H. SHARPLEY

JAMES C. GAMMILL

RADIOLOGY

HERBERT C. FRANCIS, *Radiologist-in-Chief*

Emeritus Staff

C. C. McCLURE, SR.

Visiting Staff

JOSEPH H. ALLEN, JR.

WILLIAM M. HAMILTON

MINYARD D. INGRAM, JR.

JOHN BEVERIDGE

GRANVILLE W. HUDSON

JOSEPH IVIE

CLIFTON E. GREER

BEN R. MAYES

Resident Staff

RESIDENT RADIOLOGISTS

W. FAXON PAYNE

DAVID D. PAULUS, JR.

JOSEPH D. STOKES

ASSISTANT RESIDENT RADIOLOGISTS

EDMUND B. BRANTLY

WILLIAM H. HILL

SURGERY

H. WILLIAM SCOTT, JR., *Surgeon-in-Chief*

SURGEONS TO THE HOSPITAL

Emeritus Staff

HENRY L. DOUGLASS

DUNCAN EVE

LEONARD W. EDWARDS

HARRISON H. SHOULDERS, SR.

Visiting Staff

EDMUND W. BENZ	SAM Y. GARRETT	BARTON McSWAIN
STANLEY BERNARD	CARL N. GESSLER	JAMES ANDREW MAYER
CLOYCE F. BRADLEY	WALTER G. GOBBELL	I. ARMISTEAD NELSON
BENJAMIN F. BYRD, JR.	HERSCHEL A. GRAVES	OSCAR NOEL
WILLIAM R. CATE, JR.	ROY G. HAMMONDS	JEFFERSON PENNINGTON
HAROLD A. COLLINS	JACKSON HARRIS	DAVID R. PICKENS, JR.
WILLIAM ANDREW DALE	LYNWOOD HERRINGTON	DOUGLAS H. RIDDELL
ROLLIN A. DANIEL, JR.	GEORGE W. HOLCOMB	LOUIS ROSENFELD
WALTER DIVELEY	JAMES A. KIRTLEY, JR.	ROBERT N. SADLER
GEORGE DUNCAN	RALPH M. LARSEN	JOHN L. SAWYERS
WILLIAM H. EDWARDS	A. BRENT LIPSCOMB	N. S. SHOFNER
PARKER D. ELROD	JACKSON P. LOWE	H. H. SHOULDERS, JR.
JOHN L. FARRINGER, JR.	JERE W. LOWE	SAM E. STEPHENSON, JR.
JOHN H. FOSTER	ROBERT L. McCRACKEN	CHARLES C. TRABUR
JAMES C. GARDNER	M. CHARLES McMURRAY	BERNARD M. WEINSTEIN

DENTAL SURGERY

Emeritus Staff

WALTER M. MORGAN

OREN A. OLIVER

Visiting Staff

JAMES B. BAYLOR	FRANK H. DEPIERRI, JR.	CHARLES J. LADD
ROBERT B. BOGLE	WILLIAM S. GRAY	EDWARD H. MARTIN
E. THOMAS CARNEY	FRED H. HALL	FRED M. MEDWEDEFF
	ELMORE HILL	

NEUROLOGICAL SURGERY

Visiting Staff

JOE M. CAPPS	WILLIAM F. MEACHAM	ARNOLD MEIROWSKY
CULLY COBB		CHARLES D. SCHEIBERT

ORTHOPEDIC SURGERY

Visiting Staff

J. JEFFERSON ASHBY	JOHN R. GLOVER	A. BRANT LIPSCOMB
JOE G. BURD	ARNOLD HABER, JR.	ANDREW H. MILLER
GEORGE K. CARPENTER	CHARLES M. HAMILTON	THOMAS F. PARRISH
DON L. EYLER	J. WILLIAM HILLMAN	EUGENE M. REGEN
S. BENJAMIN FOWLER		

OTOLARYNGOLOGY

Visiting Staff

MORRIS ADAIR	J. THOMAS BRYAN	GUY M. MANESS
CLYDE ALLEY, JR.	HERBERT DUNCAN	W. W. WILKERSON, JR.
	WILLIAM G. KENNON, JR.	

PLASTIC SURGERY

Visiting Staff

BEVERLY DOUGLAS, *Emeritus*

GREER RICKETSON

KIRKLAND W. TODD, JR.

UROLOGICAL SURGERY

Visiting Staff

E. H. BARKSDALE
CHARLES E. HAINES, JR.
A. PAGE HARRIS

ALBERT P. ISENHOUR
ROBERT E. McCLELLAN
TOM E. NESBITT

PHILLIP P. PORCH, JR.
HARRY S. SHELLY
JOHN M. TUDOR

Resident Staff

(Vanderbilt University Hospital-Thayer Veterans Administration Hospital)

RESIDENT SURGEONS

JAMES R. HEADRICK

DUNCAN A. KILLEN

ROBERT W. YOUNGBLOOD

ASSISTANT RESIDENT SURGEONS—GENERAL SURGERY

WILLIAM C. ALFORD
WALEED N. AMRA
ISAM N. ANABYAWI
JAMES E. BLACKBURN
STANLEY BROCKMAN
JAMES M. CALLAWAY
JAMES H. FLEMING

JAMES L. GUEST
J. KENNETH JACOBS
CHAMBLESS R. JOHNSTON
FLOYD BEACHLEY MAIN
DONALD V. McCONNELL
JAMES A. O'NEILL
WILLIAM R. PRIDGEN
W. GARDNER RHEA

ROBERT E. RICHIE
ROBERT T. SESSIONS
WILLIAM S. STONEY
PANAGIOTIS SYMBAS
E. DEWEY THOMAS
ELLIS A. TINSLEY
E. WILLIAM WINFREY,
III

ASSISTANT RESIDENT SURGEONS—NEUROLOGICAL SURGERY

ARTHUR BOND

HOSSEIN SAKHAI

MANUEL TALLON-ZARZA

RESIDENT SURGEONS—ORTHOPEDIC SURGERY

GEORGE E. FREEMAN, JR.
JOHN M. WAMPLER

ASSISTANT RESIDENT SURGEONS—ORTHOPEDIC SURGERY

G. WILLIAM DAVIS, JR.
BRUCE DERBYSHIRE

JOHN R. JONES

ROBERT J. SMITH
PHILLIP L. WILLIAMS

ASSISTANT RESIDENT SURGEONS—UROLOGIC SURGERY

OLIVER P. CAMPBELL

NEIL O. CHAMBERLAIN

DAVID M. WOODHEAD

INTERNS

ROBERT L. BOMAR, JR.
WILLIAM M. COCKE, JR.
G. NELSON COPELAND
SELLERS L. CRISP

CALVIN H. CURRY, JR.
RENALD R. DiNELLA
LARRY E. DOUGLASS
ROBERT H. EDWARDS

LARRY H. PARROTT
HAROLD E. SNYDER
TERRY TAYLOR
WILLIAM G. WHEELER,
JR.



Staff Officers of the Outpatient Service

DAVID H. LAW, *Director of Outpatient Clinics*

MEDICINE

DAVID E. ROGERS, *Physician-in-Chief*

RUDOLPH H. KAMPMEIER, *Chief of Clinic*

F. TREMAINE BILLINGS, *Associate Chief of Clinic*

LAURENCE A. GROSSMAN, *Assistant Chief of Clinic*

JAMES N. THOMASSON, *Assistant Chief of Clinic*

ALLERGY

CLARENCE S. THOMAS, *Chief*

ARTHRITIS

B. J. ALPER, *Chief*

CARDIOVASCULAR DISEASES

W. DAVID STRAYHORN, *Chief*

DIABETES

ALBERT WEINSTEIN, *Chief*

DIGESTIVE DISEASES

HARRISON J. SHULL, *Chief*

ENDOCRINE DISEASE

GRANT W. LIDDLE, *Chief*

GASTROENTEROLOGY

HARRISON J. SHULL, *Chief*

HEMATOLOGY

ROBERT C. HARTMANN, *Chief*

PULMONARY DISEASES

CLARENCE C. WOODCOCK, Jr., *Chief*

DERMATOLOGY

ROBERT N. BUCHANAN, *Chief of Clinic*

NEUROLOGY

BERTRAM E. SPROFKIN, *Chief of Clinic*

OBSTETRICS AND GYNECOLOGY

FRANK E. WHITACRE, *Obstetrician and Gynecologist-in-Chief*

OBSTETRICS

D. SCOTT BAYER, *Chief of Clinic*

GYNECOLOGY

JOSEPH D. ANDERSON, *Chief of Clinic*

GYNECOLOGY TUMOR

G. SYDNEY McCLELLAN, *Chief of Clinic*

OPHTHALMOLOGY

GEORGE W. BOUNDS, *Acting Ophthalmologist-in-Chief*

ALLEN LAWRENCE, *Chief of Clinic*

PEDIATRICS

AMOS CHRISTIE, *Pediatrician-in-Chief and Chief of Clinic*

FAMILY AND WELL BABY

AMOS CHRISTIE, *Chief*

PEDIATRIC ALLERGY

JAMES C. OVERALL, *Chief*

PEDIATRIC CARDIOLOGY

MILDRED STAHLMAN, *Chief*

PEDIATRIC DIABETIC

ERLE E. WILKINSON, *Chief*

PEDIATRIC METABOLIC

ERNEST E. MCCOY, *Chief*

PEDIATRIC SEIZURE

DAN S. SANDERS, *Chief*

PSYCHIATRY

WILLIAM F. ORR, *Psychiatrist-in-Chief*

ROBERT W. ADAMS, *Chief of Clinic*

ROBERT W. ADAMS, *Assistant Chief of Clinic*

SURGERY

H. WILLIAM SCOTT, JR., *Surgeon-in-Chief*

BARTON McSWAIN, *Chief of Surgical Outpatient and Emergency Services*

DENTAL SURGERY

ROBERT B. BOGLE, *Chief of Clinic*

EMERGENCY SERVICE

JOHN H. FOSTER, *Assistant Chief*

GENERAL SURGERY

SAM E. STEPHENSON, JR., *Chief of Clinic*

NEUROLOGICAL SURGERY

CULLY A. COBB, JR., *Chief of Clinic*

ORTHOPEDIC SURGERY

J. WILLIAM HILLMAN, *Chief of Clinic*

OTOLARYNGOLOGY

J. THOMAS BRYAN, *Chief of Clinic*

PLASTIC SURGERY

GREER RICKETSON, *Chief of Clinic*

THORACIC SURGERY

ROLLIN A. DANIEL, JR., *Chief of Clinic*

TUMOR

BARTON McSWAIN, *Chief of Clinic*

UROLOGICAL SURGERY

A. PAGE HARRIS, *Chief of Clinic*

GENERAL INFORMATION

The first diplomas of graduation from Vanderbilt University were issued to sixty-one new Doctors of Medicine on February 25, 1875. The diplomas were in accord with an arrangement that the Vanderbilt trustees had made with the University of Nashville whereby that university's medical school was recognized as serving both institutions. The students could elect to receive their degrees from either university. Thus Vanderbilt embraced a fully-organized and functioning medical school before its own campus was ready for classes in October of that year.

The arrangement continued for twenty years, and the School of Medicine remained on the old "South Campus" for thirty more. In the beginning, the School was owned and operated as a private property of the practicing physicians and surgeons who comprised the faculty and received the fees paid by the students. This system was typical of medical education in the United States at that time. Vanderbilt made no financial contribution to the School's support and had no control over the admission requirements, the curriculum, or the standards for graduation. Even so, the catalogue proclaimed the instruction to be "inferior in no respect to that of any medical school in the country."

In 1895, the School was reorganized under the control of the Board of Trust. The requirements for admission were raised, the course of study was lengthened, and the system of instruction was changed to make way for laboratory work in the basic sciences. Subsequently there was a gradual increase in the quality of training offered.

The famous report of Abraham Flexner, which was published by the Carnegie Foundation in 1910 and was afterward credited with revolutionizing medical education in America, singled out Vanderbilt as "the institution to which the responsibility for medical education in Tennessee should just now be left." The Flexner Report declared Vanderbilt to be "the only institution in position at this junction to deal with the subject effectively. This does not mean that Vanderbilt has now any large sums of money available . . ."

Large grants from Andrew Carnegie and his foundation and from the Rockefeller-financed General Education Board enabled Vanderbilt to carry out the recommendations of the Flexner Report. (These two philanthropists, with the Ford Foundation added in recent years, contributed altogether more than \$20,000,000 to the School of Medicine from 1911 onward.) The reorganized School drew upon the best-trained scientists and teachers in the nation for its faculty. The full benefits of the reorganization were realized when the decision was made to move the School to the main campus, thus integrating instruction in the medical sciences with the rest of the University.

MEDICAL CENTER BUILDINGS

When the School's new quarters were opened in 1925, they were called "the best-arranged combination school and hospital to be found in the

United States." Over the years additions have been made to keep the research and clinical facilities abreast of new developments. The Medical Center buildings now encompass some half-million square feet of floor space.

The Andrew B. Learned Graduate Science Hall contains a center for radiological research. This laboratory provides space for scientists of the Graduate School as well as the School of Medicine, thus permitting researchers from the many disciplines to work together on the different facets of common problems.

Other buildings in the Medical Center include the Medical Arts Building, erected in 1955 to provide part-time members of the clinical faculty with convenient office space; Mary Henderson Hall, which houses the Vanderbilt University School of Nursing; and the Bill Wilkerson Hearing and Speech Center, a community-operated diagnostic and treatment center for audiological and speech problems.

The Medical Center contains all the equipment and facilities necessary to operate a modern teaching hospital and a school of medicine. The School is designed to accommodate a total of 200 students in classes of 50 each. The laboratories and clinical facilities are closely coordinated with the purpose that there shall be a ready flow of ideas between the laboratories of the medical sciences and the wards and outpatient clinics. Teaching laboratories especially designed for their purposes are provided for the major subdivisions within medical science and for the clinical departments.

The lecture rooms are well equipped. The amphitheater can accommodate practically the entire student body. In each department students come in close contact with postgraduate and research workers.

The hospital contains 400 beds and 52 bassinets divided into the following seven service units: medicine, surgery, obstetrics, gynecology, pediatrics, ophthalmology, and psychiatry. The entire hospital is staffed by members of the teaching faculty of the School of Medicine.

Adjoining the wards of the hospital there are laboratories equipped for diagnostic procedures in which the students perform various tests and examinations which the cases assigned to them may require.

The outpatient clinics are located on the first floor of the Garland Avenue side of the building. They are especially designed for teaching and contain a series of examining, treatment, and teaching rooms for general medicine and surgery, pediatrics, neurology, dermatology, psychiatry, dental surgery, orthopedic surgery, ophthalmology, otolaryngology, obstetrics, gynecology, and urology. Several small clinical laboratories are located conveniently nearby.

The Department of Radiology, which is equipped for cobalt therapy, is conveniently located with respect to the outpatient clinics and the hospital beds.

There are nine operating rooms, of which six are equipped for special surgical procedures. There are three delivery rooms, with the necessary complement of preparation and labor rooms.

Besides the clinical facilities offered by the wards and outpatient clinics of the University Hospital, the School of Medicine has clinical privileges

in the 2300-bed Central State Hospital for psychiatric patients. Vanderbilt is also affiliated with the 525-bed Thayer Veterans Administration Hospital and has its facilities available.

MEDICAL LIBRARY

The Library of the School of Medicine was founded in 1906. A year later the Nashville Academy of Medicine made the School a gift of the private library of Dr. Richard Douglas, consisting of 2,500 volumes. This nucleus was augmented from time to time by generous gifts from various local physicians. The library has been the recipient of many grants from the Rockefeller Foundation which made rapid development possible. The collection now contains most of the material needed for research in any of the medical sciences. It contains complete files of the majority of the important journals, both in English and foreign languages, and new titles are being constantly added. Numerous well-selected monographs and basic textbooks are available as well as the important reference works and bibliographic indexes.

The Library on May 1, 1960 contained 60,431 volumes and received 954 current periodicals and serial publications including the annual and statistical reports put out by the various state departments of health as well as federal documents relating to health and medicine.

A collection of books and journals illustrating the history and development of the literature of medicine, especially that of the United States, is being built up. This collection contains, in addition to books, objects illustrating the history of medicine. The funds for acquiring this collection have come largely through the generous gifts of persons interested in the Library. Donations of letters, photographs, books, and money are invaluable for the purpose of extending this collection.

Important reference tools and journals in the pure sciences are available on the campus in close proximity to the Medical School through the facilities of the Joint University Libraries, which contained a total of 785,282 volumes as of May 1, 1960.

Well-trained librarians are on hand to render aid in the reading room; a feature of the service is the instruction in the use of the Library given Medical students of the first-year class. Early in the first semester these students are given a brief orientation period on the arrangement and use of the Library. Later in the year they are given round-table instruction, in small groups, on the use of the materials available, both English and foreign. They are shown how to consult reference works and indexes, how to prepare bibliographies, and how to write scientific papers. This course is aimed to coincide with the preparation of papers which are based on periodical literature and which the students must prepare in connection with their work in certain major subjects.

The Library has facilities for the use of microfilm and maintains an inter-library loan service both with local and out of town libraries.

The reading room is open from 8:15 A.M. to 11:00 P.M. Monday through Friday; from 8:15 A.M. to 4:30 P.M. on Saturday, and from 9:00 to 12:00 A.M.

and 2:00 to 5:00 P.M. on Sunday. The Medical Library is closed on legal holidays.

LECTURESHIPS

ALPHA OMEGA ALPHA LECTURE. The Alpha Omega Alpha Honor Medical Society invites a scientist of prominence each year to deliver a lecture before the students, faculty, and local members of the medical profession. The first lecture was given during the school year 1926-1927.

THE BARNEY BROOKS MEMORIAL LECTURESHIP IN SURGERY. In 1952 through the generosity of a Vanderbilt alumnus an annual lectureship was established to honor the memory of Dr. Barney Brooks, formerly Professor of Surgery and Head of the Department and Surgeon-in-Chief of the Vanderbilt University Hospital. As a fitting memorial to Dr. Brooks it is planned that this lecture be given by a surgeon who has made distinguished contributions in this field and that the subject matter shall pertain to surgery in the broad sense, either clinical or experimental. The first Barney Brooks Memorial Lecture in Surgery was given during the Spring of 1953.

THE ABRAHAM FLEXNER LECTURESHIP. Announcement was made in the fall of 1927 that Mr. Bernard Flexner of New York City had given \$50,000 to Vanderbilt University for the purpose of establishing the Abraham Flexner Lectureship in the School of Medicine. This lectureship is awarded every two years to a scientist of outstanding attainments who shall spend as much as two months in residence in association either with a department of a fundamental science or of a clinical branch. This lectureship may also be given to one who has specialized in some science fundamental in the study of medicine. The first series of lectures was given in the fall of 1928.

GLENN A. MILLIKAN MEMORIAL LECTURE. This lectureship was established in 1947 by the members of the then second-year class. It has subsequently received support by means of a capital fund by Dr. Glenn Millikan's father and mother, Dr. Robert A. Millikan and Mrs. Gretna B. Millikan, and friends. Contributions will continue to be made to the fund by members of the founding class and other students. The lectureship is maintained to provide annually or at stated periods a distinguished lecturer in physiology. The first lecture was given in 1948.

THE COBB PILCHER MEMORIAL LECTURER. In 1950 the Pi Chapter of the Phi Chi Medical Fraternity established the Cobb Pilcher Memorial Lecture to honor the memory of Dr. Pilcher, formerly Associate Professor of Surgery, distinguished neurosurgeon, and a member of the fraternity. Each year a lecturer of prominence is selected, and the lecture is open to the medical students, faculty, and local members of the medical profession. The first lecture was given in 1950.

ENDOWED RESEARCH CHAIR

THE JOB AND MORRIS WERTHAN CHAIR OF EXPERIMENTAL MEDICINE. Through the generosity of the Werthan family of Nashville, this professorship was established in 1951 from the purpose of furthering research in the general field of internal medicine. The present holder of the chair is Dr. Elliot V. Newman.

ENDOWED RESEARCH FUNDS

THE RACHAEL CARPENTER MEMORIAL FUND. This fund was established in 1933 by a gift of \$5,000 from Mrs. Mary Boyd Carpenter of Nashville. The income derived from this fund is to be used for education in the field of tuberculosis.

THE BROWNLEE O. CURRY MEMORIAL FUND FOR RESEARCH IN HEMATOLOGY. A memorial fund created by the friends of Brownlee O. Curry, the income from which is being used for the support of research in the field of hematology.

THE JACK FIES MEMORIAL FUND. The sum of \$5,000 was given to Vanderbilt University by Mrs. Hazel H. Hirsch as a memorial to her son, Jack Fies, the income from which is to be used to support research in the important field of neurological surgery. It is hoped that subsequent donations may be made by those who may be interested in creating a larger fund for this phase of research.

THE JOHN B. HOWE FUNDS FOR RESEARCH. In January, 1946, the members of the family of the late John B. Howe established two funds in the University to be known as the John B. Howe Fund for Research in Neurosurgery and the John B. Howe Fund for Research in Medicine. The expenditures from the funds for neurosurgery and medicine are administered through the Department of Surgery and the Department of Medicine.

THE GEORGE HUNTER LABORATORY. This laboratory for the study of infectious diseases was established as a part of the Department of Medicine from funds provided by the Benwood Foundation, Inc., of Chattanooga, Tennessee, in honor of Mr. George Hunter of that city.

THE MARTHA WASHINGTON STRAUS-HARRY H. STRAUS FOUNDATION, INC. The Foundation provides support for research in the Department of Medicine in the field of cardiovascular diseases.

THE LESLIE WARNER MEMORIAL FUND FOR THE STUDY AND TREATMENT OF CANCER. This fund was established in 1932 in the memory of Leslie Warner of Nashville, Tennessee. It consists of \$7,200, of which \$3,600 was contributed by the nieces and nephews of Mrs. Leslie Warner.

FELLOWSHIPS AND SCHOLARSHIPS

THE HOWARD HUGHES MEDICAL INSTITUTE. Investigators of the Howard Hughes Medical Institute who are currently pursuing research programs in the Departments of Medicine, Physiology, Biochemistry, Anatomy, and

Physics (College of Arts and Science) are Dr. Lloyd H. Ramsey, Assistant Professor of Medicine; Dr. Howard E. Morgan, Assistant Professor of Physiology; Dr. Jan van Eys, Assistant Professor of Biochemistry; Dr. John Langdon Norris, Assistant Professor of Anatomy; and Dr. Paul Latimer, Assistant Professor of Physics.

THE IKE J. KUHN SCHOLARSHIP. This scholarship is provided by a bequest from the will of Mr. Ike J. Kuhn, and is awarded in the School of Medicine to a worthy boy or girl born and reared in any of the states commonly known as the "Southern States."

DR. COBB PILCHER-WILLIAM HENRY HOWE FELLOWSHIP IN NEUROSURGERY. In December 1945, the William Henry Howe Fellowship in Neurosurgery was established in the School of Medicine of Vanderbilt University. This fellowship was made available to the University by the late Dr. Pilcher and has been continued by the generosity of his family and friends.

STUDENT RESEARCH PROGRAM

As a supplement to the regular medical curriculum selected students may engage in research projects under the sponsorship of members of the faculty. Stipends range usually from \$500 to \$600 for the period of the fellowship and are provided from a variety of sources including the United States Public Health Service, National Science Foundation, The National Foundation, Lederle Laboratory Division of American Cyanamide Company, The Tobacco Industry Research Foundation, The Allergy Foundation of America and others. Part of this research may be carried on under special circumstances during the school year and full-time summer research may be arranged. Those students showing a marked aptitude for research may make arrangements to interrupt their regular medical training for one or more years of research training. This program is flexible to meet the needs and interests of individual students.

VANDERBILT MEDICAL SOCIETY

The Vanderbilt Medical Society holds regular monthly meetings throughout the academic year, on the first Friday of each month at 8 P.M. in the Medical School amphitheater. At these meetings papers are presented by the teaching staff, representing the research that is being carried on in the various departments. Patients presenting interesting and unusual conditions are also demonstrated. These meetings are open to students of the School and to the medical profession of the community.

The officers of the Vanderbilt Medical Society for 1960-61 are Dr. David E. Rogers, president, and Dr. Ernest E. McCoy, secretary.

VANDERBILT SOCIETY OF HISTORICAL MEDICINE

The Society was organized by the Class of 1953 for the purpose of encouraging awareness and appreciation of our medical heritage in the medical school community. Regular dinner meetings are held at which interesting speakers are invited to present papers for discussion. In the interest of fostering "a clear view of the panorama of medicine," membership in the Society is open to both students and faculty. Demonstrations and displays of books and pictures of historical significance are provided through the courtesy of the Medical Library.

ADMISSION

The School of Medicine selects its students from those who fulfill one of the following conditions:

1. Graduates of a college or university of recognized standing.
2. Seniors in absentia of a college or university or recognized standing who will be granted the Bachelor's degree by their colleges after having completed successfully at least one year of the work in the School of Medicine. A properly accredited statement in this effect from the colleges shall accompany all applications for admission as seniors in absentia. A form is furnished for this purpose.
3. Students of foreign universities of recognized standing who have completed at least the equivalent of three years of collegiate education may be admitted to the School of Medicine at the discretion of the Committee on Admissions.

The number of students admitted to the first-year class of the School of Medicine is limited to fifty-two. Women are admitted on equal terms with men.

As admission to the School of Medicine is competitive, students will be selected on the basis of the quality of their college work and the general fitness of the applicant for the study of medicine.

MINIMUM REQUIREMENTS

Every candidate must present evidence of having satisfactorily completed during his college course the following minimum requirements, in which a semester hour is the credit value of sixteen weeks' work consisting of one hour of lecture or recitation or at least two hours of laboratory work:

1. *Biology*. One full course of 8 semester hours including laboratory work. The course may be general biology, zoology, or zoology and botany, but not more than half may be botany.
2. *Chemistry*. A minimum of 12 semester hours is required. Eight of these must be in general inorganic chemistry including laboratory work. There must be presented also 4 semester hours credit for organic chemistry covering both aliphatic and aromatic compounds including laboratory work.
3. *Physics*. Eight semester hours are required including laboratory work. It is desirable that emphasis be placed on quantitative laboratory work.
4. *English and Composition*. Six semester hours.

No credit can be given in the School of Medicine for courses taken in academic school even though they duplicate the content of courses in the medical school curriculum. Because of this fact, students are urged not to

take such courses but to devote their time to work which will strengthen their foundation in basic natural and social sciences and mathematics and their culatural background.

MEDICAL COLLEGE ADMISSION TEST

The Medical College Admission Test should be taken during the year previous to application for admission to the School of Medicine. This test is given under the auspices of the Association of American Medical Colleges, and is required of applicants to Vanderbilt. It is given twice a year at most universities and colleges and information concerning it is posted before the date of examination. Since the examination score is used by medical schools in the selection of applicants, students should take the test, at the latest, in May prior to the time application is submitted.

The scholastic record, together with recommendations and the score made on this examination, will be used by the Committee on Admissions in considering applications for admission to the School of Medicine.

APPLICATIONS

Applications for admission may be filed about one year in advance of date of entrance at which time the Committee on Admissions begins its consideration of applicants. The applications are passed upon by the Committee on Admissions, and a final decision of acceptance or rejection may be reached at any time.

Each applicant is required to furnish the names of three persons as references, two of them perferably from among his science teachers, when filing his application. A small unmounted photograph is required also at this time.

Successful applicants are required to make a deposit of \$50 within a specified time after notification of their acceptance. This deposit is credited toward the payment of the first tuition and in the event the student does not matriculate is not returnable.

Application forms may be obtained by applying to the Registrar, School of Medicine, Vanderbilt University, Nashville 5, Tennessee. A check or money order for \$10, payable to the School of Medicine, Vanderbilt University, must accompany each application when it is submitted. This is not returnable.

ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing, when vacancies occur, under the following conditions. Applications for advanced standing should be filed according to the procedure described for admission to the first year class, acceptable applicants being required to make the same deposit of \$50. Applicants must furnish acceptable evidence of having completed the conditions of admission and of having completed satisfactorily in an accredited

medical school all the work required of students of the class they desire to enter. They must also present a certificate of honorable dismissal from the medical school or schools they have attended.

STUDENT HEALTH SERVICE

1. A physical examination by the family physician is required of all new students.

2. For their own and others' protection against communicable disease, all new students are required to have had an X-ray of the chest within a twelve-month period prior to admission to the University and a vaccination against smallpox within the prior three years. It is highly recommended that all students also be properly immunized against typhoid, tetanus, polio, and diphtheria.

3. The University furnishes the following health service for all properly matriculated students:

Daily Care of Sick: The Student Health Service office is maintained for sick students who are confined to bed.

Infirmary Care: The infirmary is maintained for students with mild illness who are confined to bed. The stay is limited to four days per illness, except in certain infectious diseases.

Hospital Care: A student who is severely ill may be admitted to the hospital on authorization of the Student Health Service. A credit of \$50 will be allowed on hospital expense for one admission per semester.

The student may choose either of the following hospital services: (a) *Staff Service*—This is a special service to Vanderbilt students. There is no charge for the professional services for the house and attending staff of Vanderbilt Hospital. Students are assigned to ward units. (b) *Private Service*—This includes the services of a private physician or surgeon whom the student will pay for professional services. The student has a choice of room accommodations at prevailing charges, plus extras.

Emergency Service: At hours when the Student Health Service is closed, students may receive emergency care at the Emergency Service. Student identification card must be presented.

Special medication, special services such as nursing care, x-ray examination, special laboratory tests, and referrals to specialists will be paid for by the student.

4. *Student Insurance Plan:* A health insurance plan has been adopted by the University for all students. Students adequately protected by other insurance or who, for other reasons, do not wish to be enrolled in this plan must sign a waiver before September 30 of the year concerned. Otherwise, coverage is automatically provided. Married students desiring to insure their families must apply for dependent coverage.

The plan is designed to supplement the Student Health Service and provides hospital, surgical, and in-hospital medical care benefits. For an annual premium of \$12 the plan provides coverage for 12 months including vacation periods.

All inquires as to details should be directed to Insurance Service Co., 1309 Nashville Trust Bldg., Nashville 3, Tennessee.

REGULATIONS

ALL examination work in this University is conducted under the Honor Code. For the successful operation of the honor system the cooperation of every student is essential. It is the duty of each student to show his appreciation of the trust reposed in him under this code, not alone by his own conduct, but by insisting on the absolute honesty of others in his class. For the purpose of investigating cases of violation of this system, there exists a Student Honor Committee.

EXAMINATIONS AND PROMOTIONS

Successful completion of the various courses of the medical curriculum and the scholastic standing are determined by the character of the student's daily work and the results of examinations. Examinations may be written, oral, or practical, and they may be held either at the completion of each course or at the end of the academic year. The quality of the work of each student is considered, usually at the end of each quarter, by a committee composed of the instructors responsible for his more important courses.

Students who fail in two major courses at any time during their medical course year or fail a reexamination in a major course may be required to withdraw from the School. Students who have had no reported failures may be required to withdraw from the School if their work has been of a generally unsatisfactory quality. Students may be given credit for a subject by reexamination, but failures remain on their records, and may be counted as a cause for requesting withdrawal, provided another failure in a major course occurs.

Major Courses are as follows:

First Year—Gross Anatomy, Histology, Biochemistry, and Physiology.

Second Year—Microbiology, Pathology, Pharmacology, Introduction to Clinical Medicine including Physical Diagnosis, and Clinical Pathology.

Third Year—Medicine, Surgery, Surgical Pathology, Pediatrics, and Obstetrics.

Fourth Year—Medicine, Surgery, Pediatrics, Gynecology, and Psychiatry.

Grades regarding their relative scholastic standings are not given to students. Students will be notified whenever the Committee on Promotion considers their work of poor quality, thus serving notice of the necessity for greater effort in order to carry the work of the School.

Any student who indicates by his work or his conduct that he is unfit for the practice of medicine may be requested to withdraw from the School at any time.

Any student who fails to pass a course will be required to remove the failure before being permitted to enter the courses of the next academic year.

REQUIREMENTS FOR DOCTOR OF MEDICINE DEGREE

The candidates for the degree of Doctor of Medicine must have attained a mature age and be of good moral character. They must have spent at least four years of study as matriculated medical students unless that requirement is waived at the discretion of the School upon evidence of having completed satisfactorily the equivalent studies. The last two years of this study must have been in this School. They must have completed satisfactorily all the required courses of the medical curriculum, have passed all prescribed examinations, and be free of indebtedness to the University. At the completion of the four-year course every student who has fulfilled these requirements will be recommended for the degree of Doctor of Medicine.

NATIONAL BOARD EXAMINATIONS

All second-year students are required to take Part I and all fourth-year students are required to take Part II of the National Board Examinations. Part II is given in April and Part I is given in June.

BASIC SCIENCE EXAMINATIONS

About twenty states now require examinations on the basic science subjects (anatomy, bacteriology, chemistry, pathology, and physiology) as a preliminary to medical licensing examinations. Since the various states are not uniform in their requirements, a considerable impediment to movement of physicians from state to state by reciprocity is created. Each student is urged to take the basic science examinations as soon as he is qualified to do so unless he is sure that he will confine his practice to a state not requiring such examinations.

EXTRACURRICULAR WORK

Students engaging in outside work must report such activity at the beginning of the school year or at any time during the school year that such work is undertaken. In those instances in which the work is considered to be or likely to become prejudicial to the student's satisfactory scholastic accomplishment and education, he may be required to discontinue it.

HONORS AND AWARDS

FOUNDER'S MEDAL. This medal is awarded to the student in the graduating class of each School of the University who has attained the highest average standing in scholarship throughout the four consecutive years of study.

ALPHA OMEGA ALPHA. A chapter of this honor medical society was established by charter in the School of Medicine in 1923. Not more than one-fifth of the students of the fourth-year class are eligible for membership and only one half of the number of eligible students may be selected to membership during the last half of their third year. This society has for its purpose the development of high standards of personal conduct

and scholarship, and the encouragement of the spirit of medical research. Students are elected into membership on the basis of their scholarship, character, and originality.

THE BEAUCHAMP SCHOLARSHIP. This scholarship, founded by Mrs. John A. Beauchamp in memory of her husband who was for many years superintendent of the Central State Hospital at Nashville, is awarded to the student showing the greatest progress in neurology and psychiatry and who is otherwise worthy and deserving.

THE BORDEN UNDERGRADUATE RESEARCH AWARD IN MEDICINE. Established in 1945 by the Borden Company Foundation, Inc., this award provides annually \$500 to the person in the graduating class of the School of Medicine who during any year while enrolled in the School has carried out the most meritorious undergraduate research in the medical field. All persons in the graduating class are eligible. The award is presented at the time of graduation of the recipient. Originality and thoroughness of research shall be of primary consideration. Candidates for the award should apply to the Dean of the School of Medicine for consideration.

THE MERRELL AWARD PATHOLOGY. Established in 1953 by the William S. Merrell Company, this award of \$150 is provided annually for the two most outstanding papers on research in the field of pathology, regardless of subject matter, by Vanderbilt University medical students. The author of the first place paper will be awarded \$100 and the author of the second place paper, \$50. The Merrell Company requires permission to edit, abstract, condense, or illustrate the paper in a form suitable for inclusion in its publication *Progress Notes*. The authors are free to publish their papers in any recognized medical or scientific journal. The selection of the papers is made by the Dean or by a committee appointed by him. Award is made at the end of the school year. Participation is not restricted to any one year. Candidates for the award should submit their papers to the Dean.

EXPENSES

The average annual expense of a student in the School of Medicine, exclusive of clothes and incidentals but including living accommodations, are estimated as amounting to approximately \$2,000 to \$2,500.

TUITIONS AND FEES

The University reserves the right to change the schedule of tuition and fees without further notice.

Application Fee (<i>To accompany Application Form</i>).....	\$ 10.00
Tuition Fee for the Academic Year.....	\$ 1,200.00
<i>This tuition fee may be paid in equal installments at the beginning of each term. Any student who has failed to pay tuition and other fees ten days after they are due will be excluded from classes, except when under unusual circumstances an extension of time is allowed by the Dean. An arrearage in tuition for any session must be paid before admission to the succeeding session.</i>	
Contingent Deposit.....	10.00
<i>This deposit will be required of first and second year students to cover breakage of apparatus and damage to building, and will be returned, less the charges, at the close of the academic year.</i>	
Breakage Fee.....	10.00
<i>This fee will be required of third and fourth year students at the beginning of each academic year and is not returnable.</i>	
Diploma Fee (<i>Charged to graduating students, payable during the third quarter</i>).....	10.00

First-year medical students who are also senior in absentia students at Vanderbilt University are required by the College of Arts and Science to pay a \$60 senior in absentia fee.

Students who register for the regular courses in the Medical School must pay the full tuition each year. There will be no exception to this requirement.

Graduate students who enroll in regular courses in the medical curriculum for credit toward an academic degree and later become candidates for the degree of Doctor of Medicine may be required to pay the full tuition as indicated above.

All students who fail to register on the days designated will be charged a fee of \$5 for late registration.

Students who withdraw from the University for any reason or who are dismissed or requested to withdraw by the faculty after the beginning of a term are not entitled to any return or repayment of tuition, fees, room rent, or any other regular charges or assessments, and the University will not be liable for the return or refund of same.

MICROSCOPES, BOOKS, ETC.

Each student is required to possess a standard four-objective microscope and a suitable substage light.

The minimal cost of books is approximately \$75 a year. All purchases made at the Vanderbilt Book Store are on a cash basis.

All students are required to provide themselves with hemocytometers, hemoglobinometers, and ophthalmoscopes before the beginning of the second quarter of the second year.

Students are required also to provide and to wear clean white laboratory coats.

FINANCIAL ASSISTANCE

Vanderbilt University School of Medicine is pleased to announce that a number of scholarships and loans are available to worthy applicants. These vary from small loans to scholarships amounting to \$1,200 yearly. Applicants with distinguished scholastic records, especially those needing financial assistance, are encouraged to take advantage of these. Information and application forms may be obtained from the Committee on Fellowships and Scholarships or from the Dean's Office.

LIVING ARRANGEMENTS

The Vanderbilt residence halls are designed to foster a sense of community on the University campus and to carry the learning experience into every phase of the resident student's life. As such, they are an integral part of the University's educational facilities. Through group activity and supervised self-government, the student may develop as individual and as citizens with a full knowledge of attendant responsibilities.

Rooms may be occupied on the day before the opening of the semester and through the last day of the semester. Basic furniture is provided by the University, and the occupant is responsible for the condition of both furniture and room, being charged with all damage. Residents furnish their own sheets, pillow cases, towels, pillows, and blankets. Sheets, pillow cases and towels may be rented, if desired. All rent is payable in advance by the semester at the Bursar's Office.

Rooms are not rented for less than one semester. Students who withdraw from the University for any reason, or who are dismissed, or are requested to withdraw by the faculty after the beginning of a semester, are not entitled to return or repayment of room rent or any other regular charges or assessments, and the University will not be liable for their return or refund.

Rooms for men may be reserved by application to the office of the Dean of Men; rooms for women, by application to the office of the Dean of Women. Both offices are in Kirkland Hall. A room reservation deposit of \$50 is required at the time of reservation. Refund of the room reservation deposit will be considered if the cause for the request is judged to be a matter beyond the applicant's control and if the request, in writing, is received by July 1.

Single rooms for men are available in the residence hall for graduate and professional students, constructed in 1957 and located adjacent to Kirkland Hall. These rooms rent for \$135 per semester. (Effective September 1961 single rooms rent for \$150 per semester.) Single and double rooms in Wesley Hall are also available, at rates that range from \$75 to \$105 per semester. Wesley Hall is on Twenty-first Avenue facing the Joint University Library Building.

Double rooms for graduate women are available in the women's graduate house on Twenty-fourth Avenue, South, near Rand dining hall. These rooms rent for \$85 per semester.

HOUSING FOR FAMILIES

A limited number of apartments are available for married students. Applications may be made at the office of the Dean of Men.

Assignments are made with the understanding that assignees are eligible for occupancy only while enrolled as a student, and that the apartment will be vacated within one week after the occupant ceases to be a student. All residents are requested and expected to give thirty days' notice of intention to vacate. The University reserves the right to require any occupant to vacate the apartment at any time and for any reason, a reasonable notice having been given.

OTHER HOUSING

Suitable living quarters in the city of Nashville are easily available, and students have normally found little difficulty in locating satisfactory accommodations. A list of rooms and apartments for rent near the campus is maintained at the office of the Dean of Men.

UNIVERSITY DINING FACILITIES

The Vanderbilt Hospital cafeteria is conveniently located within the building.

The University's main cafeteria in Rand Hall serves students, faculty, and employees. By the semester, students can board at Rand for approximately \$160 for two meals or \$225 for three meals per day. This constitutes a 20% savings compared with the daily cash prices for meals. Students engaging board by the semester should apply at the office of the Director of Food Services.

The Divinity School refectory serves meals to professional and graduate students, faculty, and staff.

AUTOMOBILES

Students who intend to operate cars on the campus must register them with the traffic secretary. Students are reminded that parking spaces are not available for all cars registered, and are urged to secure off-campus parking during the school year.

PLAN OF INSTRUCTION

The first academic year is divided into two equal semesters. The second, third, and fourth years are divided into three quarters of approximately twelve weeks each.

Individual work on the part of the students is encouraged throughout the four years and definite allotments of time are available each year for that work.

Although there is no sharp demarcation in the curriculum between the laboratory and the clinical courses, the first year and the greater part of the second year are taken up in the study of the medical sciences—*anatomy, biological chemistry, physiology, microbiology, pathology, and pharmacology*. During the third and fourth years the students are responsible for recording the thorough study of patients assigned to them.

The introduction of students to the thorough and complete study of individual patients receives particular emphasis during the third quarter of the second year. During this period all of the clinical departments cooperate in giving the student an introduction to history taking, physical examinations, and laboratory study of patients through a series of lectures, demonstrations, and individual practice on the part of the student.

During the third year the students continue as clinical clerks and are assigned in small groups to the various services in the Hospital where they become junior members of the team studying problems and progress of patients.

During the fourth year the students are assigned as clinical clerks to ambulatory patients in the Outpatient Service and, on some services, to Inpatients as well. Here they have opportunity to see disease in its earlier stages, when more difficult of diagnosis, under conditions of office practice and with opportunities for follow-up examinations and observation over relatively long periods. Thus, the course of disease, the effect of treatment, and the reactions in relation to the patient's home environment can be studied.

Various aspects of the prevention of disease and disability are emphasized throughout the entire medical curriculum. This is accomplished largely through the attitude and practice of the whole faculty. In addition there are courses in preventive medicine and public health in the third year.

An approach in medicine is stressed which recognizes the human aspects of illness and the patient as a person and a member of a family unit. Emphasis is placed on developing within students an attitude toward patients which includes understanding the emotional and environmental forces which affect health and are often significant in the prevention, diagnosis and treatment of illness. To this end each student, during his first year, is assigned a family in the Outpatient Service which he follows throughout his first and second years. This provides for direct observation of the

family in its own environment and of the effect of illness on the family. The student visits his family at stated intervals and receives individual consultation from a medical and a social work adviser. Significant factors in different family situations are shared in class and seminar discussions when students present their cases. Students are given an understanding of the dynamics of the physician-patient relationship and of the responsibilities inherent in this interpersonal relationship.

MILITARY AND DISASTER MEDICINE

Vanderbilt University School of Medicine was one of the original medical schools conducting a program of military and disaster medicine under the Medical Education for National Defense plan. Four lecture hours are designed to present a unified concept of mass casualty management in disaster situations of civilian or military origin, covering the principles of emergency surgery, medicine, and preventive medicine. In addition, aspects of military medicine are emphasized at appropriate places in the various courses.

POSTDOCTORAL COURSES

Courses in individual departments are made available by special arrangement. These courses are under the direction of the Director of Postgraduate Instruction and the head of the Department concerned. Courses may be offered at any time during the year for periods of varying length. Only a limited number of physicians can be admitted to any course. Inquiries should be addressed to Dr. R. H. Kampmeier, Director of Postgraduate Instruction.

Fees for special and intensive courses are decided by the Dean and the Director of Postgraduate Instruction in cooperation with the head of the department in which the instruction is provided.

COURSES TOWARD MASTER AND PH.D. DEGREES

Candidates for the degree of Master of Science or of Doctor of Philosophy may pursue work in the medical sciences given in the Medical School, either in regular courses or in special elective courses, provided such students are accepted by the heads of departments concerned and are registered in the Graduate School of the University. Graduate work in the medical sciences is regulated by the faculty of the Graduate School. Candidates for graduate degrees should apply to the Dean of the Graduate School.

Candidates for the degree of Master of Science in Audiology and Speech may pursue work in these fields in the Bill Wilkerson Hearing and Speech Center and the School of Medicine. Graduate work in this division is regulated by the faculty of the School of Medicine. Candidates should apply to the Registrar of the School of Medicine.

1st YEAR FALL SEMESTER

Schedule of Courses

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00-9:00			Library ¹			
9:00-10:00	Gross Anatomy	Gross Anatomy	Social and Environmental Medicine ²	Gross Anatomy	Gross Anatomy	Gross Anatomy
10:00-11:00						
11:00-12:00				Social and Environmental Medicine		
1:00-2:00			Social and Environmental Medicine ²			
2:00-3:00	Histology and Neurology	Histology and Neurology		Gross Anatomy	Histology and Neurology	
3:00-4:00						
4:00-5:00						

1. One library lecture for entire class the first Wednesday after instruction begins.

2. Two half-hour conferences for each student with Medical and Social Work Advisers respectively and two family visits. Total time per student, 5 hours. Family visit not restricted to Wednesday but may be made at any free time.

3. Seminars beginning September 28, 1960.

1st YEAR SPRING SEMESTER

Schedule of Courses

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00-9:00	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology
9:00-10:00			Biochemistry			Physiology
10:00-11:00	Biochemistry	Physiology	Library ¹	Physiology	Biochemistry	
11:00-12:00			Social and Environmental Medicine ²			
1:00-2:00						
2:00-3:00						
3:00-4:00	Biochemistry	Physiology		Physiology	Biochemistry	
4:00-5:00						

1. Five sessions of ten students each for one hour on successive Wednesdays. Total time per individual student, 2 hours.
 2. Three half-hour conferences with Medical and Social Work Advisers respectively and three family visits per student. Total time per student, 7 hours. Family visits not restricted to Wednesday but may be made at any free time.

Schedule of Courses

2nd YEAR Fall Quarter

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00-9:00						
9:00-10:00	Pathology	Pathology	Microbiology	Microbiology	Pathology	Pathology
10:00-11:00						
11:00-12:00	Microbiology	Pharmacology	Social and Environmental Medicine	Pharmacology	Microbiology	Microbiology
1:00-2:00		$\frac{1}{2}$ class Medical Statistics		$\frac{1}{2}$ class Medical Statistics		
2:00-3:00	Microbiology	$\frac{1}{2}$ class Social and Environmental Medicine ¹	Pathology	$\frac{1}{2}$ class Social and Environmental Medicine ¹	Microbiology	
3:00-4:00						
4:00-5:00						

1. One half-hour consultation with Medical and Social Work Advisers respectively and one family visit per student. Total time per student, 4 hours. Additional time is considered free time.

2nd YEAR WINTER QUARTER

Schedule of Courses

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00-9:00						
9:00-10:00	Pharmacology	Pathology	Pathology	Pathology	Pharmacology	Neurology
10:00-11:00						
11:00-12:00			Pharmacology			
1:00-2:00						
2:00-3:00	Pharmacology	Social and Environmental Medicine ¹	Pharmacology	Microbiology	Pharmacology	
3:00-4:00						
4:00-5:00						

1. Two half-hour conferences with Medical and Social Work Advisers respectively and two family visits per student. Total time per student, 5 hours. Additional time is considered free time.

2nd YEAR SPRING QUARTER

Schedule of Courses

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00-9:00	Introduction to Clin. Med. ¹	Introduction to Clin. Med. Psychology	Introduction to Clin. Med. Psychology	Introduction to Clin. Med. Clinical Pathology	Introduction to Clin. Med. Psychology	Introduction to Clin. Med.
9:00-10:00	Introduction to Clin. Med.	Psychodynamics	Introduction to Clin. Med. Psychology	Introduction to Clin. Med. Clinical Pathology	Introduction to Clin. Med. Psychology	Introduction to Clin. Med.
10:00-11:00	Clinical Pathology	Introduction to Clin. Med.	Psychodynamics	Clinical Pathology	Psychodynamics	
11:00-12:00	Nutrition	Introduction to Clin. Med.	Introduction to Clin. Med.	Obstetrics	Nutrition	Radiology
1:00-2:00	Introduction to Clin. Med.	Obstetrics	Introduction to Clin. Med.	Introduction to Clin. Med.		
2:00-4:00	Clinical Pathology	Social and Environmental Medicine ²	$\frac{1}{2}$ class Physical Diagnosis	Clinical Pathology	$\frac{1}{2}$ class Physical Diagnosis	
4:00-5:00						

1. Introduction to Clinical Medicine includes 10 hours of Social and Environmental Medicine II during last half of the quarter.

2. Two half-hour conferences with Medical and Social Advisers respectively and two family visits per student. Total time per student, 5 hours. Additional time is considered free time.

3rd YEAR FALL, WINTER, SPRING QUARTERS

Schedule of Courses

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<i>Fall</i>	Psychiatry	Pediatrics	Ophthalmology	Medical	Surgery	Radiology
8-9 <i>Wint.</i>	Psychiatry	Pediatrics	Gynecology	Staff Rounds	Surgery	Prev. Med.
<i>Spr.</i>	Psychiatry	Pediatrics	Gynecology		Surgery	Prev. Med.
9:00 to 12:00	Groups Groups Groups	<i>Fall</i> A C B	<i>Winter</i> B A C	<i>Spring</i> C B A	Medical Ward Work Surgical Clinic Work Pediatrics (½ group), Obstetrics (½ group)	
1:00 to 4:00		Surgical Pathology				
4:00-5:00	Obs.-Gyn.	Medicine	Surgery	Pediatrics	Clin. Path.Conf.	

4th YEAR FALL, WINTER, SPRING QUARTERS *Schedule of Courses*

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00-9:00						
9:00-10:00	Fourth Year Class Is Divided Into Three Groups: A, B, and C					
10:00-11:00		Fall	Winter	Spring		
11:00-12:00	Groups	A	C	B	Medicine and Pediatrics, OPD	Cancer (F) Cancer (S)
	Groups	B	A	C	Psychiatry and Gynecology	Medical Juris- prudence (W)
1:00 to 4:00	Groups	C	B	A	Surgery	
4:00-5:00	Obs.-Gyn.	Surgery	Pediatrics	Medicine	Clin. Path.Conf.	


COURSES OF STUDY

NOTE: *Departments are arranged in alphabetical order within two groups—the preclinical departments, Anatomy through Physiology, followed by the clinical departments, Anesthesiology through Surgery. Numbering of preclinical courses coincides with the catalogue of the Graduate School, in which these departments offer the instruction in the medical sciences. Figures in brackets indicate semester hours of credit in the Graduate School.*



Anatomy

- SAM F. CLARK, Ph.D., M.D., *Professor of Anatomy* (Died July 1, 1960)
JAMES W. WARD, Ph.D., M.D., *Professor of Anatomy and Acting Head of the Department*
VIRGIL S. LEQUIRE, M.D., *Associate Professor of Anatomy*
JOHN LANGDON NORRIS, M.D., *Assistant Professor of Anatomy; Investigator, Howard Hughes Medical Institute*
DON L. EYLER, M.D., *Clinical Instructor in Anatomy*
LUKE H. MONTGOMERY, *Research Associate in Anatomy*
ROY RUSH WRIGHT, B.A., *Research Assistant in Anatomy*

 The Department of Anatomy offers work leading to the Ph.D. degree.

321. GROSS ANATOMY. This course is devoted to a systematic dissection of the human body. The instruction is largely individual and the work of the student is made as independent as possible. FALL. [10] *Dr. Ward and Staff.*
322. HISTOLOGY. This course gives the student a familiarity with the normal structure of the principal tissues and organs of the body. Fresh tissues are used wherever possible for the demonstration of normal cellular function, and in analyzing the characteristics of particular cells. FALL. [4] *Dr. Lequire and Staff.*
323. NEUROLOGY. The histological aspect of the nervous system, including the structure of nerve cells, fibers and endings, the histology and pathways of the spinal cord, the structure and connection of cerebrospinal and autonomic nerves and ganglia, and the histology of the organs of special sense. WINTER. [2] *Dr. Ward and Staff.*

324. **ADVANCED NEUROLOGY.** An intensive study of the relations, structure and function of the various parts of the central nervous system is made with the aid of gross specimens and dissections, serial sections of brain stems, experimental demonstrations, and seminars. The lectures are a guide to the laboratory work and present the type of evidence on which the present conceptions of the nervous system are based. WINTER. [2] *Dr. Ward and Staff.*

327. **EXPERIMENTAL METHODS IN NEUROLOGY.** Conferences and research upon special phases of the structure and function of the nervous system. This course is designed to meet the needs of students desiring special training in neurology. Hours and credit by arrangement. *Dr. Ward.*

328. **EXPERIMENTAL METHODS IN HEMATOLOGY.** Research and conferences in the application of the newer methods in the study of blood. Experimental work concerning the origin and function of the different blood cells and their inter-relationships. Hours and credit by arrangement. *Dr. LeQuire.*

329. **EXPERIMENTAL METHODS IN HISTOLOGY.** Research and conferences in special phases of the techniques and their principles of histology. The work would be designed for the particular student's interests and could include general histological methods and special methods such as those of the electron microscope. [1-6] *Dr. Ward and Staff.*

330. **SEMINAR.** SPRING & SUMMER. [1-2] *Staff.*

399. **RESEARCH.** Facilities for research will be provided to adequately prepared students who show special aptitude or who are candidates for advanced degrees. Hours and credit by arrangement. *Dr. Ward and Staff.*

Biochemistry

WILLIAM J. DARBY, M.D., Ph.D., *Professor of Biochemistry and Head of the Department*

FRANK R. BLOOD, Ph.D., *Professor of Biochemistry*

OSCAR TOUSTER, Ph.D., *Professor of Biochemistry*

ANN STONE MINOT, Ph.D., *Professor of Biochemistry, Emeritus*

CHARLES S. ROBINSON, Ph.D., *Professor of Biochemistry, Emeritus*

JOHN G. CONIGLIO, Ph.D., *Associate Professor of Biochemistry*

LEON W. CUNNINGHAM, Ph.D., *Associate Professor of Biochemistry*

GEORGE V. MANN, Sc.D., M.D., *Associate Professor of Biochemistry; Investigator, American Heart Association*

WILLIAM N. PEARSON, Ph.D., *Associate Professor of Biochemistry*

GUILFORD G. RUDOLPH, *Associate Professor of Biochemistry*

STANLEY COHEN, Ph.D., *Assistant Professor of Biochemistry*


JAN VAN EYS, Ph.D., *Assistant Professor of Biochemistry; Investigator, Howard Hughes Medical Institute*

THOMAS F. KELLEY, Ph.D., *Instructor in Biochemistry*

HELEN ELIZABETH FRANK, B.A., *Research Assistant in Biochemistry*

SUSAN HOLROYD SHUMAKER, M.S., *Research Assistant in Biochemistry*

NELTA HYDER WARNOCK, M.A., *Research Assistant in Biochemistry*

 The Department of Biochemistry offers work leading to the Master's and the Ph.D. degrees.

321-322. **BIOCHEMISTRY.** A lecture course which includes a review of physical and organic chemistry as applied to the study of body processes. The chemical aspects of digestion, metabolism, respiration, etc., are discussed. The laboratory accompanying this course requires 16 hours a week for 16 weeks. **SPRING.** [6] *Dr. Darby and Staff.*

323. **SPECIAL PROBLEMS AND EXPERIMENTAL TECHNIQUES.** Open to a limited number of properly qualified students. Admission to course, hours, and credit by arrangement. Among the fields available are (a) advanced work with radioactive isotopes or in lipid metabolism, *Dr. Coniglio*; (b) the synthesis and metabolism of carbohydrates and amino acids, *Dr. Touster*; (c) protein chemistry, *Dr. Cunningham*; (d) metabolic toxicology, *Dr. Blood*; (e) enzymes of metabolism, *Dr. van Eys*; (f) chemical embryology, *Dr. Cohen*; (g) special biochemical preparations, *Staff.* [2-4]

324. **USE OF RADIOACTIVE TRACERS IN METABOLISM.** This course is an introductory one in the application of radioisotopes to the study of metabolism, and is intended for graduate students in biochemistry, biology, physiology, and related fields. Two lectures and one three-hour laboratory per week. Prerequisite: permission of instructor. **FALL.** [2-3] *Dr. Coniglio.*

325. **MICRO-PHYSIOLOGIC TECHNIQUES IN BIOCHEMISTRY.** A course designed to give experience in the techniques of animal experimentation. Lectures, discussions, and demonstrations on care, feeding, injection, and drawing of blood in different animals. Application of micro techniques of mammalian physiology to biochemistry. Lectures and laboratory. Prerequisite a laboratory course in biochemistry. **FALL.** [3] *Dr. Blood.* (Not offered 1960/61.)

326. **BIO-ORGANIC CHEMISTRY.** Lectures and discussion on the isolation, structural chemistry, and synthesis of biochemically important substances and on the relation of structure to biological activity. Prerequisite: an advanced course in organic chemistry or permission of instructor. Two lectures per week. **FALL.** [2] *Dr. Touster.* (Not offered 1960/61.)

327. **SEMINAR IN BIOCHEMICAL LITERATURE.** Admission to course by arrangement. Prerequisite: a course in fundamental biochemistry. Monday at 4 p.m. **FALL & SPRING.** [1] *Staff.*

328. **FUNDAMENTALS OF HUMAN NUTRITION.** This course presents the biochemical and physiologic basis of nutrition with especial emphasis upon the human. Lectures and assigned readings. Two lectures per week (M. F., 11 a.m.). SPRING QUARTER. [2] *Dr. Darby and Staff of the Division of Nutrition.*

329. **CLINICAL BIOCHEMISTRY.** This course considers the application of biochemical principles to the diagnosis of disease and the treatment of patients. Open to third and fourth year students as an elective. *Staff.*

330. **ADVANCED PATHOLOGICAL CHEMISTRY.** Lectures and seminar on recent developments in biochemistry in relation to medicine. Open by arrangement to third and fourth-year students as elective work. [2-4] *Staff.*

331. **FUNDAMENTALS OF BIOCHEMISTRY.** A basic course covering the chemistry and metabolism of carbohydrates, proteins, and lipids, and the action of vitamins, hormones, and enzymes. Prerequisite: a basic undergraduate course in organic chemistry. Two lectures and one three-hour laboratory period. FALL. [3] *Dr. Touster.*

332. **METHODS OF ANALYSIS OF VITAMINS.** A laboratory course designed to present examples of methods of vitamin assays. Laboratory, discussions, and assigned readings. This course may profitably be taken in conjunction with 328. Admission by arrangement. SPRING. [1-2] *Drs. Darby and Pearson.*

333. **PROTEIN CHEMISTRY.** A course describing the physical and chemical methods employed in the study of macro-molecules of biological importance and the relation of protein structure to protein function. FALL. [2] *Dr. Cunningham.*

399. **RESEARCH.** Hours and credit by arrangement. *Staff.*

Microbiology

VICTOR A. NAJJAR, M.D., *Professor of Microbiology and Head of the Department*
SIDNEY P. COLOWICK, Ph.D., *American Cancer Society-Charles Hayden Foundation Professor of Microbiology*

JAMES T. PARK, Ph.D., *Associate Professor of Microbiology*

BURTON M. POGELL, Ph.D., *Assistant Professor of Microbiology*


SIDNEY HARSHMAN, Sc.D., *Instructor in Microbiology*

AKIRA KAJI, Ph.D., *Research Associate in Microbiology*

YOSHIO MATSUSHIMA, Ph.D., *Research Associate in Microbiology*

VERNON H. REYNOLDS, M.D., *Research Associate in Microbiology*

JOHN P. ROBINSON, B.S., *Assistant in Microbiology*

 The Department of Microbiology offers work leading to the M.S. and Ph.D. degrees.

324. MICROBIOLOGY. Lectures and laboratory work. The important bacterial, mycotic, parasitic, and viral infections are considered from the standpoint of etiology, epidemiology, pathogenesis, immunology, and laboratory diagnosis. Fifteen hours of lectures and laboratory a week during the fall quarter; 3 hours a week during the winter quarter of seminars in current basic research in Microbiology at the molecular level including genetics, immunochemistry, and virology. [6] *Staff*.

327. EXPERIMENTAL METHODS IN MICROBIOLOGY. This course will be open to qualified graduate students. Prerequisite: 324. Hours and credit by arrangement. *Staff*.

328. ADVANCED WORK ON THE GENERAL PRINCIPLES OF IMMUNOLOGY. This course consists of studies related in the fundamental principles of immunology. Hours and credit by arrangement. *Staff*.

331. SEMINAR. [1]

399. RESEARCH. Opportunities for research are offered to properly qualified students. Hours and credit by arrangement. *Staff*.

Pathology

JOHN L. SHAPIRO, M.D., *Professor of Pathology and Head of the Department*
ERNEST W. GOODPASTURE, M.D., *Professor of Pathology, Emeritus (Died September 20, 1960)*

FRANK R. BLOOD, Ph.D., *Associate Professor of Clinical Pathology*

WILLIAM A. DEMONBREUN, M.D., *Associate Clinical Professor of Pathology*

FRANK C. WOMACK, M.D., *Associate Clinical Professor of Pathology*

WILLIAM J. CHEATHAM, M.D., *Assistant Professor of Pathology*

ROBERT D. COLLINS, M.D., *Assistant Professor of Pathology*

GEORGE ELLIOTT, D.V.M., *Assistant Professor of Comparative Pathology*

NORMAN ENDE, M.D., *Assistant Professor of Pathology*

JOHN B. THOMISON, M.D., *Assistant Professor of Pathology*

DAVID K. GOTWALD, M.D., *Assistant Clinical Professor of Pathology*

DAVID L. BEAVER, M.D., *Instructor in Pathology (On leave 1960/61)*

ELDON STEVEN DUMMIT, JR., M.D., *Instructor in Pathology*

ASUR GRISALES, M.D., *Instructor in Pathology*

ROBERT HORN, M.D., *Instructor in Pathology*


JOSEPH SEARLE McMURRAY, M.D., *Instructor in Pathology*

ROBERT SOMMER, M.D., *Instructor in Pathology*

THOMAS DELVAUX, M.D., *Clinical Instructor in Pathology*

FRED RYDEN, M.D., *Assistant in Pathology*

HAROLD H. SANDSTEAD, M.D., *Assistant in Pathology*

 No graduate degrees are offered in pathology. Students in other departments should consult their departmental advisers about the acceptability of the courses as minor work.

321. GENERAL AND SPECIAL PATHOLOGY. Various phases of general and special pathology are presented by lectures, demonstrations, discussions, and laboratory work. Both the gross and the microscopic lesions characteristic of various diseases are studied and correlated. The class attends and may assist with post-mortem examinations performed during the year. Seventeen hours of lectures and laboratory work a week during the fall quarter, and ten hours of lectures and laboratory work a week during the winter quarter of the second year. [10] *Dr. Shapiro and Staff.*

22. CLINICAL PATHOLOGICAL CONFERENCES. This is a weekly meeting of the third and fourth-year students and members of the hospital staff at which the clinical aspects and diagnosis of cases are discussed, followed by an exposition and an explanation of the pathological changes that are discovered at autopsy or surgical operation. One hour a week throughout the third and fourth years. *Dr. Shapiro in conjunction with members of the clinical staff.*

399. RESEARCH. Opportunities for research are offered to properly qualified students. Hours and credit by arrangement. *Staff.*

Pharmacology

ALLAN D. BASS, M.D., *Professor of Pharmacology and Head of the Department*

PAUL D. LAMSON, M.D., *Professor of Pharmacology, Emeritus*

MILTON T. BUSH, Ph.D., *Associate Professor of Pharmacology (On leave 1960/61)*

BENJAMIN H. ROBBINS, M.D., *Associate Professor of Pharmacology (Died January 10, 1960)*

MURRAY HEIMBERG, Ph.D., M.D., *Assistant Professor of Pharmacology*

LEON HURWITZ, Ph.D., *Assistant Professor of Pharmacology*

ERWIN J. LANDON, Ph.D., M.D., *Assistant Professor of Pharmacology*

PAUL MAZEL, M.S., *Instructor in Pharmacology*

B. V. RAMA SASTRY, Sc.D., *Instructor in Instructor*

LAWRENCE G. SCHULL, M.D., *Instructor in Pharmacology*


IRA WEINSTEIN, Ph.D., *Instructor in Pharmacology*

BOLTON W. SMITH, M.A., *Research Assistant in Pharmacology*

CATHERINE CHEATHAM SNELL, M.S., *Research Assistant in Pharmacology*

BETTY T. TINSLEY, B.S., *Research Assistant in Pharmacology*

GEORGE WEISS, B.A., *Research Assistant in Pharmacology*

 The Department of Pharmacology offers courses leading to the M.S. and Ph.D. degrees.

321. PHARMACOLOGY. Lectures in which the reaction of the human organism to chemical substances is taken up in a systematic manner, and typical reactions demonstrated by animal experiments. Laboratory exercises in which the student has an opportunity to become familiar with pharmacological techniques. Two lectures a week during the fall quarter, five lectures and fifteen hours of laboratory work a week during the winter quarter of the second year. [8] *Dr. Bass and Staff.*

322. INTRODUCTION TO ENZYMOLOGY AND ITS APPLICATION TO PHARMACOLOGY. Lectures and seminars will be held for students interested in acquiring a knowledge of the biochemical and physicochemical mechanisms involved in drug action. This will include (1) drug-receptor interactions, (2) the biochemical basis of drug therapy, and (3) structure-activity relationships of drugs. Three sessions each week. FALL. Hours by arrangement. [4] *Dr. Bass and Staff.*

323. SPECIAL PROBLEMS AND EXPERIMENTAL TECHNIQUES IN PHARMACOLOGY. Lectures and laboratory covering the application of fundamental concepts of chemistry, physics, and biology to pharmacological theory and practice. Individual courses are offered including: (1) the relationship of chemical structure to pharmacological action, (2) antimetabolites as pharmacological agents, and (3) cancer chemotherapy. Hours by arrangement. [1-3] *Dr. Bass and Staff.*

330. SEMINAR IN PHARMACOLOGY. Admission to course by arrangement. [1] *Staff.*

399. RESEARCH. Experimental and theoretical aspects of the mechanism of the action of chemical substances on cell, tissue and organ function, especially in the following areas: cardiac pharmacology, cancer chemotherapy, antimetabolites as chemotherapeutic agents, metabolic fate of narcotic and tranquilizing drugs, design and synthesis of new molecules as possible chemotherapeutic substances. Hours and credit by arrangement. *Staff.*

Physiology

CHARLES RAWLINSON PARK, M.D., *Professor of Physiology and Head of the Department*


H. C. MENG, Ph.D., M.D., *Associate Professor of Physiology (On leave 1960/61)*

EDUARDO CADENAS, Ph.D., *Assistant Professor of Physiology*

MARGARET HENDERSON, Ph.D., *Assistant Professor of Physiology*

HOWARD E. MORGAN, M.D., *Assistant Professor of Physiology; Investigator, Howard Hughes Medical Institute (On leave 1960/61)*

JANE H. PARK, Ph.D., *Assistant Professor of Physiology*
ROBERT L. POST, M.D., *Assistant Professor of Physiology*
MILDRED STAHLMAN, M.D., *Assistant Professor of Physiology*
HIDEKO KAJI, Ph.D., *Instructor in Physiology*
A. K. SEN, Ph.D., *Instructor in Physiology*
CHARLOTTE HOLLETT, Ph.D., *Research Assistant in Physiology*

 The Department of Physiology offers courses leading to the Ph.D. degree.

321. **PHYSIOLOGY.** This course consists of lectures, conferences, and laboratory work, designed to cover the essentials in physiology for first year medical students. It or its equivalent is also required of all graduate students majoring in physiology. Tuesday, Thursday, and Saturday morning during the second semester. [8] *Dr. Park and Staff.*

322. **PHYSIOLOGICAL TECHNIQUES AND PREPARATIONS.** A course designed for advanced students. Hours and credit by arrangement. *Dr. Park and Staff.*

323. **ADVANCED PHYSIOLOGY.** This course deals with special topics in physiology and consists of laboratory work and conferences. Open to students who have had Course 321 or its equivalent. FALL QUARTER. Hours and credit by arrangement. *Dr. Park and Staff.*

399. **RESEARCH.** Facilities for research can be provided for a limited number of adequately prepared students. Hours and credit by arrangement. *Dr. Park and Staff.*

Anesthesiology

BENJAMIN H. ROBBINS, M.D., *Professor of Anesthesiology* (Died January 10, 1960)

LAWRENCE G. SCHULL, M.D., *Associate Professor of Anesthesiology and Acting Head of the Department*

GEOFFREY BERRY, M.B., Ch.B., *Assistant Professor of Anesthesiology* (On leave 1960/61)

LOUIS BRYAN, M.D., *Assistant Professor of Anesthesiology*

JOANNE L. LINN, M.D., *Assistant Professor of Anesthesiology*

PAUL E. BRADY, M.D., *Instructor in Anesthesiology*

JUSTO B. GALUTIRA, M.D., *Instructor in Anesthesiology*

WILLIAM A. ROYER, M.D., *Instructor in Anesthesiology*

JOHN DAVID THOMAS, M.D., *Instructor in Anesthesiology* (On leave of absence for military service)

FUAT TURKEKUL, M.D., *Instructor in Anesthesiology*

ROBERTO J. VILLARREAL, M.D., *Instructor in Anesthesiology*

LUIS J. MORENO, M.D., *Assistant in Anesthesiology*
MARIA I. MORENO, M.D., *Assistant in Anesthesiology*
RICHARD L. STEELE, M.D., *Assistant in Anesthesiology*

1. ANESTHESIOLOGY. This course includes a series of lectures, demonstrations, and discussions of anesthetic agents. During the summer vacation between the third and fourth years there is opportunity for a small group of students to do more extensive work in clinical anesthesia. Fourth-year students will be assigned in small groups to the anesthesia service where observations of and the administration of anesthetic agents under supervision will be possible.

2. ELECTIVE COURSES. Opportunity for elective work in the laboratory will be available for a small group of students during the fourth year. Hours and credit by arrangement.

Medicine

DAVID E. ROGERS, M.D., *Professor of Medicine and Head of the Department*
RUDOLPH H. KAMPMEIER, M.D., *Professor of Medicine*
ELLIOT V. NEWMAN, M.D., *Joe and Morris Werthan Professor of Experimental Medicine*

ANN STONE MINOT, Ph.D., *Professor of Biochemistry in Medicine, Emeritus*
HUGH JACKSON MORGAN, M.D., *Professor of Medicine, Emeritus*
JOHN B. YOUMANS, M.D., *Professor of Medicine, Emeritus*
SAMUEL S. RIVEN, M.D., C.M., *Clinical Professor of Medicine*
W. DAVID STRAYHORN, M.D., *Clinical Professor of Medicine*
CLARENCE S. THOMAS, M.D., *Clinical Professor of Medicine*
ALBERT WEINSTEIN, M.D., *Clinical Professor of Medicine*
RICHARD FRANCE, M.D., *Associate Professor of Medicine*
ROBERT CARL HARTMANN, M.D., *Associate Professor of Medicine*
GRANT W. LIDDLE, M.D., *Associate Professor of Medicine*
GEORGE R. MENEELY, M.D., *Associate Professor of Medicine*
F. TREMAINE BILLINGS, M.D., *Associate Clinical Professor of Medicine*
THOMAS F. FRIST, M.D., *Associate Clinical Professor of Medicine*
ROBERT A. GOODWIN, M.D., *Associate Clinical Professor of Medicine*
LAURENCE A. GROSSMAN, M.D., *Associate Clinical Professor of Medicine*
J. ALLEN KENNEDY, M.D., *Associate Clinical Professor of Medicine*
ADDISON B. SCOVILLE, JR., M.D., *Associate Clinical Professor of Medicine*
HARRISON J. SHULL, M.D., *Associate Clinical Professor of Medicine*
ROBERT T. TERRY, M.D., *Associate Clinical Professor of Medicine*
THOMAS BOWMAN ZERFOSS, M.D., *Associate Clinical Professor of Medicine*
WILLIAM L. ALSOBROOK, M.D., *Assistant Professor of Medicine*
WILLIAM J. DARBY, M.D., Ph.D., *Assistant Professor of Medicine in Nutrition*
WILLIAM W. LACY, M.D., *Assistant Professor of Medicine*
DAVID H. LAW, M.D., *Assistant Professor of Medicine*
GEORGE V. MANN, Sc.D., M.D., *Assistant Professor of Medicine*

LLOYD H. RAMSEY, M.D., *Assistant Professor of Medicine; Investigator, Howard Hughes Medical Institute*
 WILLIAM D. SALMON, JR., M.D., *Assistant Professor of Medicine*
 BRUCE SINCLAIR-SMITH, M.D., *Assistant Professor of Medicine*
 CRAWFORD W. ADAMS, M.D., *Assistant Clinical Professor of Medicine*
 WILLIAM J. CARD, M.D., *Assistant Clinical Professor of Medicine*
 ORRIE A. COUCH, JR., M.D., *Assistant Clinical Professor of Medicine*
 FREDERIC E. COWDEN, M.D., *Assistant Clinical Professor of Medicine*
 ROBERT M. FINKS, M.D., *Assistant Clinical Professor of Medicine*
 AUBREY B. HARWELL, M.D., *Assistant Clinical Professor of Medicine*
 WILDER WALTON HUBBARD, M.D., *Assistant Clinical Professor of Medicine*
 ALVIN E. KELLER, M.D., *Assistant Clinical Professor of Medicine*
 EDNA S. PENNINGTON, M.D., *Assistant Clinical Professor of Medicine*
 THOMAS GUV PENNINGTON, M.D., *Assistant Clinical Professor of Medicine*
 JAMES N. THOMASSON, M.D., *Assistant Clinical Professor of Medicine*
 CLARENCE C. WOODCOCK, JR., M.D., *Assistant Clinical Professor of Medicine*
 JOHN LANIER WYATT, M.D., *Assistant Clinical Professor of Medicine*
 THOMAS G. ARNOLD, JR., B.S., *Martha Washington Straus-Harry H. Straus Instructor in Biophysics in Medicine*
 CATHERINE COOLIDGE, M.D., *Instructor in Medicine*
 WILLIAM S. COPPAGE, M.D., *Instructor in Medicine*
 ROBERT BARNARD COUCH, M.D., *Instructor in Medicine*
 OSCAR B. CROFFORD, JR., M.D., *Instructor in Medicine*
 DANIEL LYNN DOLAN, M.D., *Instructor in Medicine*
 JOHN M. FLEXNER, M.D., *Instructor in Medicine*
 MAURICE FOX, M.D., *Instructor in Medicine*
 ROBERT M. HEYSSEL, M.D., *Instructor in Medicine*
 THOMAS F. KELLEY, Ph.D., *Instructor in Biochemistry in Medicine*
 M. GLENN KOENIG, M.D., *Instructor in Medicine*
 LONNIE CLIFFORD MCKEE, JR., M.D., *Instructor in Medicine*
 CLIFTON KIRKPATRICK MEADOR, M.D., *Instructor in Medicine*
 JOSEPH M. MERRILL, M.D., *Instructor in Medicine*
 WALTER ELMORE NANCE, M.D., *Instructor in Medicine*
 WALTER PUCKETT, III, M.D., *Instructor in Medicine*
 STEPHEN SCHILLIG, M.D., *Instructor in Medicine*
 JAMES DANIEL SNELL, JR., M.D., *Instructor in Medicine*
 BENJAMIN J. ALPER, M.D., *Clinical Instructor in Medicine*
 ARTHUR RAY ANDERSON, M.D., *Clinical Instructor in Medicine*
 EDWIN B. ANDERSON, M.D., *Clinical Instructor in Medicine*
 H. R. ANDERSON, M.D., *Clinical Instructor in Medicine*
 JAMES J. CALLAWAY, M.D., *Clinical Instructor in Medicine*
 RAYMOND R. CROWE, M.D., *Clinical Instructor in Medicine*
 IRWIN B. ESKIND, M.D., *Clinical Instructor in Medicine*
 E. WILLIAMS EWERS, M.D., *Clinical Instructor in Medicine*
 HOWARD R. FOREMAN, M.D., *Clinical Instructor in Medicine*
 FRED GOLDNER, JR., M.D., *Clinical Instructor in Medicine*
 MILTON GROSSMAN, M.D., *Clinical Instructor in Medicine*
 DAVID W. HAILEY, M.D., *Clinical Instructor in Medicine*
 WALLACE H. HALL, JR., *Clinical Instructor in Medicine*
 THOMAS B. HALTON, M.D., *Clinical Instructor in Medicine*
 JOSIAH B. HIBBITTS, M.D., *Clinical Instructor in Medicine*

JOSEPH E. HURT, M.D., *Clinical Instructor in Medicine*
 IRA T. JOHNSON, M.D., *Clinical Instructor in Medicine*
 HERMAN J. KAPLAN, M.D., *Clinical Instructor in Medicine*
 OTTO MORSE KOCHTITZKY, M.D., *Clinical Instructor in Medicine*
 RALPH W. MASSIE, M.D., *Clinical Instructor in Medicine*
 FRED D. OWNBY, M.D., *Clinical Instructor in Medicine*
 MARVIN J. ROSENBLUM, M.D., *Clinical Instructor in Medicine*
 SOL A. ROSENBLUM, M.D., *Clinical Instructor in Medicine*
 ROBERT M. ROY, M.D., *Clinical Instructor in Medicine*
 HERBERT J. SCHULMAN, M.D., *Clinical Instructor in Medicine*
 ABRAM C. SHMERLING, M.D., *Clinical Instructor in Medicine*
 LUTHER E. SMITH, M.D., *Clinical Instructor in Medicine*
 EDWARD L. TARPLEY, M.D., *Clinical Instructor in Medicine*
 CHARLES B. THORNE, M.D., *Clinical Instructor in Medicine*
 WILLIAM J. TOLLESON, M.D., *Clinical Instructor in Medicine*
 RUSSELL D. WARD, M.D., *Clinical Instructor in Medicine*
 FRED H. ALLEN, M.D., *Assistant in Medicine*
 JAMES E. ANDERSON, JR., M.D., *Assistant in Medicine*
 JACK M. BATSON, M.D., *Assistant in Medicine*
 HERSCHEL L. ESTEP, M.D., *Assistant in Medicine*
 PHILIP WYATT FELTS, M.D., *Assistant in Medicine*
 LOUIS C. HARRIS, JR., M.D., *Assistant in Medicine*
 ROBERT L. NEY, M.D., *Assistant in Medicine*
 HARRY L. PAGE, M.D., *Assistant in Medicine*
 HARRY G. PREUSS, M.D., *Assistant in Medicine*
 HERBERT I. RAPPAPORT, M.D., *Assistant in Medicine*
 WILLIAM DAVID STRAYHORN, III, M.D., *Assistant in Medicine*
 JAMES G. TODD, M.D., *Assistant in Medicine*
 WILLIAM B. WILSON, M.D., *Assistant in Medicine*
 MARION ANN MELLY, B.S., *Research Associate in Medicine*
 RAYMOND L. WEILAND, B.E., *Research Associate in Medicine*
 THOMAS R. BOWEN, B.S., *Research Assistant in Medicine (Biophysics)*
 GEORGE TSUNG-CHI HAHN, M.D., *Research Assistant in Medicine*
 ROBERT H. HANKLA, B.S., *Research Assistant in Medicine (Biophysics)*
 SAM H. LOTT, JR., B.S., *Research Assistant in Medicine (Biophysics)*
 ETHELWYNNE U. MENEELY, *Research Assistant in Medicine*
 JIMMIE C. OATES, M.S., *Research Assistant in Medicine (Biophysics)*
 OVERTON C. PARRENT, M.S., *Research Assistant in Medicine (Biophysics)*
 DANIEL D. PAYNE, M.S., *Research Assistant in Medicine (Biophysics)*
 MAUREEN SMITH, Ph.D., *Research Assistant in Medicine*
 JOHN L. FERGUSON, M.D., *Research Fellow in Medicine*
 DIRCEU VIEIRA SANTOS, M.D., *Research Fellow in Medicine*

1. CLINICAL PATHOLOGY. A series of lectures and laboratory exercises in the microscopic and chemical methods in the diagnosis of disease. Students are trained in the technique of examining urine, blood, sputum, gastric contents, feces, and "puncture fluids." The interpretation of laboratory data is discussed. Eight hours a week during the spring quarter of the second year. *Dr. Hartmann and Staff.*

2. **INTRODUCTION TO CLINICAL MEDICINE.** An integrated course given by members of the Departments of Biochemistry, Medicine, Pediatrics, Radiology, and Surgery. Lectures, demonstrations, and practical experience are designed to introduce students to methods used in examining patients and to the interpretation of data so obtained. This course serves also as a transition from the courses in biochemistry, physiology, and pathology to their application in clinical medicine. The course consists of fourteen lectures or demonstrations and six hours of practical demonstrations weekly during the spring quarter of the second year. *Drs. Kampmeier, Strayborn, and Staff; Dr. Christie (Department of Pediatrics); Dr. Daniel and Staff (Department of Surgery); Dr. Francis (Department of Radiology); and Dr. Blood (Department of Biochemistry).*

3. **WARD WORK.** One third of the third-year class is assigned to the medical wards during each quarter. Here they serve as clinical clerks. In this assignment they become part of the team of resident, assistant resident, intern, attending physician, and chief of service responsible for the diagnostic study and treatment of patients. Bedside instruction is given daily by members of the Staff who are also members of the Faculty. *Dr. Rogers and Staff.*

4A. **MEDICAL OUTPATIENT SERVICE.** The students of the fourth-year class serve in the medical outpatient service, and patients are assigned to them. Histories are recorded and physical examinations are made by the students. Their work is reviewed by members of the staff who act as consultants, see that all patients receive any needed consultations from other departments, and direct the management of the cases. *Drs., Law, Kampmeier, and Staff.*

4B. **MEDICAL OUTPATIENT SERVICE.** During the period of eleven weeks on Medicine the fourth-year students attend demonstration clinics every week in each of the medical specialty clinics. Here they observe methods of dealing with endocrine, metabolic, allergic, cardiac, thoracic, digestive, arthritic, hematologic, and nutritional diseases. *Drs. Law, Kampmeier, and Staff.*

5. **CLINICAL LECTURES AND DEMONSTRATIONS.** Patients are presented by the students to whom they have been assigned. Diagnosis and management are discussed with members of the third and fourth-year classes. One or two hours a week throughout the third and fourth years. *Drs. Rogers, Kempmeier, and Staff.*

6. **ELECTIVES IN MEDICINE:**

Students in the third and fourth years may elect special clinical or research work within any division of the Department of Medicine. Flexible arrangements can be on an individual basis through consultation with the faculty members who will assume responsibilities for supervision and guidance of the student. The following specific electives represent some, but not all, of the possibilities.

a) **ELECTROCARDIOGRAPHY.** A brief course in the principles of electro-

cardiography, consisting of lectures, demonstrations, and discussion, is offered each quarter. Approximately ten fourth-year students can be accepted each term. *Dr. Newman.*

b) **CARDIOVASCULAR DISEASES.** Special elective work in the routine clinical activities and various research problems of the clinical physiology laboratories can be arranged on an individual basis. *Dr. Newman and Staff.*

c) **HEMATOLOGY.** Special elective work may be arranged on an individual basis. *Dr. Hartmann.*

d) **GASTROENTEROLOGY CLINIC.** Special elective work may be arranged on an individual basis. *Drs. Law and Shull.*

e) **ENDOCRINOLOGY AND METABOLISM.** Special elective work may be arranged on an individual basis.

f) **INFECTIOUS DISEASES.** Special elective work may be arranged on an individual basis. *Dr. Rogers.*

DERMATOLOGY

ROBERT N. BUCHANAN, M.D., *Clinical Professor of Dermatology*

FRANK G. WITHERSPOON, M.D., *Assistant Clinical Professor of Dermatology*

JAMES R. HAMILTON, M.D., *Clinical Instructor in Dermatology*

BERNARD J. PASS, M.D., *Clinical Instructor in Dermatology*

1. **DERMATOLOGY.** A course of eleven lectures and demonstrations covering the various groups of skin diseases and some of the dermatological manifestations of general disease. One hour a week during the fall quarter of the third year. *Dr. Buchanan.*

2. **CLINICAL DERMATOLOGY.** During the period of eleven weeks on Medicine the fourth-year students attend demonstration clinics each week in Dermatology, where they have practice under the supervision of the staff in the diagnosis and treatment of the diseases of the skin. *Drs. Buchanan, Witherspoon, and Pass.*

NEUROLOGY

BERTRAM E. SPROFKIN, M.D., *Clinical Professor of Neurology*

ERIC BELL, JR., M.D., *Assistant Clinical Professor of Neurology*

BENNETT M. DERBY, M.D., *Instructor in Neurology*

1. **NEUROLOGY.** Lectures and demonstrations are held in which the commoner neurological conditions are discussed from the point of view of diagnosis and treatment. One hour a week during the fall and winter quarters of the third year. *Dr. Sprofskin.*

2. **CLINICAL NEUROLOGY.** During the period of eleven weeks on Medicine the fourth-year students attend lecture-demonstrations each week. Here emphasis is placed on the diagnosis and treatment of neurological con-

ditions. Students receive also individual instruction when they accompany patients referred to either the General Neurology or the Seizure Clinic. *Drs. Sprofskin and Bell.*

3. ELECTIVES IN NEUROLOGY.

a) CLINICAL NEUROLOGY.

1) Each term a small number of fourth-year students may assist in the General Neurology Clinic and receive further experience in the diagnosis and treatment of neurological disorders. *Dr. Sprofskin.*

2) Instruction in the diagnosis and management of paroxysmal disorders of the central nervous system is available to small groups of fourth-year students in the Seizure Clinic. *Dr. Sprofskin.*

b) EXPERIMENTAL NEUROLOGY. A study of problems related to the anatomy and physiology of the nervous system. *Dr. Sprofskin.*

c) NEUROPATHOLOGY. A study of the special pathology of the nervous system, with its application to clinical problems. Hours and credit by arrangement. *Dr. Sprofskin.*

Obstetrics & Gynecology

FRANK E. WHITACRE, M.D., *Professor of Obstetrics and Gynecology and Acting Head of the Department*

JOHN C. BURCH, M.D., *Professor of Obstetrics and Gynecology*

D. SCOTT BAYER, M.D., *Clinical Professor of Obstetrics and Gynecology*

G. SYDNEY McCLELLAN, M.D., *Clinical Professor of Obstetrics and Gynecology*

DORIS H. ORWIN, Ph.D., *Associate Professor of Physiology in Obstetrics and Gynecology*

WILLARD O. TIRRILL, JR., M.D., *Associate Clinical Professor of Obstetrics and Gynecology*

EDWIN LEA WILLIAMS, M.D., *Associate Clinical Professor of Obstetrics and Gynecology*

JOSEPH D. ANDERSON, M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*

B. KIMBROUGH HIBBETT, III, M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*

C. GORDON PEERMAN, JR., M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*

ROGER B. BURRUS, M.D., *Instructor in Obstetrics and Gynecology*

ROGER H. TOSH, M.D., *Instructor in Obstetrics and Gynecology*

J. ALAN ALEXANDER, M.D., *Clinical Instructor in Obstetrics and Gynecology*
(On leave 1960/61)

RUSSELL T. BIRMINGHAM, M.D., *Clinical Instructor in Obstetrics and Gynecology*

SWAN BRASFIELD BURRUS, M.D., *Clinical Instructor in Clinical Obstetrics and Gynecology*
(On leave 1960/61)

RICHARD O. CANNON, M.D., *Clinical Instructor in Obstetrics and Gynecology*

ROBERT L. CHALFANT, M.D., *Clinical Instructor in Obstetrics and Gynecology*

EVERETT M. CLAYTON, JR., M.D., *Clinical Instructor in Obstetrics and Gynecology*

SAM C. COWAN, JR., M.D., *Clinical Instructor in Obstetrics and Gynecology*

GEORGE B. CRAFTON, M.D., *Clinical Instructor in Obstetrics and Gynecology*

RAPHAEL S. DUKE, M.D., *Clinical Instructor in Obstetrics and Gynecology*

JAMES WOOD ELLIS, M.D., *Clinical Instructor in Obstetrics and Gynecology*

HAMILTON V. GAYDEN, M.D., *Clinical Instructor in Obstetrics and Gynecology*

PAUL A. GREEN, JR., M.D., *Clinical Instructor in Obstetrics and Gynecology*

CHARLIE JOE HOBODY, M.D., *Clinical Instructor in Obstetrics and Gynecology*

CHARLES H. HUDDLESTON, M.D., *Clinical Instructor in Obstetrics and Gynecology*

ORRIN LESTER JONES, JR., *Clinical Instructor in Obstetrics and Gynecology*

ROLAND D. LAMB, M.D., *Clinical Instructor in Gynecology*

HORACE T. LAVELY, JR., M.D., *Clinical Instructor in Gynecology*

JAMES B. MILLIS, M.D., *Clinical Instructor in Obstetrics and Gynecology*

HOMER M. PACE, M.D., *Clinical Instructor in Obstetrics and Gynecology*

ROY W. PARKER, M.D., *Clinical Instructor in Obstetrics and Gynecology*

ROBERT C. PATTERSON, JR., M.D., *Clinical Instructor in Obstetrics*

SIDNEY C. REICHMAN, M.D., *Clinical Instructor in Obstetrics and Gynecology*

HOUSTON SARRATT, M.D., *Clinical Instructor in Obstetrics and Gynecology*

RICHARD C. STUNTZ, M.D., *Clinical Instructor in Obstetrics and Gynecology*

(On leave 1960/61)

WILLIAM D. SUMPTER, JR., M.D., *Clinical Instructor in Obstetrics and Gynecology*

ARTHUR SUTHERLAND, M.D., *Clinical Instructor in Obstetrics and Gynecology*

THOMAS F. WARDER, M.D., *Clinical Instructor in Obstetrics and Gynecology*

PAUL L. WARNER, M.D., *Clinical Instructor in Obstetrics*

THOMAS H. BAKER, JR., M.D., *Assistant in Obstetrics and Gynecology*

DONALD A. GOSS, M.D., *Assistant in Obstetrics and Gynecology*

NEWTON B. GRIFFIN, M.D., *Assistant in Obstetrics and Gynecology*

JAMES W. JOHNSON, M.D., *Assistant in Obstetrics and Gynecology*

1. INTRODUCTION TO OBSTETRICS AND GYNECOLOGY. A series of lectures and demonstrations emphasizing the fundamentals of anatomy and physiology concerned with reproduction in the female. This course is presented as the groundwork for clinical obstetrics and gynecology. Two hours a week during the spring quarter of the second year. *Dr. Whitacre and Staff.*

2. OBSTETRICS. A series of lectures and discussions during the third year on the treatment of abnormal labor as well as the pathology of pregnancy. One hour a week during fall, winter, and spring quarters. *Dr. Whitacre and Staff.*

3. CLINICAL OBSTETRICS. During one half of the quarter the students study the patients on the obstetrical wards. During this period students are required to serve as clinical clerks to the obstetrical patients in the Hospital and take part in their delivery under supervision of the staff. They also have daily ward rounds with various members of the visiting staff, where cases are discussed and demonstrations on the manikin are carried out. All students are required to have assisted in a specified number of deliveries in the Hospital before graduation. Approximately eighteen

hours a week during half of quarter of the third year, exclusive of deliveries.
Dr. Whitacre and Staff.

4. CLINICAL OBSTETRICS AND GYNECOLOGY. A course of clinical lectures and demonstrations on the obstetrical and gynecological material of the Hospital will be given to third-year students. One hour a week during three quarters of the third year. *Dr. Whitacre and Staff.*

5. GYNECOLOGY. A course of lectures, recitations, and assigned reading will be given to third-year students. In this course the more important topics of gynecology are covered. One hour a week during the winter and spring quarters of the third year. *Dr. Burch and Staff.*

6. CLINICAL GYNECOLOGY. The fourth-year students are assigned to all gynecology patients who come to the outpatient department for service. The student assigned to a particular case then follows that case as long as is necessary in the gynecology clinic or other appropriate clinics. In addition to this, there is a series of 40 one-hour teaching sessions held for one-fourth of the class at a time on clinical gynecological subjects in the outpatient department. Special emphasis is placed on diagnosis, and an attempt is made to train the student in those phases of the subject with which the practitioner of medicine should be familiar. Each student get approximately 100 hours of instruction per year on gynecology patients.
Dr. Burch and Staff.

7. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. A series of laboratory exercises, in which the gross and microscopic characteristics of the more important obstetrical and gynecological conditions are demonstrated. Twenty-four hours of instruction are given to each fourth-year student during the year. *Dr. Parker and Staff.*

8. ELECTIVE COURSES. Opportunity for the investigation of special gynecological and obstetrical problems is offered to several students during the year. Emphasis is placed on the project type of work. Hours and credit by arrangement. *Staff.*

Ophthalmology

GEORGE W. BOUNDS, M.D., *Assistant Clinical Professor of Ophthalmology and Acting Head of the Division*

HENRY CARROLL SMITH, M.D., *Clinical Professor of Ophthalmology*

FOWLER HOLLABAUGH, M.D., *Associate Clinical Professor of Ophthalmology*

KATE SAVAGE ZERFOSS, M.D., *Associate Clinical Professor of Ophthalmology*

G. ALLEN LAWRENCE, M.D., *Assistant Clinical Professor of Ophthalmology*

JOHN BOND, M.D., *Instructor in Ophthalmology*

ERNESTO M. CUBE, M.D., *Instructor in Ophthalmology*

L. ROWE DRIVER, M.D., *Clinical Instructor in Ophthalmology*
 PHILIP L. LYLE, M.D., *Clinical Instructor in Ophthalmology*
 RALPH RICE, M.D., *Clinical Instructor in Ophthalmology*
 FRED A. ROWE, M.D., *Clinical Instructor in Ophthalmology*
 THOMAS R. SAWYER, M.D., *Clinical Instructor in Ophthalmology*
 LOUIS POWELL, M.D., *Assistant in Ophthalmology*
 SPENCER P. THORNTON, M.D., *Assistant in Ophthalmology*

I. OPTHALMOLOGY. A course of lectures is given on the diseases of the eye, both local and in association with systemic conditions, and on the various causes of disturbed vision. The physiology and anatomy of the eye are reviewed briefly. One hour a week during the fall quarter of the third year. Instruction to students continues on the wards and in the outpatient service during both the third and fourth years. *Dr. Bounds and Staff.*

Pediatrics

AMOS CHRISTIE, M.D., *Professor of Pediatrics and Head of the Department*
 O. RANDOLPH BATSON, M.D., *Professor of Pediatrics*
 JAMES C. OVERALL, M.D., *Clinical Professor of Pediatrics*
 WILLIAM D. DONALD, M.D., *Associate Professor of Pediatrics*
 JOE M. STRAYHORN, M.D., *Associate Clinical Professor of Pediatrics*
 WILLIAM O. VAUGHAN, M.D., *Associate Clinical Professor of Pediatrics*
 ERNEST E. MCCOY, M.D., *Assistant Professor of Pediatrics*
 MILDRED STAHLMAN, M.D., *Assistant Professor of Pediatrics*
 LUTHER A. BEAZLEY, M.D., *Assistant Clinical Professor of Pediatrics*
 HEARN G. BRADLEY, M.D., *Assistant Clinical Professor of Pediatrics*
 T. FORT BRIDGES, M.D., *Assistant Clinical Professor of Pediatrics*
 HARRY M. ESTES, M.D., *Assistant Clinical Professor of Pediatrics*
 DAN S. SANDERS, JR., M.D., *Assistant Clinical Professor of Pediatrics*
 CHARLES GORDON RENNICK SELL, M.B., B. Chiv., *Assistant Clinical Professor of Pediatrics*
 WILLIAM BROWN WADLINGTON, M.D., *Assistant Clinical Professor of Pediatrics*
 ETHEL WALKER, M.D., *Assistant Clinical Professor of Pediatrics*
 THOMAS S. WEAVER, M.D., *Assistant Clinical Professor of Pediatrics*
 ERLE E. WILKINSON, M.D., *Assistant Clinical Professor of Pediatrics*
 ERIC MARTIN CHAZEN, M.D., *Instructor in Pediatrics*
 WILLIAM FLEET, M.D., *Instructor in Pediatrics (On leave 1960/61)*
 ROBERT C. FRANKS, M.D., *Instructor in Pediatrics*
 ROBERT E. MERRILL, M.D., *Instructor in Pediatrics*
 MARGARETTA E. PATTERSON, M.D., *Instructor in Pediatrics*
 ROBERT SANDERS, M.D., *Instructor in Pediatrics*
 SARAH H. SELL, M.D., *Instructor in Pediatrics*

EUGENE L. BISHOP, M.D., *Clinical Instructor in Pediatrics*
 LINDSAY K. BISHOP, M.D., *Clinical Instructor in Pediatrics*
 SAM W. CARNEY, JR., M.D., *Clinical Instructor in Pediatrics*
 NORMAN M. CASSELL, M.D., *Clinical Instructor in Pediatrics*
 ISABELLA COLLINS, M.D., *Clinical Instructor in Pediatrics*
 WILLIAM M. DOAK, M.D., *Clinical Instructor in Pediatrics*
 RAY L. DUBUISSON, M.D., *Clinical Instructor in Pediatrics*
 PHILIP C. ELLIOTT, M.D., *Clinical Instructor in Pediatrics*
 JOHN P. FIELDS, M.D., *Clinical Instructor in Pediatrics*
 LEONARD J. KOENIG, M.D., *Clinical Instructor in Pediatrics*
 SOL L. LOWENSTEIN, M.D., *Clinical Instructor in Pediatrics*
 DEWEY G. NEMEC, M.D., *Clinical Instructor in Pediatrics*
 JACK TURNER SWAN, M.D., *Clinical Instructor in Pediatrics*
 RICHARD P. TABER, M.D., *Clinical Instructor in Pediatrics*
 THOMAS B. ZERFOSS, JR., *Clinical Instructor in Pediatrics*
 SAMUEL T. HADDOCK, M.D., *Assistant in Pediatrics*
 GORDON HOLLINS, M.D., *Assistant in Pediatrics*
 ERON B. INGLE, M.D., *Assistant in Pediatrics*
 DAVID L. SILBER, JR., *Assistant in Pediatrics*

1. LECTURES AND DEMONSTRATIONS. The prenatal period, the newborn child, mental and physical growth and development, the nutrition of infants and children, and the prevention of the abnormal are discussed. Especial attention is given to the normal child as a basis for the study of the abnormal, or diseases of children. Communicable diseases are discussed as well as some coverage of the spectrum of diseases seen in the pediatric age group. One hour a week during the fall, winter and spring quarters of the third year. *Dr. Christie and Staff.*

2. WARD WORK. One sixth of the third-year class is assigned as clinical clerks to the pediatric wards during one half of each quarter. Bedside instruction is given and patients are studied, emphasis being laid on the structure and function of the normal child. Physical diagnosis and variations from the normal and their prevention are considered. Eighteen hours a week during half of one quarter of the third year. *Drs. Christie, Batson, and Staff.*

3. CLINICAL DEMONSTRATIONS. The more important phases of pediatrics, including the acute infectious diseases of childhood, are demonstrated and discussed in an amphitheater clinic. Patients from the wards and from the outpatient service are presented. One hour a week during the fall, winter, and spring quarters of the third and fourth years. *Dr. Christie and Staff.*

4. PEDIATRIC OUTPATIENT SERVICE. One sixth of the fourth-year class is assigned to the pediatric outpatient service for six weeks. Patients, including well babies in a special clinic, are assigned to students, who record histories, make physical examinations, and carry out diagnostic and immunization procedures. Diagnosis and treatment are considered.

Students rotate through the special Pediatric Clinics—Allergy Clinic, Seizure Clinic, Cardiac Clinic, Well-Baby Clinic, Metabolic Clinic, and Family Clinic. *Dr. Christie and Staff.*

5. Each student is required to prepare a pediatric subject for presentation in seminar form to his classmates.

Preventive Medicine & Public Health

ROBERT W. QUINN, M.D., C.M., *Professor of Preventive and Social Medicine and Head of the Department*

LOUIS D. ZEIDBERG, M.D., M.P.H., *Professor of Epidemiology*

ALVIN E. KELLER, M.D., *Clinical Professor of Preventive Medicine and Public Health*

R. H. HUTCHESON, M.D., M.P.H., *Associate Clinical Professor of Preventive Medicine and Public Health*

RICHARD O. CANNON, M.D., *Assistant Professor of Hospital Administration*

ROBERT M. FOOTE, M.D., *Assistant Clinical Professor of Preventive Medicine and Public Health*

ROYDEN S. GASS, M.D., C.M., *Assistant Clinical Professor of Preventive Medicine and Public Health*

CARL L. SEBELIUS, D.D.S., M.P.H., *Assistant Clinical Professor of Dental Health*

C. B. TUCKER, M.D., *Assistant Clinical Professor of Preventive Medicine and Public Health*

W. CARTER WILLIAMS, M.D., *Assistant Clinical Professor of Preventive Medicine and Public Health*

THOMAS BOWMAN ZERFOSS, M.D., *Assistant Clinical Professor of Preventive Medicine and Public Health*

JULIAN R. FLEMING, M.S., *Clinical Instructor in Sanitation*

JAMES E. GOLDSBERRY, M.D., *Clinical Instructor in Preventive Medicine and Public Health*

BENJAMIN F. GUNTER, D.D.S., M.P.H., *Clinical Instructor in Dental Health*

JOHN HEINTZELMAN, M.D., *Clinical Instructor in Preventive Medicine and Public Health*

WILDER WALTON HUBBARD, M.D., *Clinical Instructor in Preventive Medicine and Public Health*

CURTIS P. McCAMMON, M.D., M.P.H., *Clinical Instructor in Preventive Medicine and Public Health*

H. VIRGINIA SHATTUCK, M.A., *Instructor in Public Health Nursing*

RUTH E. SPRUANCE, M.S. in S.W., *Instructor in Medical Social Service*

ANNE SWEENEY, M.S. in S.W., *Instructor in Medical Social Service*

RAYMOND R. CROWE, M.D., *Clinical Instructor in Preventive Medicine and Public Health*

RAYE OZMENT, B.S.N., *Research Assistant in Preventive Medicine and Public Health*

Courses of instruction for undergraduates are provided in preventive medicine and public health practice, social and environmental medicine, medical jurisprudence, elective work in research and biostatistics.

PREVENTIVE MEDICINE: PRINCIPLES OF PUBLIC HEALTH AND EPIDEMIOLOGY. A course of lectures intended to provide the student with the preventive point of view in the practice of medicine, to make him aware of the major health problems and of the changing nature of major health problems, and to acquaint him with the organized forces working for the advancement of public health. The following subjects are among those considered: etiology, modes of transmission and methods of prevention and control of communicable diseases; vital statistics; maternal and infant hygiene; the venereal disease problem; the more common occupational diseases; civilian defense and disaster control; school hygiene; principles of housing; water supplies and sewage disposal. Clinical preventive medicine is emphasized in relation to cardiovascular diseases, diabetes, cancer, and the problems of geriatrics are presented. Stress is placed on principles involved in public health administration practice in relation to the practitioner of medicine. One lecture each week during the winter and spring quarters of the third year. *Drs. Quinn, Zeidberg, Keller, Mr. Bridgforth, and Staff.*

PREVENTIVE MEDICINE: SOCIAL AND ENVIRONMENTAL MEDICINE I. An interdepartmental course designed to introduce the student to the human organism as a structural, functional, and social being; to give the student an understanding of the nature of growth and development, of human behavior and adaptation, of personality development, the role of the individual in the family and the role of the family. Extends throughout the four years of the medical course. The Departments of Psychiatry and Preventive Medicine and members of the Division of Medical Social Service holding faculty appointments conduct the major part of the course during the first year. Lectures and seminars are combined with the assignment of the student to a family selected mainly from the well-baby, prenatal, and other clinics, which he will follow during the first two years of his medical studies. These families which are enrolled in the family clinic participate in the family care program which is designed for teaching students the broad concepts of preventive medicine and comprehensive medical care. In addition to the lectures and seminars, the students have regularly scheduled conferences with their medical and social work consultants alternately every three weeks and make a family visit at approximately six-week intervals. Members of the families, when patients in the outpatient or inpatient services, are seen when possible by the students. One hour lecture and one hour seminar throughout the first year, approximately thirty-six hours. *Dr. Orr (Department of Psychiatry); Dr. Quinn and Staff.*

PREVENTIVE MEDICINE: SOCIAL AND ENVIRONMENTAL MEDICINE II. A continuation of Social and Environmental Medicine in the second year designed to acquaint the student with the social and economic as well as physical and emotional effects of illness on the patient, his family, and the community. In this course the chronic illnesses of rheumatic fever and

tuberculosis are considered as examples of diseases which have a profound physical, emotional, economic, and social effect on the patient and his family. Patients are presented to the class from a broad point of view employing epidemiologic, social, economic, emotional, preventive, family, and community aspects. The student is introduced to community agencies that offer help to patients and their families. Families assigned during the first year are visited at regular intervals throughout the second year and whenever a member of a student's family visits the family clinic the student attends when possible. One hour weekly during the fall quarter and twice weekly for five weeks during the spring quarter. *Drs. Quinn, Zeidberg, and Staff.*

PREVENTIVE MEDICINE: SOCIAL AND ENVIRONMENTAL MEDICINE III AND IV. The family care plan: Families currently assigned to first and second-year students attend the family clinic regularly. This clinic operates in cooperation with the Department of Pediatrics and is staffed by representatives of the Departments of Pediatrics, Psychiatry, Preventive Medicine, Social Service, and Nursing. Third-year students during their assignment to Obstetrics and fourth-year students during their assignment to Pediatrics serve in this clinic, examine members of the family, and participate in the case-conference seminars at the beginning of each session. On the first visit to the clinic complete histories and physical examinations are performed on each of the family members and routine laboratory tests are done. Periodic visits by each family member are scheduled but visits to the clinic may be made whenever necessary. The emphasis is on preventive medicine and a comprehensive point of view. It is planned that when acute, home-confining illness occurs or chronic illness is present which requires medical observation or care, fourth-year students during their assignment to Pediatrics will be responsible for making house calls in the company of a house officer from Pediatrics for the purpose of diagnosing, treating, and following the course of illness. The student will attempt to manage the problem according to his best judgment but will be under the supervision of the accompanying house officer. The staff of the clinic is responsible for checking students and is available for consultation. Families who offer good teaching material or who have difficult problems are presented at case-conference seminars after each clinic. *Drs. Quinn and Zeidberg; Drs. Christie and Woodruff (Department of Pediatrics); and representatives from other clinical departments and nursing and social services.*

Dr. Quinn attends medical rounds each week with the attending physician on the medical wards, at which time he acts as a consultant to emphasize the epidemiologic, socio-economic, and preventive aspects of patients and their illnesses.

MEDICAL JURISPRUDENCE. This course includes medical evidence and testimony; expert testimony; rights of medical witnesses; dying declarations; medicolegal post-mortem examinations; criminal acts determined by medical knowledge; malpractice and the legal relation of physicians to patients and the public. Some consideration is given also to the state law in its relation to public health operations. One hour a week during

the winter quarter of the fourth year. *Paul H. Sanders and Associates (School of Law)*.

5. **ELECTIVE WORK.** The participation of students will be welcomed in investigative work carried on by the members of the Department.

BIOSTATISTICS

EDWIN B. BRIDGFORTH, B.A., *Assistant Professor of Biostatistics*

CHARLES F. FEDERSPIEL, Ph.D., *Assistant Professor of Biostatistics*

CON O. T. BALL, *Research Associate in Biostatistics*

A course in statistics is given for medical students, and a more extended course for students in the biological sciences. Consultation is provided in design of experiments and in analysis. A non-degree training program in biometry is offered, involving apprenticeship activities, critiques of the literature, and limited projects.

1. **MEDICAL STATISTICS.** Designed to acquaint the student with the elements of statistical reasoning as applied to medical problems. Topics covered include: formulation of hypotheses; design of clinical and laboratory experiments; methods of collection and tabulation of data; analysis-of-variance techniques and nonparametric methods, methodology of short-and long-term medical studies; evaluation and use of vital statistics data. The course is organized around the presentation of examples from the literature. Three hours per week during the fall quarter of the second year. *Mr. Bridgforth and Dr. Federspiel.*

321. **BIOMETRY.** Discussion of the analysis of data arising from laboratory experimentation in the biological and medical sciences. Emphasis is placed on general biological models and inference based on analysis of variance techniques. Experimental design and concepts involved in the efficient planning of experiments used in biological research are included. **SPRING.** [3] *Dr. Federspiel and Mr. Bridgforth.*

Psychiatry

WILLIAM F. ORR, M.D., *Professor of Psychiatry and Head of the Department*

FRANK H. LUTON, M.D., *Professor of Psychiatry*

JAMES W. WARD, Ph.D., M.D., *Associate Professor of Anatomy in Psychiatry*

JOSEPH J. BAKER, M.D., *Associate Clinical Professor of Psychiatry*

OTTO BILLIG, M.D., *Associate Clinical Professor of Psychiatry*

VIRGINIA KIRK, Ph.D., *Associate Clinical Professor of Clinical Psychology*

ROBERT W. ADAMS, JR., M.D., *Assistant Professor of Psychiatry*

DOUGLAS POWERS, M.D., *Assistant Professor of Psychiatry*

MARY RATTERMAN, B.A., *Assistant Professor of Psychiatric Social Service*

WARREN W. WEBB, Ph.D., *Assistant Professor of Clinical Psychology*
BASIL T. BENNETT, M.D., *Assistant Clinical Professor of Psychiatry*
H. JAMES CRECRAFT, M.D., *Assistant Clinical Professor of Psychiatry*
ALBERT R. LAWSON, M.D., *Assistant Clinical Professor of Psychiatry*
CHARLES B. SMITH, M.D., *Assistant Clinical Professor of Psychiatry*
FRANK W. STEVENS, M.D., *Assistant Clinical Professor of Psychiatry*
HELEN MARGARET BROWNING, M.S. in S.W., *Instructor in Psychiatric Social Work*

PETER L. DERUITER, M.D., *Instructor in Psychiatry*
MIRIAM McHANEY, *Instructor in Psychiatric Social Work*
ABNER R. OVERDEER, M.S., *Instructor in Clinical Psychology*
JANICE ELAINE RICKETSON, *Instructor in Psychiatric Social Work*
WILLARD SEGERSON, M.D., *Instructor in Psychiatry*
PATRICIA H. SHARPLEY, M.D., *Instructor in Psychiatry*
LAVERGNE WILLIAMS, M.S. in S.W., *Instructor in Psychiatric Social Work*
ERIC BELL, JR., M.D., *Clinical Instructor in Psychiatry*
HENRY B. BRACKIN, JR., M.D., *Clinical Instructor in Psychiatry*
ROBERT M. FOOTE, M.D., *Clinical Instructor in Psychiatry*
MAURICE HYMAN, M.D., *Clinical Instructor in Psychiatry*
LOUIS SAMPSON, M.D., *Clinical Instructor in Psychiatry*
ROBERT B. SIVLEY, Ph.D., *Clinical Instructor in Clinical Psychology*
GEORGE WADSWORTH, M.D., *Clinical Instructor in Psychiatry*
A. LAWRENCE WHITE, M.D., *Clinical Instructor in Psychiatry*
HARVEY W. ANDERSON, M.D., *Assistant in Psychiatry*
MURRAY FELDBERG, M.D., *Assistant in Psychiatry*
JAMES GAMMILL, M.D., *Assistant in Psychiatry*

1. FIRST-YEAR PSYCHIATRY. (Included in Social and Environmental Medicine I, Department of Preventive Medicine and Public Health.)

322. PSYCHODYNAMICS. The purpose of this course is to acquaint the student with the inner forces at the disposal of each person in his adjustment to past as well as present experience. By this means a basis for understanding normal personality and psychopathological phenomena may be outlined. Three hours a week during the spring quarter of the second year. *Drs. Orr, Billig and Staff.*

3. CLINICAL PSYCHIATRY I. The subject is presented in a series of lectures in which the commoner psychoses, neuroses, and the personality forces and defenses in physical disease are discussed. Clinical material is used for illustration. The principles of prevention as applied to mental diseases are emphasized. One hour a week during the fall, winter, and spring quarters of the third year. *Drs. Luton, Billig, Adams, and Smith.*

4. PSYCHOSOMATIC SEMINARS. Small group meetings are held in which the personality factors of patients with demonstrable disease on Medicine, Surgery, Pediatrics, and Gynecology are discussed. During the third year. *Dr. Orr and Staff.*

5. INSTITUTIONAL PSYCHIATRY. Fourth-year students are assigned for ward work in the treatment building at Central State Hospital. There they work

intensively with the emotionally disturbed patient, become intimately involved in the complex relationships which exist in the family disturbance related to prolonged hospitalization. The placement gives them an opportunity to observe firsthand the effect of various therapies in the disturbed patient and to become an active member of the ward psychiatric team. Five weeks in the fourth year. *Drs. Orr, Luton, and Staff.*

6. OUTPATIENT PSYCHIATRY. Here the students are presented the methods of examination required in the study of psychiatric patients and are given instruction in the diagnosis and treatment of outpatient psychiatric conditions. Selected students may continue in brief supervised psychotherapy with their patients. Twenty-four hours during fourth year. *Dr. Billig and Staff.*

7. SEMINAR IN CLINICAL PSYCHOLOGY. Here the student becomes acquainted with some of the methods of clinical psychological examination. Emphasis is placed on the projective techniques. Eight hours during third year. *Dr. Kirk.*

8. ELECTIVES IN PSYCHIATRY

- a) MAN AND HIS WORKS. This course is open to selected fourth-year students interested in the effects of culture, past and present, upon man and the forces and stresses that have produced the culture. Twenty hours during spring quarter.
- b) GROUP THERAPY. Here selected fourth-year students will have an opportunity to have experience under supervision in group therapy with psychotic patients. Twelve hours.
- c) RESEARCH. Various programs are available to individual students according to their interests. Time by arrangement.

HUMAN BEHAVIOR

STEPHEN C. CAPPANNARI, Ph.D., *Associate Professor of Human Behavior and Head of the Division*

EDWARD L. McDILL, Ph.D., *Assistant Professor of Human Behavior*

JOHN PATE, Ed.D., *Assistant Professor of Human Behavior*

EUGENE A. WEINSTEIN, Ph.D., *Assistant Professor of Human Behavior*

This Division utilizes data from the fields of Anthropology, Genetics, Social Psychology and Sociology in the teaching of medical students and in research in those areas which relate human behavior and health

Radiology

HERBERT C. FRANCIS, M.D., *Professor of Radiology and Head of the Department*

C. C. McCLURE, M.D., *Clinical Professor of Radiology, Emeritus*

GRANVILLE W. HUDSON, M.D., *Associate Professor of Radiology*
 JOSEPH HUNTER ALLEN, JR., M.D., *Assistant Professor of Radiology*
 JOHN BEVERIDGE, M.D., *Assistant Clinical Professor of Radiology*
 MINYARD D. INGRAM, M.D., *Assistant Clinical Professor of Radiology*
 JOSEPH M. IVIE, M.D., *Assistant Clinical Professor of Radiology*
 BEN R. MAYES, M.D., *Assistant Clinical Professor of Radiology*
 DAVID E. SHERMAN, M.D., *Assistant Clinical Professor of Radiology*
 DAVID D. PAULUS, JR., M.D., *Instructor in Radiology*
 W. FAXON PAYNE, M.D., *Instructor in Radiology*
 JOSEPH D. STOKES, M.D., *Instructor in Radiology*
 CLIFTON E. GREER, M.D., *Clinical Instructor in Radiology*
 WILLIAM M. HAMILTON, M.D., *Clinical Instructor in Radiology*
 EDMUND B. BRANTLY, M.D., *Assistant in Radiology*
 WILLIAM H. HILL, M.D., *Assistant in Radiology*

1. ROENTGENOLOGY: INTRODUCTION TO CLINICAL MEDICINE. An integrated course given by Departments of Biochemistry, Medicine, Pediatrics, Surgery, and Radiology. Second-year class has three hours devoted to normal X-ray anatomy and its normal variations. Close correlation with physical diagnosis program is maintained and serves as introduction to advantages and limitations of X-ray examination applied to clinical medicine. Three hours a week in the spring quarter of the second year. *Dr. Francis and Staff.*

2. RADIOLOGY, I. For fourth-year students. The section of the class assigned to Medicine is divided into two groups. Each group has a one-hour class in Radiology two days per week for one half of this period. Diagnostic roentgenology and some radiation therapy are discussed. *Staff.*

3. RADIOLOGY, II. For third-year students. Lectures and demonstrations with discussions of radiation hazards, radiographic diagnosis, and some therapy clinics. One hour per week during spring quarter. *Staff.*

NOTE: *Special arrangements can be made in the Department of students interested in X-ray technique on research work.*

Surgery

H. WILLIAM SCOTT, JR., M.D., *Professor of Surgery and Head of the Department*
 BARTON McSWAIN, M.D., *Professor of Surgery*
 ROLLIN A. DANIEL, JR., M.D., *Clinical Professor of Surgery*
 LEONARD W. EDWARDS, M.D., *Clinical Professor of Surgery, Emeritus*
 BEVERLY DOUGLAS, M.D., D.Sc., *Clinical Professor of Surgery, Emeritus*
 WALTER G. GOBBEL, JR., M.D., *Associate Professor of Surgery*
 BENJAMIN F. BYRD, JR., M.D., *Associate Clinical Professor of Surgery*

JAMES A. KIRTLEY, JR., M.D., *Associate Clinical Professor of Surgery*
 RALPH M. LARSEN, M.D., *Associate Clinical Professor of Surgery*
 DOUGLAS H. RIDDELL, M.D., *Associate Clinical Professor of Surgery*
 DAUGH W. SMITH, M.D., *Associate Clinical Professor of Surgery*
 HAROLD A. COLLINS, M.D., *Assistant Professor of Surgery*
 JOHN H. FOSTER, M.D., *Assistant Professor of Surgery*
 JOHN L. SAWYERS, M.D., *Assistant Professor of Surgery*
 HARRISON H. SHOULDERS, JR., M.D., *Assistant Professor of Surgery*
 SAM E. STEPHENSON, JR., M.D., *Assistant Professor of Surgery*
 EDMUND W. BENZ, M.D., *Assistant Clinical Professor of Surgery*
 CLOYCE F. BRADLEY, M.D., *Assistant Clinical Professor of Surgery*
 WILLIAM R. CATE, JR., M.D., *Assistant Clinical Professor of Surgery* (Died
 August 2, 1960)
 WILLIAM ANDREW DALE, M.D., *Assistant Clinical Professor of Surgery*
 WALTER L. DIVELEY, M.D., *Assistant Clinical Professor of Surgery*
 JAMES C. GARDNER, M.D., *Assistant Clinical Professor of Surgery*
 J. LYNWOOD HERRINGTON, JR., M.D., *Assistant Clinical Professor of Surgery*
 GEORGE W. HOLCOMB, M.D., *Assistant Clinical Professor of Surgery*
 JAMES ANDREW MAYER, M.D., *Assistant Clinical Professor of Surgery*
 ROBERT L. MCCrackEN, M.D., *Assistant Clinical Professor of Surgery*
 OSCAR NOEL, M.D., *Assistant Clinical Professor of Surgery*
 GREER RICKETSON, M.D., *Assistant Clinical Professor of Surgery*
 LOUIS ROSENFELD, M.D., *Assistant Clinical Professor of Surgery*
 ROBERT N. SADLER, M.D., *Assistant Clinical Professor of Surgery*
 NATHANIEL SEHORN SHOFNER, M.D., *Assistant Clinical Professor of Surgery*
 CHARLES C. TRABUE, M.D., *Assistant Clinical Professor of Surgery*
 BERNARD M. WEINSTEIN, M.D., *Assistant Clinical Professor of Surgery*
 MARY FAITH ORR, M.A., *Instructor in Oncology*
 JAMES R. HEADRICK, M.D., *Instructor in Surgery*
 DUNCAN A. KILLEN, M.D., *Instructor in Surgery*
 ROBERT W. YOUNGBLOOD, M.D., *Instructor in Surgery*
 STANLEY BERNARD, M.D., *Clinical Instructor in Surgery*
 GEORGE DUNCAN, M.D., *Clinical Instructor in Surgery*
 WILLIAM H. EDWARDS, M.D., *Clinical Instructor in Surgery*
 PARKER D. ELROD, M.D., *Clinical Instructor in Surgery*
 JOHN L. FARRINGER, JR., M.D., *Clinical Instructor in Surgery*
 SAM YOUNG GARRETT, M.D., *Clinical Instructor in Surgery*
 CARL N. GESSLER, M.D., *Clinical Instructor in Surgery*
 HERSCHEL A. GRAVES, JR., M.D., *Clinical Instructor in Surgery*
 ROY G. HAMMONDS, M.D., *Clinical Instructor in Surgery*
 JACKSON HARRIS, M.D., *Clinical Instructor in Surgery*
 MALCOLM G. LEWIS, M.D., *Clinical Instructor in Surgery*
 JACKSON P. LOWE, M.D., *Clinical Instructor in Surgery*
 JERE W. LOWE, M.D., *Clinical Instructor in Surgery*
 M. CHARLES McMURRAY, M.D., *Clinical Instructor in Surgery*
 I. ARMISTEAD NELSON, M.D., *Clinical Instructor in Surgery*
 JEFFERSON C. PENNINGTON, M.D., *Clinical Instructor in Surgery*
 DAVID R. PICKENS, JR., M.D., *Clinical Instructor in Surgery*
 KIRKLAND W. TODD, JR., M.D., *Clinical Instructor in Surgery*
 WILLIAM C. ALFORD, M.D., *Assistant in Surgery*
 WALEED N. AMRA, M.D., *Assistant in Surgery*

ISAM N. ANABTAWI, M.D., *Assistant in Surgery*
 JAMES E. BLACKBURN, M.D., *Assistant in Surgery*
 STANLEY BROCKMAN, M.D., *Assistant in Surgery*
 JAMES M. CALLAWAY, M.D., *Assistant in Surgery*
 JAMES H. FLEMING, M.D., *Assistant in Surgery*
 JAMES L. GUEST, M.D., *Assistant in Surgery*
 J. KENNETH JACOBS, M.D., *Assistant in Surgery*
 CHAMBLESS R. JOHNSTON, M.D., *Assistant in Surgery*
 F. BEACHLEY MAIN, M.D., *Assistant in Surgery*
 DONALD V. MCCONNELL, M.D., *Assistant in Surgery*
 JAMES A. O'NEILL, JR., M.D., *Assistant in Surgery*
 WILLIAM R. PRIDGEN, M.D., *Assistant in Surgery*
 W. GARDNER RHEA, M.D., *Assistant in Surgery*
 ROBERT E. RICHIE, M.D., *Assistant in Surgery*
 ROBERT T. SESSIONS, M.D., *Assistant in Surgery*
 WILLIAM S. STONEY, M.D., *Assistant in Surgery*
 PANAGIOTIS SYMBAS, M.D., *Assistant in Surgery*
 E. DEWEY THOMAS, M.D., *Assistant in Surgery*
 ELLIS A. TINSLEY, M.D., *Assistant in Surgery*
 E. WILLIAM WINFREY, III, M.D., *Assistant in Surgery*
 VERNON REYNOLDS, M.D., *Research Associate in Surgery*

1. INTRODUCTION TO CLINICAL MEDICINE. An integrated course given by members of the Departments of Surgery, Medicine, Pediatrics, Radiology, and Biochemistry. Lectures, demonstrations, and practical experience are designed to introduce students to methods used in examining patients and to the interpretation of data so obtained. This course serves also as a transition from the courses in biochemistry, physiology, and pathology to their application in clinical medicine. The course consists of fourteen lectures or demonstrations and six hours of practical demonstrations weekly during the spring quarter of the second year. *Dr. Daniel and Staff; Drs. Kampmeier, Strayhorn, and Staff (Department of Medicine); Dr. Christie (Department of Pediatrics); Dr. Francis (Department of Radiology); and Dr. Blood (Department of Biochemistry).*

2. PHYSICAL DIAGNOSIS IN SURGERY. The object of this course is to instruct students in those methods of physical diagnosis particularly referable to surgical diseases. The student is instructed in the methods of physical examination of the abdomen, spine, joints, and deformities. Two hours a week during the spring quarter of the second year. *Dr. Edwards.*

3. SURGICAL PATHOLOGY. The lectures, supplemented by specimens from the operating room, fixed gross specimens, roentgenograms and microscopic sections, correlate the clinical manifestations and the pathologic changes in the most frequent surgical diseases. Three hours a week throughout the third year. *Dr. McSwain.*

4. SURGICAL OUTPATIENT SERVICE. For one quarter the students of the third-year class serve daily as assistants in the outpatient clinics of general surgery, neurological surgery, otolaryngology, ophthalmology, orthopedic

surgery, and genito-urinary surgery. They make the records of the histories, physical examinations, and laboratory tests of the patients attending the outpatient clinics and assist in the dressings and in minor operations. Various members of the surgical staff are in attendance to instruct the students in their work and to discuss with them the diagnosis and treatment of the patients. In the clinics of orthopedic surgery and urology the students receive instruction in the particular methods of diagnosis and treatment used by these special branches of surgery. Fifteen hours a week throughout one quarter of the third year. *Dr. McSwain and Staff.*

5. SURGICAL WARDS. For one quarter, one third of the fourth year students serve daily as assistants in the surgical wards of the Vanderbilt University Hospital. The students, under the direction of the staff, make the records of the histories, physical examinations, and the usual laboratory tests. Ward rounds are made daily by the various members of the surgical staff at which time surgical conditions are discussed with the students. The students may be present in the operating rooms at such times as their required work permits. When possible the student is permitted to assist in a surgical operation which is performed upon a patient assigned to him in the ward. Approximately twenty hours a week during one quarter of the fourth year. *Dr. Scott and Staff.*

6. SURGICAL CLINICS. The students of the third- and fourth-year classes are expected to attend the weekly amphitheater surgical clinic. The subjects considered at these clinics vary with the clinical material available. Particular emphasis is placed on the correlation of the basic and clinical sciences. So far as it is possible an attempt is made to have the various instructors present well-studied cases illustrating surgical conditions with which the instructor is particularly familiar. Members of the house staff are given the opportunity and are expected to attend these clinics. One hour a week throughout the third and fourth years. *Drs. Scott, Daniel, and Staff.*

7. ELECTIVE COURSES IN SURGERY.

a) OPERATIVE SURGERY. In this course the students are instructed in the theories and techniques of the handling of surgical wounds. Three hours per week. Limited to twelve students for six-week periods throughout the academic year. *Dr. Stephenson and Staff.*

b) SURGICAL PATHOLOGY. Two students, each pair for one month, work in the tumor clinic and study the gross and microscopic material in the surgical pathology laboratory. *Dr. McSwain.*

c) TISSUE GROWTH. Two students, each pair for one month, work in the tissue culture laboratory studying the characteristics of growth of malignant tumor tissue in vitro. *Dr. McSwain and Miss Orr.*

DENTAL SURGERY

ROBERT B. BOGLE, JR., D.D.S., *Clinical Professor of Dental Surgery*

E. THOMAS CARNEY, D.D.S., *Assistant Clinical Professor of Dental Surgery*

WILLIAM S. GRAY, D.D.S., *Assistant Clinical Professor of Dental Surgery*
FRED H. HALL, D.D.S., *Assistant Clinical Professor of Dental Surgery*
ELMORE HILL, D.M.D., *Assistant Clinical Professor of Dental Surgery*
EDWARD H. MARTIN, D.M.D., *Assistant Clinical Professor of Dental Surgery*
JAMES B. BAYLOR, D.D.S., *Clinical Instructor in Dental Surgery*
FRANK H. DEPIERRI, JR., D.M.D., *Clinical Instructor in Dental Surgery*
CHARLES J. LADD, D.D.S., *Clinical Instructor in Dental Surgery*
FRED M. MEDWEDEFF, D.D.S., *Clinical Instructor in Dental Surgery*
JACK CARLYLE SCHMITT, D.D.S., *Clinical Instructor in Dental Surgery*

Although there are no formal lectures or recitations in dental surgery, the students of the fourth-year class have opportunity to become familiar with diseases of the teeth and gums arising in the various clinics of the outpatient service. The division of dental surgery conducts a clinic two days each week, to which patients suffering from diseases of the teeth or gums are referred for examination and treatment.

NEUROLOGICAL SURGERY

WILLIAM F. MEACHAM, M.D., *Clinical Professor of Neurological Surgery*
CULLY A. COBB, JR., M.D., *Associate Clinical Professor of Neurological Surgery*
ARNOLD MEIROWSKY, M.D., *Assistant Clinical Professor of Neurological Surgery*
JOE M. CAPPS, M.D., *Clinical Instructor in Neurological Surgery*
CHARLES DAVID SCHEIBERT, M.D., *Clinical Instructor in Neurological Surgery*
ARTHUR G. BOND, M.D., *Assistant in Neurological Surgery*
HOSSEIN SAKHAI, M.D., *Assistant in Neurological Surgery*
MANUEL TALLON-ZARZA, M.D., *Assistant in Neurological Surgery*

1. NEUROLOGICAL SURGERY. A clinical presentation of neurosurgical problems with emphasis on diagnosis and management. Third and fourth-year classes. Two hours per month throughout the year. *Drs. Meacham and Cobb.*

2. NEUROSURGICAL CLINIC. Work in the neurosurgical outpatient service. Examinations and treatment of patients including follow-up studies on postoperative cases. Informal neurosurgical seminar at end of period. Third-year class. *Drs. Cobb and Meacham.*

3. NEUROPATHOLOGY. A series of lectures followed by gross and microscopic studies of surgical neuropathological disorders. Integrated with the regular surgical pathology course. Third-year class. Nine hours during the winter quarter. *Dr. Meacham and Resident Staff.*

ORTHOPEDIC SURGERY

J. WILLIAM HILLMAN, M.D., *Professor of Orthopedic Surgery*
EUGENE M. REGEN, M.D., *Clinical Professor of Orthopedic Surgery*

GEORGE K. CARPENTER, M.D., *Associate Clinical Professor of Orthopedic Surgery*
 S. BENJAMIN FOWLER, M.D., *Associate Clinical Professor of Orthopedic Surgery*
 GEORGE N. AUSTIN, M.D., *Assistant Professor of Orthopedic Surgery*
 J. JEFFERSON ASHBY, M.D., *Assistant Clinical Professor of Orthopedic Surgery*
 DON L. EYLER, M.D., *Assistant Clinical Professor of Orthopedic Surgery*
 JOHN GLOVER, M.D., *Assistant Clinical Professor of Orthopedic Surgery*
 GEORGE E. FREEMAN, M.D., *Instructor in Orthopedic Surgery*
 JOHN M. WAMPLER, M.D., *Instructor in Orthopedic Surgery*
 JOE G. BURD, M.D., *Clinical Instructor in Orthopedic Surgery*
 ARNOLD HABER, JR., M.D., *Clinical Instructor in Orthopedic Surgery*
 CHARLES M. HAMILTON, M.D., *Clinical Instructor in Orthopedic Surgery*
 A. BRANT LIPSCOMB, *Clinical Instructor in Orthopedic Surgery*
 ANDREW H. MILLER, M.D., *Clinical Instructor in Orthopedic Surgery*
 THOMAS F. PARRISH, M.D., *Clinical Instructor in Orthopedic Surgery*
 G. WILLIAM DAVIS, JR., M.D., *Assistant in Orthopedic Surgery*
 BRUCE DERBYSHIRE, M.D., *Assistant in Orthopedic Surgery*
 JOHN R. JONES, M.D., *Assistant in Orthopedic Surgery*
 ROBERT J. SMITH, M.D., *Assistant in Orthopedic Surgery*
 PHILIP L. WILLIAMS, M.D., *Assistant in Orthopedic Surgery*

1. **ORTHOPEDIC SURGERY.** A course of lectures and clinical presentations in which the more important parts of orthopedic surgery are discussed. Ten hours during the fall and winter quarters of the third year. *Drs. Hillman, Regen, and Staff.*

2. **CLINICAL INSTRUCTION.** Students receive clinical instruction in orthopedic surgery during the fourth year in the wards and during the third year in the outpatient department. This instruction is given by the members of the orthopedic surgery staff at formal ward rounds weekly to the students serving as clinical clerks on the wards and in weekly seminars in the outpatient department. The time given to this instruction is included in that assigned to Surgery 5 and Surgery 6. *Drs. Hillman, Regen, and Staff.*

OTOLARYNGOLOGY

GUY M. MANESS, M.D., *Clinical Professor of Otolaryngology*
 J. THOMAS BRYAN, M.D., *Assistant Clinical Professor of Otolaryngology*
 HERBERT DUNCAN, M.D., *Assistant Clinical Professor of Otolaryngology*
 W. G. KENNON, JR., M.D., *Assistant Clinical Professor of Otolaryngology*
 WILLIAM WESLEY WILKERSON, JR., M.D., *Assistant Clinical Professor of Otolaryngology*
 MORRIS ADAIR, M.D., *Clinical Instructor in Otolaryngology*
 CLYDE ALLEY, JR., M.D., *Clinical Instructor in Otolaryngology*

1. **OTOLARYNGOLOGY.** A course of lectures and clinical presentations in which the diseases of the ear, nose, and throat are discussed briefly and the methods of treatment are described. One hour a week during the fall quarter of the third year. *Dr. Maness.*

2. CLINICAL OTOLARYNGOLOGY. Groups consisting of one sixth of the third-year class are assigned to clinical work in the outpatient clinic, where they have an opportunity to examine patients, to practice the simpler forms of treatment, to witness and to assist in operations, and to participate in the postoperative care of patients. Eight hours a week during one half of one quarter. *Drs. Maness, Bryan and Staff.*

UROLOGY

A. PAGE HARRIS, M.D., *Associate Professor of Urology*
EDWARD HAMILTON BARKSDALE, M.D., *Associate Clinical Professor of Urology*
CHARLES E. HAINES, JR., M.D., *Associate Clinical Professor of Urology*
HARRY S. SHELLY, M.D., *Assistant Professor of Urology*
ALBERT P. ISENHOUR, M.D., *Clinical Instructor in Urology*
ROBERT E. MCCLELLAN, M.D., *Clinical Instructor in Urology*
TOM E. NESBITT, M.D., *Clinical Instructor in Urology*
PHILLIP P. PORCH, JR., M.D., *Clinical Instructor in Urology*
JOHN M. TUDOR, M.D., *Clinical Instructor in Urology*
OLIVER O. CAMPBELL, M.D., *Assistant in Urology*
NEIL O. CHAMBERLAIN, M.D., *Assistant in Urology*
DAVID M. WOODHEAD, M.D., *Assistant in Urology*

1. UROLOGY. A course of lectures and clinics is given covering the more important aspects of urology. One hour a week during the winter quarter of the third year. *Dr. Harris and Staff.*

2. CLINICAL INSTRUCTION. Students receive clinical instruction in urology during the third year in the outpatient service and during the fourth year on the wards. This instruction is given by the members of the urological staff at formal ward rounds on alternate Tuesdays to the students serving as clinical clerks in both the wards and the outpatient department. The time given to this instruction is included in that assigned to Surgery 5 and Surgery 6. *Drs. Harris, Barksdale, Haines, and Staff.*

Audiology & Speech Pathology

FORREST M. HULL, Ph.D., *Associate Professor of Speech Science and Acting Head of the Division*
EUGENE M. BATZA, Ph.D., *Associate Professor of Speech Pathology*
RONALD WALLACE WENDAHL, Ph.D., *Associate Professor of Speech Science*
FRANCIS X. BLAIR, Ph.D., *Assistant Professor of Audiology (Effective December 1960)*
STUART GILMORE, M.A., *Assistant Professor of Speech Pathology*
JACK WILLEFORD, Ph.D., *Assistant Professor of Audiology*
CLAIRE COOPER, M.A., *Instructor in Audiology*
M. ANN GANNAWAY, M.A., *Instructor in Speech Pathology*
KATHRYN BARTH HORTON, M.S., *Instructor in Speech Pathology*
ROBERT E. KELLY, M.A., *Instructor in Audiology (Effective December 1960)*
F. DOUGLAS McDONALD, M.S., *Instructor in Audiology*
NORMA LOU ROBINSON, M.S., *Instructor in Speech Pathology*

ADMISSION TO GRADUATE STUDY IN AUDIOLOGY AND SPEECH PATHOLOGY

Graduates with Bachelor's degrees from approved institutions are admitted into the Division for work which their undergraduate records indicate they are qualified to take. They shall have complete courses of study approximately equivalent to those required at Vanderbilt University for the Bachelor's degree, if not a graduate of that institution, and shall have maintained a B average in their undergraduate work and specifically a B average in their major field. Under certain circumstances a student may sometimes be required to complete the requirements for the Bachelor's degree at Vanderbilt University before proceeding to the Master's degree, and their admission to advanced courses may be subject to the instructor's consent.

Application for admission should be made by writing directly to the Division of Audiology and Speech Pathology, requesting the necessary blank forms. The applicant who presents himself at the beginning of a term without having had any previous communication should have a certified copy of his college record sent to the Division and should bring a copy of his college catalogue.

Graduate students will normally expect to begin their work with the fall semester. They may be admitted, however, at the beginning of any other term. Successful completion of a minimum of one term of course work is required before a student is assigned a thesis topic.

REQUIREMENTS FOR MASTER'S DEGREE

A minimum of 18 semester hours in the major field, either audiology or speech according to the student's primary interest, and at least 6 semester hours in a minor subject are required. In addition, a written thesis is required. The program must include one seminar course and at least two other 300-level courses, and clinical practice under supervision will be an integral part of the training program. The Master's degree program requires a minimum of two semesters and a summer term.

The candidate shall submit, not later than the fourteenth day before the degree is to be granted, three copies of a written thesis in the field of his major subject which gives evidence of original investigation. The candidate shall furnish an abstract of his thesis and pay a fee of \$2 for the binding of each required copy of his thesis and \$6 for the printing of the abstract. The thesis is additional to the 24 term hours required for the degree. Detailed instructions as to the form in which the thesis is to be submitted may be secured from the Division.

The grading system in the Division of Audiology and Speech Pathology includes letter grades A, B, C, D, and F. In courses in which the student is registered for graduate credit, a minimum grade of D is required for course credit. A quality point ratio of 2.0 on all courses taken for credit is necessary for graduation. (A=3, B=2, C=1, D=0, F=0.) Non-credit courses taken because of deficiencies in background preparation or for general cultural reasons are not counted toward total hours or in arriving at the quality point ratio.

All students are subject to the Honor Code and are under the jurisdiction of the Honor Council.

The University reserves the right, and by matriculation the student acknowledges this right, at any time to suspend or dismiss a student whose conduct or academic standing is in its judgment unsatisfactory.

FINAL EXAMINATION

In addition to the ordinary course examinations, the candidate for the Master's degree is required ordinarily to take an oral examination on his written thesis. Such examination, if given, shall be completed not later than fourteen days before the degree is to be granted.

EXPENSES

Tuition in the Division of Audiology and Speech Pathology is \$375 per semester for a program of 9 to 13 hours.

For schedules in excess of 13 hours, \$42 per semester hour is added for each extra hour, and schedules less than 9 hours are charged at the rate of \$42 per semester hour, provided, however, that the minimum tuition charge per semester is \$90.

The fees give all students the privilege of the health service offered by the University.

Students who register for thesis research without credit will pay a fee of \$90 per term for thesis direction and for the use of the library.

There is a diploma fee of \$10.

All students who fail to register on the days designated will be charged a fee of \$5 for late registration.

THE COURSE OF STUDY

Following the course description the term or terms in which the course is offered is indicated. The figures in parentheses indicate the number of credit hours per term. Medical students, nurses, teachers, and properly qualified students, not candidates for the degree of Master of Science, may be admitted to any of the courses by special arrangement with the instructors.

The student may elect a program of study with emphasis in either audiology or speech pathology. Certain courses are basic to both areas of study and may be counted for credit in either. Other courses primarily clinical in content or involving independent study may be taken also for credit in either area. These courses are listed below in the first section and are followed by those which can be counted for credit only in the specific area noted in the heading.

I. AUDIOLOGY & SPEECH PATHOLOGY

220. ANATOMY AND FUNCTION OF THE CENTRAL NERVOUS SYSTEM. Lectures and demonstrations designed to acquaint the student with the basic structure and function of the central nervous system. Emphasis on the integrative activity as related to both normal and deviant oral communication. SPRING.

[3] *Dr. Hull.*

221. ANATOMY AND FUNCTION OF SPEECH AND HEARING. Lectures, readings, demonstrations, and laboratory dissections presenting the structures and function of breathing, phonation, resonance, articulation, and audition. Emphasis on the fundamental physiological principles of speech production and the psychoacoustics of hearing. Four one-hour lectures weekly, with laboratory sections. FALL. [4] *Drs. Hull and Willeford.*

223. DIAGNOSIS AND APPRAISAL I: INTRODUCTION. Diagnostic tests and procedures for children and adults with impaired hearing or defective speech. Methods of assessing areas basic to normal speech and language development. Case history interpretation. Clinical observation and report writing required. Prerequisite or corequisite: Audiology 240, Speech 230, and Child Psychology, or consent of instructor. FALL. [3] *Mrs. Horton.*

224. DIAGNOSIS AND APPRAISAL II: DIFFERENTIAL DIAGNOSIS. A study of the language and behavioral symptomatology of non-language children. Emphasis on the differential diagnosis of aphasia, central auditory disturbances, hearing loss, mental retardation and emotional disturbance. A consideration of appropriate evaluative procedures. Prerequisite: Audiology and Speech Pathology 223 or permission of the instructor. SPRING. [3] *Mrs. Horton.*

320. ADVANCED CLINICAL STUDY AND PRACTICE: AUDIOLOGY. Assigned readings and written reports combined with regular participation in one of the special clinics. Open by permission of instructor to students having the qualification for participation in the clinical activity selected. Course may be repeated for credit. FALL, SPRING & SUMMER. [2] *Staff.*

321. ADVANCED CLINICAL STUDY AND PRACTICE: SPEECH PATHOLOGY. Assigned readings and written reports combined with regular participation in one of the special clinics. Open by permission of instructor to students having the qualification for participation in the clinical activity selected. Course may be repeated for credit. FALL, SPRING & SUMMER. [2] *Staff.*

330. EXPERIMENTAL PHONETICS I. Special study of research methods and current significant research findings in the field of speech science and experimental phonetics. Special topics of investigation assigned. Lecture and laboratory. Prerequisite: an introductory course of speech science or consent of instructor. FALL. [4] *Dr. Blair.*

399a-399b-399c. PROBLEMS AND RESEARCH: (a) AUDIOLOGY, (b) SPEECH PATHOLOGY, (c) SPEECH SCIENCE. Individual programs of study basically investigative in nature. May be taken for thesis credit during third and fourth quarters of Master's program following an approval prospectus. The course, upon approval of the Division, may be taken also for credit hours on topics unrelated to the thesis. A written report following each unit is required. FALL, SPRING & SUMMER. [3] *Staff.*

II. AUDIOLOGY

240. INTRODUCTION TO AUDIOLOGY. A study of the theory and practice of hearing measurement with emphasis on basic pure tone and speech aud-

ometry, including instrumentation. Principles of hearing conservation. FALL. [4] *Dr. Willeford.*

241. SPEECH AND LANGUAGE DEVELOPMENT OF THE ACOUSTICALLY HANDICAPPED. Historical background of education of the deaf and hard of hearing. A consideration of the theories and problems encountered in the developing of speech and language in acoustically handicapped children. FALL. [3] *Mr. Kelly.*

245. PRINCIPLES OF AURAL REHABILITATION I: SPEECHREADING. Theory of speechreading as a receptive process with an analysis of the various systems for developing speechreading skills with children and adults. FALL. [3] *Mr. McDonald.*

246. PRINCIPLES OF AURAL REHABILITATION II: AUDITORY TRAINING. A study of recent concepts in maximum utilization of residual hearing in the development of effective communicative functioning of hearing impaired individuals. Principles and use of electronic amplification in aural rehabilitation. SPRING. [3] *Mr. Kelly.*

247. PSYCHOLOGY OF DEAFNESS. A consideration of the impact of hearing impairment on the preschool child, the school-age child, and the adult. Research studies in the areas of social, motor, intellectual, and psychological development of the individual, and the role of the deaf person in contemporary society. SPRING. [3] *Dr. Willeford.*

340. ADVANCED CLINICAL AUDIOLOGY. A study of the research and theory of clinical selection of hearing aids and their use. Special tests and exploratory techniques in audiologic assessment and psychophysics of audition in relation to clinical problems. Prerequisite: Audiology 240. SPRING. [4] *Dr. Willeford.*

341. SEMINAR IN AUDIOLOGY. Study of research methods and current significant research findings in the field of audiology. Individual topics of investigation required. Course may be repeated for credit. Prerequisite: Audiology 240. SUMMER. [3] *Dr. Willeford.*

III. SPEECH PATHOLOGY

230. ARTICULATION AND VOICE DISORDERS. A study of the etiology, evaluation, and management of articulatory defects and voice disorders. Prerequisite or corequisite: Phonetics. FALL. [3] *Dr. Batza.*

231. STUTTERING. A review of the significant research in the field of stuttering, with emphasis on etiologies and therapies. Consideration of the management of fluency disturbances. SPRING. [3] *Mr. Gilmore.*

232. ORGANIC SPEECH DISORDERS. A study of the etiologies, diagnosis, and management of speech and language defects associated with the neuropathologies, structural anomalies, and physiological dysfunction. Emphasis

on cerebral palsy, bulbar poliomyelitis, cleft palate, postlaryngectomy, and organic voice disorders. Prerequisite: Speech 230. SPRING. [4] *Dr. Batza.*

331. APHASIA. A study of language disturbances related to CNS dysfunction. Consideration of normal and abnormal symbolic function, including perceptual disturbances. Evaluation and classification of the aphasias with discussion of psychological and behavioral correlates and rehabilitation procedures. Prerequisite or corequisite: Audiology and Speech 220 and/or Physiological Psychology. SPRING. [3] *Dr. Hull.*

332. SEMINAR IN SPEECH PATHOLOGY. Study or research methods and current significant research findings in the field of speech pathology. Individual topics of investigation required. Course may be repeated for credit. SPRING. [3] *Dr. Gilmore.*

NOTE: *In addition, courses are offered in the special education division at George Peabody College and are available to the graduate student in the Division of Audiology and Speech Pathology in completing a sequence of study in his major or minor area.*

III. SPEECH PATHOLOGY

REGISTER OF STUDENTS

1959-60

FOURTH-YEAR CLASS

Bernstein, William Harvey (B.A., Vanderbilt)	Teaneck, N. J.
Bomar, Robert Lynn, Jr. (B. A., Vanderbilt)	Nashville, Tenn.
Bradley, John Durwood, Jr. (B. A., Vanderbilt)	Birmingham, Ala.
Brown, Alan J. (B.A., Columbia)	Bethesda, Md.
Caldwell, Benjamin Hubbard, Jr. (B. A., Vanderbilt)	Humboldt, Tenn.
Cohen, Samuel Lawrence (B.A., Vanderbilt)	Nashville, Tenn.
Cole, Edward Fowler (B.S., Florida)	Orlando, Fla.
Coleman, Mathias John (A.B., Pennsylvania)	Allentown, Pa.
DiNella, Renald Robert (B.A., Pennsylvania; Ph.D., Vanderbilt)	Nashville, Tenn.
Douglass, Larry Earle (B.A., Washington)	Florissant, Mo.
Duncan, Malcolm P. (B.A., Vanderbilt)	Signal Mountain, Tenn.
Edwards, Robert Harvey (B.S., Western Kentucky State)	Sturgis, Ky.
Goodson, William Houston, Jr. (B.A., Vanderbilt)	Huntsville, Ala.
Haley, Robert Leo, Jr. (B.A., Vanderbilt)	Elkton, Ky.
Harris, Buford Terrell (B.A., Vanderbilt)	Lawrenceburg, Tenn.
Hutcherson, John Dudley (A.B., Central College)	Palmyra, Mo.
Loda, Frank, Jr. (A.B., Harvard)	Texarkana, Ark.
Logan, Charles Wilbur (B.A., Southern Methodist)	Nashville, Tenn.
McClarín, William Maddux, Jr. (B.A., Vanderbilt)	Nashville, Tenn.
Merritt, Cullen Rencher, II (A.B., Princeton)	Lowgap, N. C.
Michal, Mary Lenoir (A.B., Woman's College, North Carolina)	Waynesville, N. C.
Miller, John Stanley (B.S., Davidson)	Richmond, Ky.
Mitchell, William Marvin (B.A., Vanderbilt)	Nashville, Tenn.
Moorman, Robert Searcy, Jr. (B.A., Vanderbilt)	Huntsville, Ala.
Muldrow, Louis Meriwether, Jr. (B.A., Vanderbilt)	Jasper, Ala.
Park, George Richardson (A.B., Kentucky)	Richmond, Ky.
Partain, Jonathan Ogilvie (B.A., Vanderbilt)	Nashville, Tenn.
Perrine, John Dixon (B.S., Kentucky)	Maysville, Ky.
Ravitz, S. Peter (B.A., Vanderbilt)	Brooklyn, N. Y.
Regester, Rolland Florin, Jr. (B.A., Vanderbilt)	Rockwood, Tenn.
Ryden, Fred Ward (B.A., Colorado; M.S., Ph.D., Vanderbilt)	Nashville, Tenn.
Sanger, Marilyn Janett (B.A., Oklahoma)	Norman, Okla.
Sawyers, Julia Edwards (A.B., Randolph-Macon)	Nashville, Tenn.
Schaeffer, Edward Morris (A.B., Westminster; M.S., St. Louis)	Alton, Ill.
Snyder, Harold Emil (B.S., Purdue)	Cloverdale, Ind.
Steranka, Joseph (B.A., Vanderbilt)	Nashville, Tenn.
Stone, William Pipkin, Jr. (B.A., Vanderbilt)	Springfield, Tenn.
Stumb, Paul Rust (B.A., Vanderbilt)	Nashville, Tenn.
Thomas, Clarence Simpson, Jr. (B.A., Vanderbilt)	Nashville, Tenn.
Vasu, Cordell Mark (A.B., M.S., Michigan)	Detroit, Mich.
von Hippel, Marianne Waelder (A.B., Oberlin)	Weston, Mass.
Walker, Andrew William (A.B., Westminster)	Ookala, Hawaii
Watkins, George Miller, Jr. (B.A., Vanderbilt)	Nashville, Tenn.
Wheeler, Arville Vance (B.A., Vanderbilt)	Nashville, Tenn.
Wheeler, William Godfrey, Jr. (B.S., Kentucky)	Ashland, Ky.
White, Elbert Asa, 3rd. (B.A., Vanderbilt)	Corinth, Miss.
Wolfe, Lawrence Kenneth (B.A., Vanderbilt)	Murfreesboro, Tenn.
Young, William Clarence (B.S., Maryville)	Maryville, Tenn.

THIRD-YEAR CLASS

Abrahams, Lawrence Michael (A.B., Harvard)	Nashville, Tenn.
Albright, Charles Durrell, II (B.A., Vanderbilt)	Bucyrus, Ohio
Alford, Robert Henderson (B.A., Vanderbilt)	Nashville, Tenn.
Anderson, Edward Eugene (B.A., Vanderbilt)	Dyersburg, Tenn.
Bryan, Bertell Collis (A.B., Washington)	St. Louis, Mo.
Buchanan, Richard Durr (B.A., Vanderbilt)	Nashville, Tenn.
Burr, Robert Edward (B.A., Vanderbilt)	Springfield, Tenn.
Cate, James Randolph (B.A., Vanderbilt)	Nashville, Tenn.
Clodfelder, Richard Paul (A.B., Washington)	Nashville, Tenn.
Cohn, Marvin Harris (B.A., Vanderbilt)	Bolivar, Tenn.
Cox, Samuel Foster (B.A., Vanderbilt)	Cookeville, Tenn.
Ferguson, Harold Austin (B.S., Western Kentucky State)	Owensboro, Ky.
Fleischer, Norman (B.A., Vanderbilt)	Springfield, Tenn.
Freeman, Rufus Jack (B.S., Kentucky)	Danville, Ky.
Gibson, Leo Eike, Jr. (B.A., Berea)	Williamson, W. Va.
Gillespie, Joe Ivy (B.A., LL.B., Mississippi)	Greenville, Miss.
Gorden, Phillip (B.A., Vanderbilt)	Baldwyn, Miss.
Hancock, George Marvin (B.S., Kentucky)	Russellville, Ky.
Hayes, Cauley Wilbur, Jr. (B.A., Vanderbilt)	Newnan, Ga.
Heimbürger, Richard Ames (B.A., Drury)	Springfield, Mo.
Hunt, Noel Clarence, III (B.A., Vanderbilt)	Chattanooga, Tenn.
Hunter, James Webb, Jr. (B.A., Vanderbilt)	Decatur, Ala.
Jernigan, Jerry Marshall (B.A., Vanderbilt)	Dyersburg, Tenn.
Johnson, John Settle (B.A., Vanderbilt)	Nashville, Tenn.
Johnson, Robert Marshall (B.A., Vanderbilt)	Nashville, Tenn.
Johnston, Hugh Haralson (B.S., Millsaps)	Vicksburg, Miss.
Johnston, Richard Boles (B.A., Vanderbilt)	Atlanta, Ga.
King, James Centre, Jr. (B.S., Western Ky. State)	Hopkinsville, Ky.
Lawwill, Theodore (B.A., Vanderbilt)	Lookout Mountain, Tenn.
Lee, Samuel Ching-Hsin (B.S., Belmont)	Washington, D. C.
Lev, Daniel Mathew (B.A., Vanderbilt)	Brooklyn, N. Y.
Light, Richard Theodore (A.B., Earlham)	Dayton, Ohio
Lightfoot, Robert Wilkins, Jr. (B.A., Vanderbilt)	Nashville, Tenn.
Lirkenhous, Edward Earl, Jr. (B.E., Vanderbilt)	Nashville, Tenn.
Logan, John A. (B.S., Western Ky. State)	Brownsville, Ky.
McCullough, Charles Thomas, Jr. (B.S., Kentucky)	Morganfield, Ky.
McFarlin, Dale Elroy (B.A., Vanderbilt)	Nashville, Tenn.
Porter, Charles McGavock (B.A., Vanderbilt)	Columbia, Tenn.
Resnik, Sorrel S. (B.A., Buffalo)	Kenmore, N. Y.
Rhea, Kenneth Earl (B.A., Westminster)	Anderson, Ind.
Sleight, George Waters, III (B.A., Westminster)	University City, Mo.
Tatum, Lucian Lafayette, Jr. (B.A., Vanderbilt)	Decatur, Ga.
Thuss, Charles John, Jr. (B.A., Catholic University)	San Francisco, Cal.
Tirrill, Willard Oakes, III (B.A., Vanderbilt)	Nashville, Tenn.
Trapp, John Douglas (B.A., Vanderbilt)	Tuscumbia, Ala.
Turney, Shannon Wilentz (B.A., Vanderbilt)	Decatur, Ala.
Underwood, Louis Edwin (A.B., Kentucky)	Frankfort, Ky.
Waltzer, Arthur Kenneth (B.A., Vanderbilt)	Tampa, Fla.
Wierdsma, John Gary (B.S., Sacramento State)	Sacramento, Calif.
Woodfin, Mose Clarke, Jr. (B.A., Vanderbilt)	Nashville, Tenn.
*Wright, Roy Rush (B.A., Vanderbilt)	Opp, Ala.
Youmans, William Tinsley (B.A., Vanderbilt)	Tifton, Ga.

SECOND-YEAR-CLASS

Altemeir, William Arthur, Jr. (B.A., Cincinnati)	Cincinnati, Ohio
Bailey, Harry Lee (B.A., Vanderbilt)	Winchester, Ky.
Baughman, Earle Wray, Jr. (B.A., Vanderbilt)	Tupelo, Miss.
Bonc, Robert Carver (B.A., Vanderbilt)	Lebanon, Tenn.
Carlisle, Oscar Burton (B.A., South Carolina)	Jackson, Miss.
Carpenter, Richard Woodrow (B.A., Vanderbilt)	Nashville, Tenn.

*Special Student

Collins, James Evans (A.B., Kentucky)	Louisville, Ky.
Cooper, Charles Lindsey (B.S., Western Ky. State)	Tallahassee, Fla.
Cooper, James Kyle (A.B., Kentucky)	Lexington, Ky.
Crowder, Wade Allen (B.S., Western Ky. State)	Mayfield, Ky.
Curl, Franklin Dale (B.S., Ohio State)	Cardington, Ohio
Davis, Warren Wendell (B.A., Vanderbilt)	Newnan, Ga.
Dudley, Guilford Marion, III (B.A., Vanderbilt)	Swifton, Ark.
Evans, Orville Thomas, Jr. (B.S., Denison)	Lexington, Ky.
Fryer, John Ercel (A.B., Transylvania)	Cincinnati, Ohio
Galloway, John Alexander (B.A., Vanderbilt)	Pereira, Colombia, S.A.
Garrard, Clifford Louis, Jr., (B.A., Vanderbilt)	Jackson, Tenn.
Gipson, Amos Carvel, Jr., (B.A., Vanderbilt)	Gadsden, Ala.
Green, James Winslow (B.A., Vanderbilt)	Paducah, Ky.
Harman, Harriet Maxwell (B.S., South Carolina)	Columbia, S. C.
Harris, Walter Davis (B.S., Kentucky)	Lexington, Ky.
Heinz, Wilbur August, Jr., (B.S. Kentucky)	Lexington, Ky.
Hill, Lewis Wayne (B.A., Vanderbilt)	Chattanooga, Tenn.
Humphreys, Jerry Kay (B.A., Vanderbilt)	Nashville, Tenn.
James, Floyd (B.S., Belmont)	Old Hickory, Tenn.
*Johnson, Glenda Kay (B.S., Western Ky. State)	Bowling Green, Ky.
Judge, Mark Andrew (B.A., Berea)	Walton, Ky.
Lasker, Frederick (B.A., Vanderbilt)	Jamaica, Queens, N.Y.
Lockert, Charles Ray Lopez (B.A., Vanderbilt)	Ashland City, Tenn.
Meyerowitz, Robert Benedict (A.B., New York)	Bronx, N. Y.
**Moore, Adam G. N. (A.B., Harvard)	Squantum, Mass.
Moses, Harold Lloyd (B.A., Berea)	Williamsburg, Ky.
Nightingale, Faith Fulling (B.S., Beaver; M.S., Pennsylvania)	Haddonfield, N.J.
Northcutt, Robert Clyde (B.A., Vanderbilt)	Texarkana, Ark.
O'Connor, Patrick Regan (B.A., Vanderbilt)	Louisville, Ky.
Orth, David Nelson (Sc.B., Brown)	Grand Rapids, Mich.
Otis, John Burrell (B.A., Vanderbilt)	Atlanta, Ga.
Pike, John Dorsey (B.S., Hendrix)	DeWitt, Ark.
Reams, Harold Lee (B.S., Kentucky)	Harlan, Ky.
Robbins, Benjamin Howard, Jr. (B.A., Vanderbilt)	Nashville, Tenn.
Robbins, Lansdon Breckinridge, II (B.A., Vanderbilt)	Henderson, Ky.
Russell, James Edward (B.A., Centre)	Huntington, W. Va.
Russell, Robert Vance (B.A., Vanderbilt)	Durham, N. C.
Saiter, Joseph Theodore, Jr., (B.A., Vanderbilt)	Louisville, Ky.
Sanders, Doris Yvonne (B.A., Austin Peay State)	Trenton, Ky.
Sawyer, Thomas Keith (B.S., Oklahoma)	Lindsay, Okla.
Schmidt, Marvin Elmer (B.A., Westminster)	Barnhart, Mo.
***Still, Eugene Fontaine, II, (B.A., Vanderbilt)	Blytheville, Ark.
Sullivan, Gerald Eugene (B.S., Kentucky)	Lexington, Ky.
Swingle, Roger Lynn (B.S., Alabama Polytechnic)	Auburn, Ala.
West, Linton Burnside, Jr. (B.S., Georgia)	Atlanta, Ga.
Whitlock, Chester Courtney, Jr. (A.B., Southwest Mo. State)	Springfield, Mo.
Wilson, Dale Arlis (B.S., Western Kentucky State)	Findlay, Ohio

FIRST-YEAR CLASS

Benedict, George William (B.A., Williams)	Columbus, Ohio
Brown, Willis Ellsworth, Jr. (Senior in Absentia, Vanderbilt)	Little Rock, Ark.
Burns, Chester Ray (B.A., Vanderbilt)	Nashville, Tenn.
Butler, Henry King (Senior in Absentia, Vanderbilt)	Murfreesboro, Tenn.
Cammarano, Ann Ayers (B.S., Oklahoma)	Olympia, Wash.
Chambliss, Robert Bryan (Senior in Absentia, Kentucky)	Hardinsburg, Ky.
Coles, Zachary Anderson, Jr. (B. S., University of the South)	Nashville, Tenn.
Deck, Marvin Edward, Jr. (B.A., Vanderbilt)	Nashville, Tenn.
Downey, William Lee (Senior in Absentia, Vanderbilt)	Springfield, Tenn.

*Died January 8, 1960.

**Withdrew May 18, 1960.

***Withdrew because of illness February 22, 1960.

Geddie, Daniel Clark (B.A., Vanderbilt)	Atlanta, Ga.
Gilbert, Gary Gene (B.S., Marshall)	Huntington, W. Va.
Gill, Gordon Nelson (Senior in Absentia, Vanderbilt)	Montgomery, Ala.
Goodman, Robert Porter (B.A., Vanderbilt)	Glasgow, Ky.
Green, Murphy Howard (Senior in Absentia, Kentucky)	Harlan, Ky.
Hale, Robert Baker, Jr. (B.A., Vanderbilt)	Wilmington, Del.
Hall, Larry Joe (B.A., Louisville)	Elizabethtown, Ky.
Harper, Clio Armitage (A. B., Harvard)	Nashville, Tenn.
Henry, John Nance (D. D. S., Texas)	Texarkana, Texas
Hester, Ray Willis (B.A., Vanderbilt)	Prichard, Ala.
Horn, Louis Giles, III (B.A., Vanderbilt)	Anniston, Ala.
Ikard, Robert Winston (Senior in Absentia, Vanderbilt)	Columbia, Tenn.
*James, Robert Patton (B.S., Denison)	Dayton, Ohio
**Jamieson, Oliver Meek, Jr. (Senior in Absentia, Vanderbilt)	Memphis, Tenn.
Laing, John Wailon (B.A., Marshall)	Cannelton, W. Va.
Lawrence, Robert Livingston (B.A., Vanderbilt)	Jackson, Miss.
Lentz, Joseph Francis (B.A., Vanderbilt)	Nashville, Tenn.
Lipscomb, Lewis Dubard (B.A., Vanderbilt)	Jackson, Miss.
Lovvorn, Harold Newton, (Senior in Absentia, Vanderbilt)	Athens, Ala.
Lowe, Robert Wylie, (B.S., Morehead State)	Morehead, Ky.
Maddy, James Allen (B.A., Vanderbilt)	Los Alamos, N. M.
McCutchen, Thomas McConnell, Jr. (B.S., Davidson)	Florence, S. C.
McKinney, William Thomas (B.A., Baylor)	Rome, Ga.
Moore, Billy Sam (B.A., David Lipscomb)	Petersburg, Tenn.
Overall, James Carney, Jr. (B.S., Davidson)	Nashville, Tenn.
Overfield, Ronald Edwin (Senior in Absentia, Kentucky)	Henderson, Ky.
Perry, James Murray, Jr. (Senior in Absentia, Vanderbilt)	Nashville, Tenn.
Pinkerton, Joseph Anderson, Jr. (Senior in Absentia, Vanderbilt)	Franklin, Tenn.
Rawlins, George Mimms (B.S. Austin Peay)	Clarksville, Tenn.
Rosen, Howard E. (A. B., Hamilton)	Nashville, Tenn.
Sewell, John Banks, Jr. (B.A., Vanderbilt)	Trinity, Ala.
Siler, Rita Anne (B.S., Austin Peay)	Guthrie, Ky.
Smith, Murray Wilton (Senior in Absentia, Vanderbilt)	Nashville, Tenn.
Stephenson, Harry Calvin (B.S., Western Kentucky)	Jamestown, Ky.
Thombs, David Dawson (B.A., Amherst)	Nashville, Tenn.
Threlkel, James Bentley (Senior in Absentia, Vanderbilt)	Owensboro, Ky.
Vasu, Ronald James (Senior in Absentia, Wayne)	Detroit, Mich.
Walsh, John Harley, (B.A., Vanderbilt)	Jackson, Miss.
Wilhoit, Michael Brady (B.S., Georgetown)	Grayson, Ky.
Woodalls, Paul Oliver (Senior in Absentia, Vanderbilt)	Birmingham, Ala.
York, Paul Sandidge, Jr. (Senior in Absentia, Vanderbilt)	Glasgow, Ky.
Yusk, Robert Stanley (B.S., Tennessee)	Dickson, Tenn.
Zimmerman, Glenn Allen (Senior in Absentia, Wayne)	Detroit, Mich.

DIVISION OF AUDIOLOGY AND SPEECH

Case, Agnes Lashlee (B.S., Peabody)	Nashville, Tenn.
Byrd, Eleanor Carter (B.S., Peabody)	Jacksonville, Fla.
Casey, Barbara Anne (B.S., Georgia)	Marietta, Ga.
Coleman, Robert Finley (B.A., Georgetown)	Memphis, Tenn.
Fletcher, Florence Glynn (B.A., Vanderbilt)	Nashville, Tenn.
Gaston, Margaret Anne (B.A., Vanderbilt)	Chattanooga, Tenn.
Harper, Lois Kathryn (B.S., Peabody)	Richmond, Va.
Petrie, Susie McLain (B.A., Vanderbilt)	Louisville, Ky.
Porter, Jane Loughridge (B.A., Vanderbilt)	Collierville, Tenn.
Sando, Joe Simon (B.A., Eastern New Mexico)	Santa Fe, N. M.
Scoggins, Betty Jeanne (B.A., Emory)	Griffin, Ga.
Stream, Richard William (B.S., Illinois)	Springfield, Ill.
Walker, Nancy Lee (B.S., Peabody)	Nashville, Tenn.
Werthan, Libby Joan (B.S., Northwestern)	Nashville, Tenn.

*Died February 29, 1960.

**Withdrew voluntarily October 9, 1959.

INTERNSHIPS

Class of May 1960

Bernstein, William Harvey	Teaneck, N. J.
Vanderbilt University Hospital, Nashville, Tennessee	
Bomar, Robert Lynn, Jr.	Nashville, Tenn.
Vanderbilt University Hospital, Nashville, Tenn.	
Bradley, John Durwood, Jr.	Birmingham, Ala.
North Carolina Baptist Hospital, Winston-Salem, N. C.	
Brown, Alan J.	Bethesda, Md.
Vanderbilt University Hospital, Nashville, Tenn.	
Caldwell, Benjamin Hubbard, Jr.	Humboldt, Tenn.
Cornell Medical Center, New York Hospital, New York, N. Y.	
Cohen, Lawrence Samuel	Nashville, Tenn.
University Hospitals, Cleveland, Ohio	
Cole, Edward Fowler	Orlando, Fla.
Brooke Army Hospital, San Antonio, Texas	
Coleman, Mathias John	Allentown, Pa.
Brooke Army Hospital, San Antonio, Texas	
DiNeilla, Renald Robert	Nashville, Tenn.
Vanderbilt University Hospital, Nashville, Tenn.	
Douglass, Larry Earle	Florissant, Mo.
Vanderbilt University Hospital, Nashville, Tenn.	
Duncan, Malcolm P.	Signal Mountain, Tenn.
William Beaumont Army Hospital, El Paso, Texas	
Edwards, Robert Harvey	Sturgis, Ky.
Vanderbilt University Hospital, Nashville, Tenn.	
Goodson, William Houston, Jr.	Huntsville, Ala.
Vanderbilt University Hospital, Nashville, Tenn.	
Haley, Robert Leo, Jr.	Elkton, Ky.
University Hospital, Augusta, Georgia	
Harris, Buford Terrell	Lawrenceburg, Tenn.
John Gaston Hospital, Memphis, Tenn.	
Hutcherson, John Dudley	Palmyra, Mo.
Presbyterian Hospital, New York, N. Y.	
Loda, Frank, Jr.	Texarkana, Ark.
Vanderbilt University Hospital, Nashville, Tenn.	
Logan, Charles Wilbur	Nashville, Tenn.
Cornell Medical Center, New York Hospital, New York, N. Y.	
McClarín, William Maddux, Jr.	Nashville, Tenn.
University Hospital and Hillman Clinic, Birmingham, Ala.	
Merritt, Cullen Rencher, II	Lowgap, N. C.
Vanderbilt University Hospital, Nashville, Tenn.	
Michal, Mary Lenoir	Waynesville, N. C.
Vanderbilt University Hospital, Nashville, Tenn.	
Miller, John Stanley	Richmond, Ky.
University of Oklahoma Hospitals, Oklahoma City, Okla.	

Mitchell, William Marvin.....	Nashville, Tenn.
The Johns Hopkins Hospital, Baltimore, Md.	
Moorman, Robert Searcy, Jr.....	Huntsville, Ala.
University Hospital and Hillman Clinic, Birmingham, Ala.	
Muldrow, Louis Meriwether, Jr.....	Jasper, Ala.
University Hospital, Jackson, Miss.	
Park, George Richardson.....	Richmond, Ky.
University Hospital, Jackson, Miss.	
Partain, Jonathan Ogilvie.....	Nashville, Tenn.
Vanderbilt University Hospital, Nashville, Tenn.	
Perrine, John Dixon.....	Maysville, Ky.
University Hospital, Jackson, Miss.	
Ravitz, S. Peter.....	Brooklyn, N. Y.
Albany Hospital, Albany, N. Y.	
Regester, Rolland Florin, Jr.....	Rockwood, Tenn.
Parkland Memorial Hospital, Dallas, Texas	
Ryden, Fred Ward.....	Nashville, Tenn.
Vanderbilt University Hospital, Nashville, Tenn.	
Sanger, Marilyn Janett.....	Norman, Okla.
University of Oklahoma Hospitals, Oklahoma City, Oklahoma	
Sawyers, Julia Edwards.....	Nashville, Tenn.
St. Thomas Hospital, Nashville, Tenn.	
Schaeffer, Edward Morris.....	Alton, Ill.
State University of Iowa Hospitals, Iowa City, Iowa	
Snyder, Harold Emil.....	Cloverdale, Ind.
Vanderbilt University Hospital, Nashville, Tenn.	
Steranka, Joseph.....	Nashville, Tenn.
Vanderbilt University Hospital, Nashville, Tennessee	
Stone, William Pipkin, Jr.....	Springfield, Tenn.
University Hospital, Jackson, Miss.	
Stumb, Paul Rust.....	Nashville, Tenn.
Grady Memorial Hospital, Atlanta, Ga.	
Thomas, Clarence Simpson, Jr.....	Nashville, Tenn.
Grace-New Haven Community Hospital, New Haven, Connecticut	
Vasu, Cordell Mark.....	Detroit, Mich.
Butterworth Hospital, Grand Rapids, Michigan	
von Hippel, Marianne.....	Weston, Mass.
Mount Auburn Hospital, Cambridge, Massachusetts	
Walker, Andrew William.....	Ookala, Hawaii
Barnes Hospital, St. Louis, Missouri	
Watkins, George Miller, Jr.....	Nashville, Tenn.
UCLA Medical Center, Los Angeles, California	
Wheeler, Arville Vance.....	Nashville, Tenn.
Vanderbilt University Hospital, Nashville, Tenn.	
Wheeler, William Godfrey, Jr.....	Ashland, Ky.
Vanderbilt University Hospital, Nashville, Tenn.	
White, Elbert Asa, 3rd.....	Corinth, Miss.
Vanderbilt University Hospital, Nashville, Tenn.	
Wolfe, Lawrence Kenneth.....	Murfreesboro, Tenn.
Vanderbilt University Hospital, Nashville, Tenn.	
Young, William Clarence.....	Maryville, Tenn.
Vanderbilt University Hospital, Nashville, Tenn.	

MEDALS, PRIZES, AND SCHOLARSHIPS

For the Year 1959-60

FOUNDER'S MEDAL FOR SCHOLARSHIP. Endowed by Commodore Cornelius Vanderbilt and given ever since to the graduate standing first in his class.

CHARLES WILBUR LOGAN.....Nashville, Tenn.

BEAUCHAMP SCHOLARSHIP. Endowed, and awarded in the School of Medicine to the Department of Psychiatry.

WILLIAM HOUSTON GOODSON, JR.....Huntsville, Ala.

BORDEN UNDERGRADUATE RESEARCH AWARD IN MEDICINE. Awarded for the most meritorious undergraduate research in the medical field.

WILLIAM MARVIN MITCHELL.....Nashville, Tenn.

THE MERRELL AWARD IN PATHOLOGY. Awarded annually for outstanding research papers by Vanderbilt University medical students in the field of Pathology.

HAROLD E. SNYDER.....Cloverdale, Ind.

ALPHA OMEGA ALPHA

Scholarship Society of the School of Medicine

Fourth-Year Class

WILLIAM HOUSTON GOODSON, JR.....Huntsville, Ala.
JOHN DUDLEY HUTCHERSON.....Palmyra, Mo.
CHARLES WILBUR LOGAN.....Nashville, Tenn.
JONATHAN OGILVIE PARTAIN.....Nashville, Tenn.
ROLLAND FLORIN REGISTER, JR.....Rockwood, Tenn.
EDWARD MORRIS SCHAEFFER.....Alton, Ill.
HAROLD EMIL SNYDER.....Cloverdale, Ind.
CLARENCE SIMPSON THOMAS, JR.....Nashville, Tenn.
LAWRENCE KENNETH WOLFE.....Murfreesboro, Tenn.

Third-Year Class

ROBERT HENDERSON ALFORD.....Nashville, Tenn.
CAULEY WILBUR HAYES, JR.....Newnan, Ga.
ROBERT WILKINS LIGHTFOOT, JR.....Nashville, Tenn.