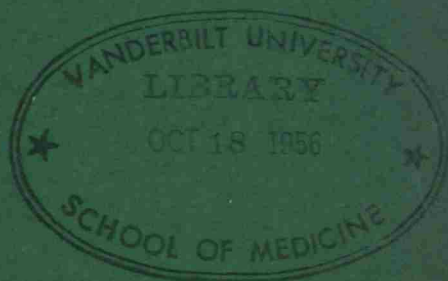


CIRCULATES

SECT!

VANDERBILT
UNIVERSITY



1956-57 CATALOGUE

School of Medicine

1956-57 CATALOGUE
VANDERBILT UNIVERSITY
School of Medicine

Containing the register of students
for the 1955-56 session, general information, courses
of study, and appointments for the 1956-57 session,
corrected to August 1, 1956, Nashville, Tennessee.

CALENDAR

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CALENDAR OF SCHOOL ACTIVITIES

1956-1957

September 24 and 25

Monday and Tuesday.....Registration.

September 26, Wednesday...Instruction begins.

November 22, Thursday.....A holiday. Thanksgiving Day.

December 8, Saturday.....Fall quarter ends.

December 10, Monday.....Winter quarter begins.

December 21, Friday.....Christmas vacation begins at 5:00 P.M.

January 2, Wednesday.....Instruction resumed.

January 26, Saturday.....First semester (First Year) ends.

January 28, Monday.....Second semester (First Year) begins.

March 2, Saturday.....Winter quarter ends.

March 4, Monday.....Spring quarter begins

May 17, Friday.....Spring quarter ends.

May 18, Saturday.....Examinations begin.

May 30, Thursday.....Founder's Day.

June 1, Saturday.....Alumni Day.

June 2, Sunday.....Commencement Day.

Graduation Exercise at 6:00 P.M.

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Vanderbilt University is composed of seven distinct academic divisions: the College of Arts & Science, the Graduate School, and five professional schools of Law, Medicine, Nursing, Engineering, and Divinity. These major divisions of the University, along with the degrees offered by each, are listed below. (*Vanderbilt University confers no honorary degree.*)

THE COLLEGE OF ARTS & SCIENCE

Bachelor of Arts, B.A.

THE GRADUATE SCHOOL

Master of Arts, M.A.

Master of Arts in Teaching

Master of Science, M.S.

Doctor of Philosophy, Ph.D.

THE SCHOOL OF LAW

Bachelor of Laws, LL.B.

THE SCHOOL OF MEDICINE

Doctor of Medicine, M.D.

Master of Science in Audiology and Speech

THE SCHOOL OF NURSING

Bachelor of Science in Nursing, B.S.N.

Master of Science in Nursing, M.S.N.

THE SCHOOL OF ENGINEERING

Bachelor of Engineering, B.E.

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Electrical Engineer, E.E.

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Bachelor of Divinity, B.D.

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CONSULTING HEMATOLOGIST

ROBERT CARL HARTMANN

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JULY 1, 1956—JUNE 30, 1957

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

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S. BENJAMIN FOWLER	SAMUEL BRADLEY PREVO
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CHARLES E. HAINES, JR.	JOHN M. TUDOR

**On leave of absence.

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CULLY COBBC. C. McCLURE, JR.
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ARNOLD MEIROWSKY

OTOLARYNGOLOGY

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J. THOMAS BRYAN
LEE FARRAR CAYCEMARVIN McTYREIRE CULLOM
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July 1, 1956—June 30, 1957

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REGINALD J. PHILLIPS, JR. (Veterans Administration Hospital)

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EDWIN LEA WILLIAMS

*On leave of absence for military duty.

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HORACE G. BRAMM

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VIRGINIA KIRK

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ROBERT M. REED

NAT T. WINSTON

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JOHN B. THOMISON

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SAMUEL H. PAPLANUS

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SIGRID J. NELIUS

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JOANNE L. LINN

E. PALMER JONES

HARRY T. MOORE, JR.

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JEANNINE CLASSEN

JAMES B. ZICKLER

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MARION ANDREW CARNES

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 F. TREMAINE BILLINGS, *Associate Chief of Clinic*
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 JAMES N. THOMASSON, *Assistant Chief of Clinic*

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ALBERT WEINSTEIN, *Chief*

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BERTRAM E. SPROFKIN

DERMATOLOGY

ROBERT N. BUCHANAN, *Chief of Dermatology Clinic*

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FRANK G. WITHERSPOON

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WILLIAM F. ORR, *Psychiatrist-in-Chief*OTTO BILLIG, *Chief of Clinic*

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HUBERT H. BLAKEY	FRANK H. LUTON
HENRY B. BRACKIN, JR.	CYRIL J. RUILMAN
H. JAMES CRECRAFT	CHARLES B. SMITH
ROBERT M. FOOTE	FRANK W. STEVENS

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	WARREN W. WEBB

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H. WILLIAM SCOTT, JR., *Surgeon-in-Chief*BENJAMIN F. BYRD, JR., *Chief of Surgical Outpatient Service*

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ROBERT N. SADLER, *Chief of Clinic*

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STANLEY BERNARD	JACKSON P. LOWE
CLOYCE F. BRADLEY	JERE W. LOWE
WILLIAM R. CATE, JR.	ROBERT L. MCCrackEN
ROLLIN A. DANIEL, JR.	M. CHARLES McMURRY
WALTER DIVELEY	BARTON McSWAIN
BEVERLY DOUGLAS	JAMES ANDREW MAYER
GEORGE DUNCAN	OSCAR NOEL
PARKER D. ELROD	DAVID R. PICKENS, JR.
JOHN L. FARRINGER, JR.	GREER RICKETSON
SAM Y. GARRETT	DOUGLAS H. RIDDELL
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HERSCHEL A. GRAVES	HARRISON H. SHOULDERS, JR.
ROY G. HAMMONDS	KIRKLAND W. TODD, JR.
LYNWOOD HERRINGTON, JR.	MICHAEL G. WEIDNER
GEORGE W. HOLCOMB	BERNARD M. WEINSTEIN

**On leave of absence.

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EUGENE M. REGEN, *Chief of Clinic*

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DON L. EYLER	J. WILLIAM HILLMAN
S. BENJAMIN FOWLER	THOMAS F. PARRISH
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HORACE C. GAYDEN	ROBERT E. McCLELLAN
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VISITING SURGEONS

MORRIS ADAIR	LEE FARRAR CAYCE
J. THOMAS BRYAN	HERBERT DUNCAN
WILLIAM G. KENNON, JR.	

DENTAL SURGERY

ROBERT B. BOGLE, *Chief of Clinic*

VISITING SURGEONS

JAMES B. BAYLOR	EDWARD H. MARTIN
E. THOMAS CARNEY	FRED M. MEDWEDEFF
ELMORE HILL	FELICE PETRUCCELLI
MAX V. SIGAL	

PEDIATRICS

AMOS CHRISTIE, *Pediatrician-in-Chief*

VISITING PEDIATRICIANS

O. RANDOLPH BATSON	HARRIS D. RILEY, JR.
LUTHER A. BEAZLEY	DAN S. SANDERS, JR.
LINDSAY K. BISHOP	GORDON RENNICK SELL
HEARN G. BRADLEY	SARAH H. SELL
T. FORT BRIDGES	MILDRED STAHLMAN
NORMAN M. CASSELL	JOE M. STRAYHORN
ISABELLA S. COLLINS	RICHARD P. TABER
RAY L. DUBUISSON	WILLIAM O. VAUGHAN
PHILIP C. ELLIOTT	WILLIAM BROWN WADLINGTON
HARRY M. ESTES	ETHEL WALKER
LEONARD J. KOENIG	THOMAS S. WEAVER
SOL L. LOWENSTEIN	ERLE E. WILKINSON
JAMES C. OVERALL	CALVIN W. WOODRUFF
	THOMAS B. ZERFOSS, JR.

OPHTHALMOLOGY

HENRY CARROLL SMITH, *Ophthalmologist-in-Chief*
 FOWLER HOLLABAUGH, *Chief of Clinic*

VISITING OPHTHALMOLOGISTS

GEORGE W. BOUNDS	PHILIP L. LYLE
MARVIN M. CULLOM	N. B. MORRIS
L. ROWE DRIVER	RALPH RICE
ALLEN LAWRENCE	KATE SAVAGE ZERFOSS

OBSTETRICS AND GYNECOLOGY

FRANK E. WHITACRE, *Obstetrician and Gynecologist-in-Chief*
 LUCIUS EDWARD BURCH, *Senior Obstetrician and Gynecologist*

Obstetrics

D. SCOTT BAYER, *Chief of Obstetrical Clinic*

VISITING OBSTETRICIANS

JOSEPH D. ANDERSON	WILLIAM J. MCGANITY
W. BUSH ANDERSON	*HOWARD E. MORGAN
RUSSELL T. BIRMINGHAM	HOMER M. PACE
JOHN C. BURCH	ROY W. PARKER
JOHN SMITH CAYCE	ROBERT C. PATTERSON, JR.
ROBERT L. CHALFANT	C. GORDON PEERMAN
EVERETT M. CLAYTON, JR.	SIDNEY C. REICHMAN
SAM C. COWAN	HOUSTON SARRATT
SAM C. COWAN, JR.	RICHARD C. STUNTZ
GEORGE B. CRAFTON	WILLIAM D. SUMPTER, JR.
RAPHAEL S. DUKE	ARTHUR SUTHERLAND
JAMES W. ELLIS	WILLARD O. TIRRILL, JR.
HAMILTON GAYDEN	ALLEN E. VAN NESS
B. K. HIBBETT, III	THOMAS F. WARDER
CHARLES H. HUDDLESTON	PAUL L. WARNER
MILTON S. LEWIS	CLAIBORNE WILLIAMS
G. SYDNEY McCLELLAN	EDWIN LEA WILLIAMS

Gynecology

CLAIBORNE WILLIAMS, *Chief of Gynecological Clinic*

VISITING GYNECOLOGISTS

JOSEPH D. ANDERSON	G. SYDNEY McCLELLAN
D. SCOTT BAYER	WILLIAM J. MCGANITY
RUSSELL T. BIRMINGHAM	CARL S. McMURRAY
JOHN C. BURCH	*HOWARD E. MORGAN
ROBERT L. CHALFANT	HOMER M. PACE
EVERETT M. CLAYTON, JR.	ROY W. PARKER
SAM C. COWAN, JR.	C. GORDON PEERMAN
GEORGE B. CRAFTON	HOUSTON SARRATT
RAPHAEL S. DUKE	DOUGLAS SEWARD
JAMES W. ELLIS	RICHARD C. STUNTZ
HAMILTON GAYDEN	WILLIAM D. SUMPTER, JR.
B. K. HIBBETT, III	ARTHUR SUTHERLAND
CHARLES H. HUDDLESTON	WILLARD O. TIRRILL, JR.
ROLAND LAMB	HARLIN TUCKER
HORACE T. LAVELY, JR.	THOMAS F. WARDER
	EDWIN LEA WILLIAMS

*On leave of absence for military duty.

GENERAL INFORMATION

HISTORY

Vanderbilt University first granted the degree of Doctor of Medicine in 1875. In 1895 a complete reorganization of the Medical School was undertaken, and the University erected a building on the corner of Elm Street and Fifth Avenue, South, which was considered at that time an adequate and modern medical school plant. The grounds and facilities of the Medical School were greatly extended in 1911 by the purchase of the campus and buildings of the George Peabody College for Teachers, this purchase having been made possible through the generous contribution of Mr. W. K. Vanderbilt for this purpose.

In May, 1913, Mr. Andrew Carnegie contributed \$200,000 to the University to be used for the erection and equipment of a building for the laboratories of the Medical School, and later gave \$800,000 as endowment of the School. The funds for the laboratory building were not used for building purposes at the time of the gift, but have been expended in erecting the part of the new Medical School plant which is designated as the Carnegie Building.

In 1915 Mr. William Litterer, capitalist of Nashville, donated to the University the former medical building of the University of Nashville. This building contained a large assembly hall, class rooms and laboratories of bacteriology and anatomy, and added much to the facilities of the School. This gift is commemorated in the new buildings by a tablet which designates the space devoted to bacteriology as The Litterer Laboratory.

In view of the past record of the School and in view of the favorable location of Nashville as an educational and medical center, Vanderbilt University was selected by the General Education Board of New York as offering an excellent opportunity for the development of medical education, especially in the Southern States. Accordingly in 1919 this Board appropriated the sum of \$4,000,000 to enable the University to effect a complete reorganization of its School of Medicine in accordance with the most exacting demands of modern medical education. The medical faculty entered into this project with a spirit of eager cooperation.

At this time the directors of the Galloway Memorial Hospital deeded to the University its unfinished hospital building located adjacent to the School of Medicine, which represented an expenditure of about \$250,000. Plans were then drawn for completing this hos-

pital building and for making it part of a larger plant for the School of Medicine.

In June, 1921, after careful study, the program for the new medical plant was modified by the action of the Board of Trust, as it became evident that much was to be gained by uniting the School of Medicine with the rest of the University. It was decided, therefore, to construct an entirely new plant on the main campus of the University, and to abandon the developments on the South Campus. This proposition had been considered many times in past years, but had always been abandoned because of lack of means. At this time, however, the advisability of the move was generally recognized, and it became possible by the active cooperation of the Carnegie Corporation and the General Education Board. By the action of this latter body the University authorities were permitted to use what was needed of the initial appropriation of \$4,000,000 for the erection of a medical school and hospital on the West Campus. The General Education Board and the Carnegie Corporation then united, each giving half of \$3,000,000 to provide additional endowment for the School of Medicine for its operation in the new plant.

The new plant, consisting of a hospital, laboratories for all departments, a school of nursing and power plant, was erected and equipped at a cost of approximately \$3,500,000. The new plant was put into operation in September, 1925. There remains of the original Carnegie gifts and the appropriations by the General Education Board and the Carnegie Corporation a sum of \$5,000,000 for endowment of the School of Medicine and of the Vanderbilt University Hospital. During the period of reorganization of the School, other needs not fully provided for became apparent which were met by further appropriations running over a period of years by the General Education Board and the Carnegie Corporation.

When the new plant was nearing completion an appropriation of \$100,000 was made to the University by the Rockefeller Foundation, to be used over a period of five years for the purpose of furthering the development of nursing education. This sum places the Vanderbilt University School of Nursing on a sound educational basis, comparable to that of the School of Medicine, with which it is closely coordinated.

In the spring of 1929, the General Education Board made a donation of \$2,000,000 for additional endowment of the School of Medicine, thus replacing with permanent endowment a series of annual grants to the individual departments of the institution. This was increased on July 1, 1929, by further donations of \$1,500,000 for endowment of the School of Medicine, and of \$4,000,000 for endowment

of the Vanderbilt University Hospital. The result of these additional appropriations is a permanent endowment brought about through the capitalization of a series of annual income grants. On July 1, 1935, the secretary of the General Education Board notified university authorities that an additional grant of \$2,500,000 had been made for the Vanderbilt University Hospital and Medical School, \$1,000,000 of which was used in the construction of an addition to the Hospital and School of Medicine building and \$1,500,000 for additional endowment.

BUILDINGS

The building of the School of Medicine is located in the southeast corner of the University Campus. It is constructed in the collegiate Gothic Style, the structure being of concrete with brick and limestone walls. The floor area is approximately 450,000 square feet. The building is in reality a series of buildings brought together so that they are all under one roof. The laboratories of the various departments of the School of Medicine are grouped about two courts on the north side. The entrance to the Medical School is in the center of the east court through the arch of the new Graduate Science Building. The building on the east side of this court is designated as the Carnegie Building, and contains the laboratories of biochemistry, pharmacology and physiology, one floor being devoted to each of these subjects. The building on the west side of the court contains the laboratories of gross and microscopic anatomy, of pathology, and of bacteriology. In the building forming the south side of the court are the administrative offices of the school, large student laboratories, the laboratory of surgical pathology and the surgical operating rooms of the hospital.

Around the west court are other laboratories of the Medical School. In the building forming the south side of this court are the offices and laboratories of the Department of Obstetrics and Gynecology, and the Department of Pediatrics; on the fourth floor are the delivery rooms of the hospital. The building on the west side of this court is occupied by the Department of Preventive Medicine and Public Health and the office of the Dean of the School of Medicine.

Around two other open courts, similar in size and proportions to the Medical School courts, but opening toward the south, are the hospital wards and an extensive outpatient department. The building on the west side of the first court, containing the surgical portion of the Hospital, is designated as the Galloway Building, and commemorates the donations made to the Galloway Memorial Hospital which have contributed toward the erection of the new medical plant.

The building forming the north side of the second court is occupied by the Outpatient Service for Obstetrics and Gynecology; the X-Ray Department and a hospital ward. The building on the west side of this court contains the entrance to the private pavilions, an isolation unit for Pediatrics and the newborn nursery which includes facilities for the care of premature babies.

The large central unit which forms the west front of the building, is eight stories in height and contains the teaching beds for Gynecology, Pediatrics, Obstetrics, and three private pavilions for general services. On the eighth floor are house staff quarters.

The two wings connecting the buildings of the north and the South courts contain laboratories, lecture rooms and the library, and form the connecting links between the Hospital and the Medical School. Laboratories in these buildings are arranged especially for the use of the clinical departments of the School. Another building extending toward the east from the main structure and facing on the Hillsboro Road contains the entrance to the Hospital and its administrative offices, the Department of Psychiatry, the main cafeteria and kitchens, and on the top floor two wards, one for psychiatric patients and the other for general services. The Hospital contains 422 beds, including 52 bassinets.

Attached to the two north wings of the building is the Learned Graduate Science Laboratory which is to provide laboratory space for medical scientists and the biologists, chemists, and physicists of the Graduate School. The advantage of such an arrangement is that under one roof investigators from varied disciplines in medical and natural science fields may interchange ideas and collaborate in research.

Also attached to the north wing, on the west side, is the S. R. Light Laboratory for Surgical Research which in addition to furnishing facilities primarily for surgical research has research areas for related fields and houses the experimental animals for the School of Medicine.

At the corner of Twenty-first and Garland Avenues, across the street from the Medical School-Hospital building, is the new Vanderbilt Office Building, built to provide convenient office space for the part-time clinical members of the faculty.

The entire plant is so arranged that there is free communication between the various departments of the School and the Hospital, and the library, with its spacious reading room, is in the center of the building. The Medical School is arranged to accommodate two hundred students.

The building for the School of Nursing is in conformity with the building of the Medical School. It is directly north of the Medical School building, facing Hillsboro Road.

The power house is located on the west side of the campus, facing Twenty-fourth Avenue. In addition to the steam plant and electrical equipment, the power house contains the hospital laundry.

ALUMNI MEMORIAL HALL

The Alumni Memorial Hall was erected during 1924 and 1925 through contributions by the alumni and their friends as a monument to the Vanderbilt men who fell in the World War. It is a handsome building in the collegiate Gothic Style designed chiefly as a center of the social life of the University. It contains a memorial hall, lounging, reading and recreation rooms, a small auditorium and offices for various students activities. The offices of the Alumni Association, the Vanderbilt Development Foundation, and Information and Publications are in this building. There is also a club room for the members of the faculty.

FACILITIES OF INSTRUCTION

The buildings of the School of Medicine contain all the necessary departments, facilities and equipment for the teaching of all subjects contained in the medical curriculum and for conducting a modern hospital. The laboratory and clinical facilities are closely co-ordinated, with the purpose that there shall be a ready flow of ideas between the laboratories of the medical sciences and the wards and outpatient service. Teaching laboratories, especially designed for their respective uses, are provided for gross and microscopic anatomy, biochemistry, physiology, bacteriology, pathology, pharmacology, preventive medicine, and for the clinical departments.

There are also a number of lecture rooms equipped with projection apparatus and other modern accessories for teaching, as well as an amphitheater for clinical demonstrations which can accommodate practically the entire student body. Besides meeting the needs fully for the usual type of medical instruction, each department is provided with accommodations for advanced students and research workers.

The Hospital consists of fourteen units of from 18 to 30 beds. These units are designed for the following uses: one unit for male medical cases, one for female medical cases; one for male surgical cases, one for female surgical cases; one unit for ophthalmology; one unit for gynecology; one unit for obstetrics; one unit for pediatrics, with subsidiary unit for isolation; one unit for general psychiatric

cases; four units for private general cases, and one unit for male and female Negro patients. The entire Hospital is staffed by members of the faculty of the School of Medicine.

Adjoining the wards of the Hospital there are laboratories equipped for the more generally used diagnostic laboratory procedures in which students perform the various tests and examinations which the cases assigned to them may require. Each ward laboratory is provided with lockers for the microscopes and other instruments the students are required to own.

The Outpatient Service occupies the entire first floor of the southern portion of the building. It is especially designed for teaching and contains a series of examining, treatment and teaching rooms for general medicine and surgery, pediatrics, neurology, dermatology, psychiatry, dentistry, orthopedic surgery, ophthalmology, otolaryngology, obstetrics, gynecology, and urology. A waiting room adjoins each department, and several small clinical laboratories are placed in convenient locations.

The Department of Radiology, equipped for fluoroscopic examinations, the making of radiograms, X-ray treatment, and for demonstration and study of radiograms is conveniently located with respect to the Outpatient Service and Hospital beds.

The surgical operating rooms are placed over the central portion of the Medical School court, facing north. There are nine operating rooms. Seven of these are air-conditioned and include one especially designed for urological surgery, one for orthopedic surgery, two for otolaryngology and ophthalmology, and three for general surgery. Two operating rooms are especially equipped for gynecological surgery. There are three delivery rooms with the necessary complement of preparation and labor rooms. These facilities are located on the same floor and in immediate proximity to the main obstetrical ward. A room for students is provided on the operating rooms floor.

Besides the clinical facilities offered by the wards and outpatient service of the University Hospital, the School of Medicine has clinical privileges at the Central State Hospital for the Insane. Vanderbilt through a Dean's Committee is affiliated with Thayer General, a seven hundred bed Veteran's Administration Hospital, and its postgraduate training program, and has available its facilities for undergraduate teaching.

MEDICAL LIBRARY

ELEANOR G. STEINKE, *Librarian*

EILEEN R. CUNNINGHAM, *Librarian Emeritus and Professor Emeritus of Medical Library Science*

MARIE HARVIN, *Assistant Librarian*

LEIGH BLACKSTONE, *First Assistant*

SHIRLEY BOND, *Assistant*

BERNICE B. SALLY, *Secretary*

The Library of the Vanderbilt School of Medicine was founded in 1906 and was located in the Medical School Building on the South Campus. A year later the Nashville Academy of Medicine made a gift to the Vanderbilt Medical School 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.

In 1924-25 the Library was moved to its present location in the Hospital building and it has been the recipient of various 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 many important reference works and bibliographic indexes.

The Library contained on May 1, 1956, 62,501 volumes and received 915 current periodicals and serial publications including all of the annual and statistical reports put out by the various state departments of health as well as all of the federal documents relating to health.

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 is being constantly increased, and 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 685,154 volumes as of May 1, 1956.

Well trained librarians are on hand to render aid in the reading room and 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

material 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 timed 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. Assignments are given during this Library training which require practical use of the materials available.

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 during the academic year from 8:15 A.M. to 6:00 P.M. and 7:00 to 10:00 P.M. Monday through Friday; from 8:15 A.M. to 4:30 P.M. on Saturday, and 2:00 to 5:00 P.M. on Sunday. During the summer quarter the Library is open from 8:30 A.M. to 6:00 P.M., Monday through Friday; 7:00 P.M. to 9:00 P.M., Monday, Wednesday and Friday; and from 8:30 A.M. to 1:00 P.M., on Saturday.

REQUIREMENTS FOR 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 of recognized standing who will be granted the Bachelor's degree by their colleges after having completed successfully one year of the work in the School of Medicine. A properly accredited statement to 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.

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 eight semester hours, of which four must consist of 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 total of twelve semester hours are required. Eight of these must be in general inorganic chemistry and must include four semester hours of laboratory work. There must also be presented four semester hours credit for organic chemistry covering both aliphatic and aromatic compounds and including two hours of laboratory work.

3. *Physics*.—Eight semester hours are required, of which at least two shall be 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 medical school 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 science and mathematics and their cultural background.

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

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 annually 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 the fall before the year in which they wish to enter medical school.

The scholastic record, together with the 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 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.

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, it is not returnable.

Application forms may be obtained by applying to the Registrar, School of Medicine, Vanderbilt University, Nashville 5, Tennessee. A check or P. O. money order for \$5.00, payable to the School of Medicine, Vanderbilt University, must accompany each application when it is submitted. This is not returnable.

REGISTRATION

All students are required to register and to pay the fees for the fall quarter at the opening of the session and the remainder in equal installments at the beginning of the winter and spring quarters.

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.

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

THE MEDICAL-SCIENTIFIC COURSE OF THE COLLEGE OF ARTS AND SCIENCE

In order to meet fully the requirements for entrance to Medicine, but at the same time to retain the cultural value of academic work and yet effect a saving of a year, the College offers the Medical-Scientific Course covering three years. Students who have satisfactorily completed the above course and whose applications for admission to the School of Medicine have been officially accepted will be given thirty-six term hours' credit toward the Bachelor's degree, upon the completion of the first-year course in medicine.

Students desiring information in regard to this course should write to the Dean, College of Arts and Science, Vanderbilt University.

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 satisfactorily completed 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.

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, Clinical Pathology.

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

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

No grades regarding their relative scholastic standing are 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 at the discretion of the Executive Faculty be requested to withdraw from the school at any time.

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

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.

ELECTIVE WORK

Students are urged to take elective work including research problems. Such opportunities will be readily available in all departments and will be made by special arrangement.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character. They must have spent at least four years of study as matriculated medical students, the last two of which must have been in this School. They must have satisfactorily completed all the required courses of the medical curriculum, have passed all prescribed examinations, and be free of indebtedness to the University. At the end of the fourth year every student who has fulfilled these requirements will be recommended for the degree of Doctor of Medicine.

FEES AND EXPENSES

Application Fee (To accompany Application Form).....	\$ 5.00
Tuition Fee for the Academic Year.....	800.00
This fee is payable in equal installments, at the beginning of each term.	
An arrearage in tuition for any session must be paid before admission to the succeeding session.	
Contingent Deposit.....	10.00
This deposit will be required of freshmen and sophomores to cover breakage of apparatus and damage to buildings, and will be returned, less the charges, at the close of each academic year.	
Breakage Fee.....	10.00
This fee will be required of all juniors and seniors at the beginning of each academic year and is not returnable.	
Diploma Fee, charged to graduating students, payable during the third quarter.....	10.00
Rental fee for cap, gown and hood, charged to graduating students, payable during the third quarter.....	7.50

First-year medical students, who are also senior in absentia students at Vanderbilt University, are required by the College of Arts and Science of Vanderbilt to pay a \$30 senior in absentia fee.

Students who register for the regular courses in this 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 will, if they later become candidates for the Doctor of Medicine degree, be required to pay the full tuition as indicated above.

The average annual expenses of a student in the School of Medicine, exclusive of clothes and incidentals but including living accommodations (q.v.), are estimated as amounting to approximately \$1,200 to \$1,400.

MICROSCOPES, BOOKS, APPARATUS, ETC.

Each student is required to possess a standard, four objective microscope, equipped with a substage light.

The necessary or desirable books cost about \$50 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 beginning of the second quarter of the second year.

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

No rebate of tuition fees can be obtained for absence, except in cases of illness certified by a physician.

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, may not claim and 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.

LIVING ACCOMMODATIONS

The residence halls at Vanderbilt are an integral part of the educational facilities of the University. The University believes that by providing the best possible living accommodations and adequate supervision, each student will have the opportunity to grow and develop his potentialities as an individual and as a citizen of his community. The residence hall is a center for dynamic education, for group participation, and for individual adjustment to university life. Every effort is made to create an atmosphere of respect for others and of pride in surroundings, to foster stable standards of conduct, and to provide for harmonious group life.

Students are not received for less time than one term, and the charge for one week is the same as for the whole term.¹ 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, may not claim and are not entitled to any return or repayment of room rent or any other regular charges or assessments, and the University will not be liable for the return or refund of same.

¹Rental charges are made by the term, which is one third of the regular school year. Any student in the Medical School not returning at the end of the first term will be entitled to a pro rata refund on rental charges made for the second term.

ROOMS FOR MEN

A room may be reserved by application to the office of the Dean of Students. A room reservation deposit of \$25.00 is required at the time of assignment. 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.

Rooms may be occupied on the day before the opening of the session and through the last day of the term. Plain furniture is provided by the University. The occupant is responsible for the condition of furniture and room and is charged with all damage.

Single and double rooms are available to students in the graduate and professional schools in Wesley Hall, and at 2317 West End. Residents furnish their own sheets, pillow cases, blankets, and towels. All rent is payable in advance by the term at the office of the Bursar.

Wesley Hall—This hall is located adjacent to the east side of the campus. Both single and double rooms are available in this building. The rates for single rooms are \$50.00 and \$55.50 per person per term; rates for double rooms range from \$47.50 to \$65.00 per person per term.

West End—This residence, located on the southwest corner of the campus, is available for the housing of medical students. Both single and double rooms are available. The rental rate is \$50.00 per person per term.

HOUSING FOR FAMILIES

A limited number of efficiency apartments are available for married students who are veterans. Applications may be made in the office of the Dean of Students. Assignments are made on a priority basis by the term. It is understood when assignments are made that an assignee is 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 (30) days notice of intention to vacate. The University reserves the right to require occupants to vacate the apartment at any time and for any reason, a reasonable notice having been given.

Garland Apartments—Located at 2123 Garland Avenue near the south entrance to the campus, this group of buildings has two types of apartments, the basic and the expanded. The former includes a combination living-sleeping room, a dining-kitchen alcove,

a shower bath, and a closet. The expanded unit has an additional bedroom. Fuel for unit heating, cooking, and hot water, electricity for lighting, and the use of furniture are included in the rental prices of \$45.00 and \$57.00 per month, payable in advance.

In so far as possible students will be assigned to the rooms and apartments that are under University management. A list of rooms and apartments located in the vicinity of the University is maintained in the office of the Dean of Students for those who cannot be accommodated in University housing.

UNIVERSITY DINING FACILITIES

A cafeteria is maintained by the University Hospital and is available to medical students. It is conveniently located in the Hospital building.

Facilities are available also for men students to have their meals in the University Dining Room, located in the Frank C. Rand Dining Hall. Board is available either by the meal or by the term at reasonable rates. Students are advised to engage board by the term. This may be done at the Bursar's office.

MEDICAL FRATERNITIES

There are two medical fraternities with chapters at Vanderbilt, Alpha Kappa Kappa and Phi Chi. A large number of the men enjoy the advantages of living together in these fraternity houses. They meet the same standards of inspection that are required of the University's housing arrangements. Room and board in these houses is around \$65 per month.

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 Medical Honor Society was established by charter in the School of Medicine in 1923. Not more than one-fifth of the students of the senior 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.

American Academy of Dental Medicine Award—Established to further the correlation of dentistry and medicine and awarded to the fourth-year student showing the highest degree of interest and proficiency in dental medicine.

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 for the Insane at Nashville, is awarded to the student showing 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 shall be 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 for consideration to the Dean of the School of Medicine.

The Merrell Award in Pathology—Established in 1953 by the William S. Merrell Company, this award provides \$150 annually for the two most outstanding research papers by Vanderbilt University medical students in the field of Pathology, regardless of subject matter. 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 their publication "Progress Notes." The authors are free to publish their papers in any recognized medical or scientific journal. The selection of the paper is made by the Dean or by a committee appointed by him for that purpose. 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.

The G. Canby Robinson Award (Lasker Foundation)—Mrs. Albert D. Lasker of the Albert and Mary Lasker Foundation provides a prize of \$250.00 designated The G. Canby Robinson Award (Lasker Foundation) for the best clinical history recorded by a third-year student. It has been agreed that these histories will be restricted to internal medicine and psychiatry and that the award will be announced by the Chancellor at the commencement exercises.

SCHOLARSHIPS AND MEMORIAL FUNDS

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." The recipient is selected by the Dean of the School of Medicine and the Registrar of Vanderbilt University.

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 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.

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.

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.

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.

Howard Hughes Fellowships—Funds provided by Mr. Howard Hughes for research fellowships in microbiology, physiology and clinical physiology.

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 JOE AND MORRIS WERTHAN CHAIR OF EXPERIMENTAL MEDICINE

Through the generosity of the Werthan family of Nashville, Tennessee, and their admirable appreciation of the benefits to be obtained from medical science, the Joe and Morris Werthan Chair of Experimental Medicine was established in 1951 for the purpose of furthering research in the general field of internal medicine. The present holder of the Chair is Dr. Elliot V. Newman.

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 his 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 fifty thousand dollars 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 and the most recent series was given in the winter of 1956.

The William D. Haggard Memorial Lecture—This lectureship was established in 1940 by the Nashville Chapter of the Alpha Kappa Kappa Medical Fraternity in honor of Dr. William D. Haggard who was a distinguished member of the fraternity. This lecture is given under the auspices of the faculty of the School of Medicine. 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.

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. Greta 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 Glenn A. Millikan Memorial Lecture was given in 1948.

The Cobb Pilcher Memorial Lecture—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 Cobb Pilcher Memorial Lecture was given in 1950.

THE VANDERBILT MEDICAL SOCIETY

The 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 1956-1957 are Dr. Allan D. Bass, President, and Dr. William J. McGanity, Secretary.

THE VANDERBILT SOCIETY OF HISTORICAL MEDICINE

This society was organized by the class of 1953 for the purpose of fostering the exchange of information concerning the events and personalities in the history of medicine and stimulating an interest in it among the faculty and student body of the School of Medicine. Membership is open to students in the last two years of medicine. Honorary membership is open also to the Medical School faculty. Monthly meetings are held at which time papers related to the history of medicine are presented.

HONOR SYSTEM

All examination work in this University is conducted under the Honor System.

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 system, 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.

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 possibly to become prejudicial to the student's satisfactory scholastic accomplishment and education, he may be required to discontinue it.

STUDENT HEALTH SERVICE

All members of the first-year class and all students transferring from other institutions are required to undergo a thorough physical examination within two weeks after the date of admission. This examination is made by the staff of the University Student Health Service. Records of these examinations are kept, and students are advised concerning their physical condition and general health. Facilities of the Student Health Service are available to any student who feels in any way indisposed. Thomas B. Zerfoss, M.D., is physician to the students.

The facilities of the gymnasium in Wesley Hall, which include swimming, handball, basketball, tennis, physical exercises, etc., are available to medical students. A fee of \$5 a trimester is charged by the University.

GENERAL PLAN OF INSTRUCTION

The first academic year is divided into two semesters of sixteen weeks each. The second, third and fourth years are divided into three quarters of eleven weeks each and there is an additional period of four weeks at the end of the second year. During the third and fourth years the students are responsible for recording the thorough study of patients assigned to them.

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.*

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 fourth 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 Out-patient Service which he follows throughout his four 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 instructor and a social worker. 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.

Also during the fourth year there is given a series of lectures on the relation of medicine, medical practice, and the doctor to society.

COURSES OFFERED TO CANDIDATES FOR GRADUATE DEGREES

Candidates registered for Graduate Instruction in the University 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. Graduate work in the Medical Sciences is regulated by the faculty of the Graduate School of the University. 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 for admission to studies leading to graduate degrees should apply to the Registrar, School of Medicine, Vanderbilt University, Nashville 5, Tennessee.

COURSES OF INSTRUCTION

Courses that are numbered 420 or above may be taken under conditions stated on page 70 as meeting part of the requirements for a graduate degree. Numbering coincides with that in the Graduate School bulletin.

ANATOMY

SAM L. CLARK, *Professor of Anatomy and Head of the Department*

JAMES W. WARD, *Associate Professor of Anatomy*

VIRGIL S. LEQUIRE, *Assistant Professor of Anatomy*

DON L. EYLER, *Instructor in Anatomy*

STANLEY BERNARD, *Instructor in Anatomy*

WILLIAM McLEAN CLARK, *Instructor in Anatomy*

LUKE H. MONTGOMERY, *Research Assistant in Anatomy*

Courses of instruction are provided in histology, neurology and gross human anatomy, and opportunities are offered for advanced work and investigation in these sciences.

Physicians and properly qualified students, not candidates for the medical degree, may be admitted to any of the courses by special arrangements with the instructors and may undertake advanced work and original research.

421. 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. Twenty-seven hours a week during the first semester of the first year. Dr. Clark and Staff.

422. HISTOLOGY.—This course is devoted to giving 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. Twelve hours a week during the fall quarter of the first year. Dr. Ward and Staff.

423. 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 connections of cerebrospinal and autonomic nerves and ganglia, and the histology of the organs of special sense. Twelve hours a week for five weeks at the end of the first semester of the first year. Dr. Clark and Staff.

524. ADVANCED NEUROLOGY.—Using the work of the first year as a basis, 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 and 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. Five hours a week during the winter quarter of the second year. Dr. Ward and Staff.

527. *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. Clark and Dr. Ward.

528. *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 interrelationships. Hours and credit by arrangement. Dr. LeQuire.

550. *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. Clark and Staff.

BIOCHEMISTRY

WILLIAM J. DARBY, *Professor of Biochemistry and Head of the Department, and Director of Division of Nutrition*

CHARLES SUMMERS ROBINSON, *Professor Emeritus of Biochemistry*

FRANK R. BLOOD, *Professor of Biochemistry*

ANN STONE MINOT, *Professor of Biochemistry (Director of the Clinical Chemical Laboratory)*

JOHN G. CONIGLIO, *Associate Professor of Biochemistry*

OSCAR TOUSTER, *Associate Professor of Biochemistry*

*NORMAN S. OLSEN, *Associate Professor of Biochemistry*

EMILY J. BELL, *Assistant Professor of Biochemistry*

LEON W. CUNNINGHAM, *Assistant Professor of Biochemistry*

WILLIAM N. PEARSON, *Assistant Professor of Biochemistry*

*GUILFORD G. RUDOLPH, *Assistant Professor of Biochemistry*

*MILES L. DOYLE, *Instructor in Biochemistry*

KRISHNA P. MISRA, *Instructor in Biochemistry*

*JANET L. STONE, *Instructor in Biochemistry*

*Serve part time in the Department.

EILEEN BRODOVSKY, *Assistant in Biochemistry*
WILLARD FAULKNER, *Assistant in Biochemistry*
HELEN ELIZABETH FRANK, *Assistant in Biochemistry*
DONALD B. MCCORMICK, *Assistant in Biochemistry*
DONALD MAYBERRY, *Assistant in Biochemistry*
RUTH HUTCHESON MAYBERRY, *Assistant in Biochemistry*

421. *BIOCHEMISTRY*.—This is 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. Dr. Darby and Staff.

422. *LABORATORY WORK IN BIOCHEMISTRY*.—This course is designed to accompany course 421. Together they satisfy the requirements for the medical course. 16 hours a week for 16 weeks during second semester of the first year. Dr. Darby and Staff.

429. *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. Dr. Minot.

523. *Special Problems and Experimental Techniques*.—Open to a limited number of properly qualified students. Admission to course, hours and credit by arrangement (2-5). Staff. Among the fields of interest available are: (a) Advanced work using radioactive isotopes, Dr. Coniglio; (b) The synthesis and metabolism of carbohydrates and amino acids, Dr. Touster; (c) The physical chemistry of proteins, Dr. Cunningham.

524. *Use of Radioactive Tracers in Metabolism*.—An elementary course in which are discussed both theory and practice of the application of radioactive isotopes to problems of metabolism. Emphasis is on laboratory techniques and includes experiments on properties of radiations, methods of measurement, and metabolic studies using radioisotopes. Two lectures and one 3-hour laboratory per week (3). Prerequisite: Permission of the instructor. Fall, alternate years. Dr. Coniglio.

525. *Micro Physiologic Techniques in Biochemistry*.—A course designed to give experience in the application of micro techniques of mammalian physiology to biochemistry. Lectures and laboratory. Prerequisites: a laboratory course in biochemistry; hours and credit by arrangement. Alternate fall terms (2-5). Dr. Blood.

526. *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: Chemistry 422 or permission of the instructor. 3 lectures one term (3). To be offered on alternate years with 531. Fall, Dr. Touster.

527. *Seminar in Biochemical Literature*.—Admission to course by arrangement. Prerequisite: a course in fundamental biochemistry. Monday at 4:00 p.m., fall, winter and spring quarters. (1) Staff.

528. *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 during the spring quarter. (2) M. F., 11:00 a.m. Dr. Darby and Staff of the Division of Nutrition.

530. *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. Dr. Minot.

531. *Fundamentals of Biochemistry*.—A basic course for students in the biological sciences. Prerequisite: Chemistry 421 or equivalent. 3 lectures and one three-hour laboratory period (4). To be offered on alternate years with 526. Dr. Touster.

532. *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 528. Admission by arrangement. Credit, 1-3 hours. Alternate spring terms. Dr. Darby and Staff of the Division of Nutrition.

550. *Research Work in Biochemistry*.—Admission to course, hours and credit by arrangement. Staff.

PHYSIOLOGY

CHARLES R. PARK, *Professor of Physiology and Head of the Department*

H. C. MENG, *Associate Professor of Physiology*

ROBERT L. POST, *Assistant Professor of Physiology*

JANE H. PARK, *Assistant Professor of Physiology*

MILDRED STAHLMAN, *Instructor in Physiology*

MURRAY HEIMBERG, *Instructor in Physiology*

521. *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 (12). Dr. Park and Staff.

522. *Physiological Techniques and Preparation*.—Hours and credit by arrangement. Dr. Park and Staff.

523. *Advanced Physiology*.—This course deals with special topics in Physiology and consists of laboratory work and conferences. Open to students who have had course 521 or its equivalent. Offered during the fall quarter. Credit and hours by arrangement. Dr. Park and Staff.

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

PATHOLOGY

JOHN L. SHAPIRO, *Professor of Pathology and Head of the Department*

ERNEST W. GOODPASTURE, *Professor Emeritus of Pathology*

JOHN B. THOMISON, *Assistant Professor of Pathology*

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

STEWART AUERBACH, *Associate Professor of Clinical Pathology*

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

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

SAMUEL HARRIS PAPLANUS, *Instructor in Pathology*

DAVID L. BEAVER, JR., *Assistant in Pathology*

GEORGE R. MAYFIELD, JR., *Assistant in Pathology*

SIGRID J. NELIUS, *Assistant in Pathology*

JAMES M. PHYTHON, *Assistant in Pathology*

521. 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 the post mortem examinations performed during the year.

Seventeen hours of lectures and laboratory work a week during the fall quarter and fifteen hours of lectures and laboratory work a week during the winter quarter of the second year. 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 fatal cases are

discussed, followed by an exposition and an explanation of the pathological changes that are discovered at autopsy.

One hour a week throughout the third and fourth years. Dr. Shapiro in conjunction with members of the clinical staff.

550. *Research*.—Opportunities for research are offered to properly qualified students. Hours and credit by arrangement.

MICROBIOLOGY

CHARLES C. RANDALL, *Professor of Microbiology, and Acting Head of the Department*

ROY C. AVERY, *Professor Emeritus of Bacteriology*

EVERETT C. BRACKEN, *Assistant Professor of Microbiology*

FRED W. RYDEN, *Assistant Professor of Microbiology*

WILLIAM MCCLINTOCK TODD, *Instructor in Microbiology*

GLENN A. GENTRY, *Assistant in Microbiology*

524. *MEDICAL MICROBIOLOGY*.—This course consists of lectures and laboratory work. The important bacterial, mycotic and viral infections, and parasitic diseases are considered from the standpoints of etiology, epidemiology, pathogenesis, immunology, and laboratory diagnosis.

Nineteen hours of lectures and laboratory work a week during the fall quarter and fifteen hours during first part of winter quarter of the second year. Dr. Randall and Staff.

527. *Experimental Methods in Microbiology*.—This course will be given to qualified graduate students. Hours and credit by arrangement. Dr. Randall and Staff.

528. *Advanced Work on the General Principles of Immunology*.—This course consists of studies related to the fundamental principles of immunology. Hours and credit by arrangement. Dr. Randall and Staff.

550. *Research*.—Opportunities for research are offered to properly qualified students. Hours and credit by arrangement.

PHARMACOLOGY

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

PAUL D. LAMSON, *Professor Emeritus of Pharmacology*

BENJAMIN H. ROBBINS, *Associate Professor of Pharmacology*

MILTON T. BUSH, *Associate Professor of Pharmacology*

WILLIAM C. HOLLAND, *Associate Professor of Pharmacology*
H. VASKEN APOSHIAN, *Assistant Professor of Pharmacology*
CLARA ELIZABETH DUNN, *Assistant Professor of Pharmacology*
LAWRENCE G. SCHULL, *Instructor in Pharmacology*
BETTY GRAY, *Research Assistant in Pharmacology*
DOROTHY ANN ALDRED, *Research Assistant in Pharmacology*
JAMES SETLIFF, *Research Assistant in Pharmacology*
JOSEPH AUDITORE, *Research Assistant in Pharmacology*

521. PHARMACOLOGY.—The course in Pharmacology consists of a series of lectures and conferences 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 are given in which the student has an opportunity to become familiar with pharmacological techniques. Six lectures and seven hours of laboratory work a week during the winter quarter of the second year. (Total hours 176) Dr. Bass and Staff.

522. INTRODUCTION TO ENZYMOLOGY AND ITS APPLICATION TO PHARMACOLOGY.—Lectures and seminars will be held for students interested in acquiring a knowledge of some of the fundamentals involved in intermediary metabolism. These will include a study of the general properties of the enzymes required for carbohydrate, protein and fat metabolism as well as the mechanism of action of certain drugs affecting normal enzyme systems. Pathological conditions will also be considered. Two lectures a week during the spring quarter. Hours to be arranged. Dr. Holland.

523. *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. Topics will include the relationship of chemical structure to pharmacological action, antimetabolites as pharmacological agents, cancer chemotherapy, and applications of physical chemistry to certain pharmacological problems. Hours by arrangement. (1 to 3). Dr. Bass and Staff.

530. SEMINAR IN PHARMACOLOGY. Admission to course by arrangement. (1). Staff.

550. *Research and Special Topics in Pharmacology*.—Hours and credit by arrangement. Dr. Bass and Staff.

PREVENTIVE MEDICINE AND PUBLIC HEALTH

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

- MARIAN E. RUSSELL, *Professor of Medical Social Service*
JOHN J. LENTZ, *Professor Emeritus of Preventive Medicine and Public Health*
ALVIN E. KELLER, *Associate Professor of Preventive Medicine and Public Health*
MARGARET PEARL MARTIN, *Associate Professor of Biostatistics*
LOUIS D. ZEIDBERG, *Associate Professor of Epidemiology*
R. H. HUTCHESON, *Associate Professor of Preventive Medicine and Public Health*
EDWIN BURWELL BRIDGFORTH, *Assistant Professor of Biostatistics*
LEE MASSEY CLARKSON, *Assistant Professor of Preventive Medicine and Public Health*
ROBERT M. FOOTE, *Assistant Professor of Preventive Medicine and Public Health*
ROYDON S. GASS, *Assistant Professor of Preventive Medicine and Public Health*
RICHARD O. CANNON, II, *Assistant Professor of Hospital Administration*
MARY RATTERMAN, *Assistant Professor of Psychiatric Social Service*
W. CARTER WILLIAMS, *Assistant Professor of Preventive Medicine and Public Health*
THOMAS B. ZERFOSS, *Assistant Professor of Preventive Medicine and Public Health*
WILDER WALTON HUBBARD, *Instructor in Preventive Medicine and Public Health*
CON O. T. BALL, *Instructor in Biostatistics*
MONROE F. BROWN, *Instructor in Preventive Medicine and Public Health*
JAMES GOLDSBERRY, *Instructor in Preventive Medicine and Public Health*
MIRIAM MCHANEY, *Instructor in Psychiatric Social Service*
LOUISA ROGERS, *Instructor in Medical Social Service*
CARL L. SEBELIUS, *Instructor in Preventive Medicine and Public Health*
C. B. TUCKER, *Instructor in Preventive Medicine and Public Health*
LAVERGNE WILLIAMS, *Instructor in Social Service*
RAYMOND R. CROWE, *Assistant in Preventive Medicine and Public Health*
WILLIAM B. FARRIS, *Assistant in Preventive Medicine and Public Health*

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

1. **MEDICAL STATISTICS.**—This course is designed to acquaint the student with the elements of statistical reasoning as applied to medical problems. Topics covered include: formulation of hypotheses for test; design for clinical and laboratory experiments; methods for collection and tabulation of data; analysis of experimental results, and interpretation in relation to hypotheses under test; methodology of short- and long-term medical studies; evaluation and uses 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. Dr. Martin, Mr. Bridgforth and Staff.

2. **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. Dr. Quinn, Dr. Zeidberg, Dr. Keller, Dr. Martin, Mr. Bridgforth and Staff.

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 with the Departments of Psychiatry and Preventive Medicine, and members of the Division of Medical Social Service holding faculty appointments, conducting 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 four 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 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, Professor of Psychiatry; Dr. Quinn, Professor of Preventive and Social Medicine; Miss Russell, Professor of Medical Social Service, and consultants.

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 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 whenever possible. One hour weekly during the fall and winter quarters. Dr. Quinn, Dr. Zeidberg, Dr. McDowell, and consultants.

SOCIAL AND ENVIRONMENTAL MEDICINE III.—The family care plan: Families currently assigned to first and second-year students attend the family clinic regularly. This clinic operates in conjunction with the well-baby clinic at the same time and place and is staffed by representatives of all of the clinical departments, preventive medicine, social service and nursing. Third and fourth-year students during their assignment to pediatrics will serve in the clinic, examine members of the family and participate in the case-conference seminars at the end 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. 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 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 required to consult with the clinicians. The staff assigned to 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. Dr. Quinn, Dr. Zeidberg and representatives from all 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 ills.

SOCIAL AND ENVIRONMENTAL MEDICINE IV.—The students assume more responsibility with respect to illness and medical problems, particularly for members of their families who may be patients in the hospital or outpatient service.

Once a week Dr. Quinn attends the medical outpatient service to teach preventive medicine to the fourth-year students using their clinic patients as teaching material.

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. Mr. Sanders.

MEDICINE AND SOCIETY.—This is a lecture course with a historical review of the development of medicine and medical practice in its relation to society, with discussion on medical ethics, doctor-patient and doctor-doctor relationships, medical economics, medical care plans and the place of medicine in modern society. One hour weekly in the spring quarter. Dr. Youmans.

401A. STATISTICAL METHODS FOR RESEARCH IN THE MEDICAL FIELDS.—An introductory course in statistics for medical investigators. Basic principles of statistics are covered, with orientation toward and examples taken from medical fields. Types of theoretical distributions of data; formulation of hypotheses; design of experiments; methods for collection, tabulation and analysis of data. Standard statistical tests (chi-square, t, F, nonparametric) are covered, with practice in computations. Winter. 1½ hours lecture, 1½ hours laboratory per week (2). Dr. Martin, Mr. Bridgforth and Staff.

401B. STATISTICAL METHODS FOR RESEARCH IN THE MEDICAL FIELDS.—Continuation of 401-A. Discussion of analysis and interpretation of experimental data are continued. Spring. 1½ hours lecture, 1½ hours laboratory per week (2). Dr. Martin, Mr. Bridgforth and Staff.

PREVENTIVE MEDICINE 419 A AND B. MEDICAL INFORMATION.—An overview of human physiology, with medical emphasis. The course will be presented in three major segments: (a) an introduction to the basic structures and processes of human anatomy and physiology; (b) normal physiology, stressing the organ systems and their relation to complex behavior; (c) a discussion of the major handicapping syndromes. An interdepartmental course for college students and candidates for higher degrees. Hours by arrangement.

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

MEDICINE

HUGH JACKSON MORGAN, *Professor of Medicine and Head of the Department*

RUDOLPH H. KAMPMEIER, *Professor of Medicine*

ELLIOT V. NEWMAN, *Joe and Morris Werthan Professor of Experimental Medicine*

JOHN B. YOUMANS, *Professor of Medicine*

ANN STONE MINOT, *Professor of Biochemistry in Medicine*

OVAL N. BRYAN, *Professor Emeritus of Clinical Medicine*

JOHN OWSLEY MANIER, *Professor Emeritus of Clinical Medicine*

JACK WITHERSPOON, *Professor Emeritus of Clinical Medicine*

F. TREMAINE BILLINGS, *Associate Professor of Medicine*

ROBERT CARL HARTMANN, *Associate Professor of Medicine*

VERNON KNIGHT, *Associate Professor of Medicine*

GRANT W. LITTLE, *Associate Professor of Medicine*

GEORGE R. MENEELY, *Associate Professor of Medicine*

HARRISON J. SHULL, *Associate Professor of Medicine*

WILLIAM R. CATE, *Associate Professor of Clinical Medicine*

RICHARD FRANCE, *Associate Professor of Clinical Medicine*

THOMAS F. FRIST, *Associate Professor of Clinical Medicine*

ROBERT A. GOODWIN, *Associate Professor of Clinical Medicine*

HOLLIS E. JOHNSON, *Associate Professor of Clinical Medicine*

J. ALLEN KENNEDY, *Associate Professor of Clinical Medicine*

SAMUEL S. RIVEN, *Associate Professor of Clinical Medicine*

W. DAVID STRAYHORN, *Associate Professor of Clinical Medicine*

ROBERT T. TERRY, *Associate Professor of Clinical Medicine*

- CLARENCE S. THOMAS, *Associate Professor of Clinical Medicine*
ALBERT WEINSTEIN, *Associate Professor of Clinical Medicine*
WILLIAM J. DARBY, *Assistant Professor of Medicine in Nutrition*
LOYD H. RAMSEY, *Assistant Professor of Medicine*
THOMAS BOWMAN ZERFOSS, *Assistant Professor of Medicine*
ROBERT M. FINKS, *Assistant Professor of Clinical Medicine*
LAURENCE A. GROSSMAN, *Assistant Professor of Clinical Medicine*
AUBREY B. HARWELL, *Assistant Professor of Clinical Medicine*
WILDER WALTON HUBBARD, *Assistant Professor of Clinical Medicine*
ALVIN E. KELLER, *Assistant Professor of Clinical Medicine*
EDNA S. PENNINGTON, *Assistant Professor of Clinical Medicine*
LOUIS Y. PESKOE, *Assistant Professor of Clinical Medicine*
ADDISON B. SCOVILLE, JR., *Assistant Professor of Clinical Medicine*
JAMES N. THOMASSON, *Assistant Professor of Clinical Medicine*
RICHARD W. EMANUEL, *Instructor in Medicine*
WILLIAM W. LACY, *Instructor in Medicine*
RALPH W. MASSIE, *Instructor in Medicine*
WILLIAM J. TOLLESON, *Instructor in Medicine*
CARLOS UGAZ, *Instructor in Medicine (Fellow in Medicine)*
ARTHUR C. WHITE, *Instructor in Medicine*
THOMAS G. ARNOLD, JR., *Martha Washington Straus-Harry H. Straus
Instructor in Biophysics in Medicine*
CRAWFORD W. ADAMS, *Instructor in Clinical Medicine*
WILLIAM L. ALSOBROOK, *Instructor in Clinical Medicine*
ARTHUR R. ANDERSON, *Instructor in Clinical Medicine*
EDWIN B. ANDERSON, *Instructor in Clinical Medicine*
H. R. ANDERSON, *Instructor in Clinical Medicine*
JAMES J. CALLAWAY, *Instructor in Clinical Medicine*
WILLIAM J. CARD, *Instructor in Clinical Medicine*
O. A. COUCH, JR., *Instructor in Clinical Medicine*
FREDERIC E. COWDEN, *Instructor in Clinical Medicine*
RAYMOND R. CROWE, *Instructor in Clinical Medicine*
IRWIN B. ESKIND, *Instructor in Clinical Medicine*
E. WILLIAM EWERS, *Instructor in Clinical Medicine*
FRED GOLDNER, JR., *Instructor in Clinical Medicine*
MILTON GROSSMAN, *Instructor in Clinical Medicine*
DAVID W. HAILEY, *Instructor in Clinical Medicine*
THOMAS B. HALTOM, *Instructor in Clinical Medicine*
JOSIAH B. HIBBITTS, *Instructor in Clinical Medicine*
FRANKLIN G. HOFFMAN, *Instructor in Clinical Medicine*
IRA T. JOHNSON, *Instructor in Clinical Medicine*
DAN C. ROEHM, *Instructor in Clinical Medicine*

PEIRCE M. ROSS, *Instructor in Clinical Medicine*
 AMMIE T. SIKES, *Instructor in Clinical Medicine*
 HUGH STEVENS, *Instructor in Clinical Medicine*
 EDWARD L. TARPLEY, *Instructor in Clinical Medicine*
 CHARLES B. THORNE, *Instructor in Clinical Medicine*
 RUSSELL D. WARD, *Instructor in Clinical Medicine*
 CLARENCE C. WOODCOCK, JR., *Instructor in Clinical Medicine*
 JOHN LANIER WYATT, *Instructor in Clinical Medicine*
 CONRAD HUBERT ARKEMA, *Assistant in Medicine*
 HERBERT A. BURKE, JR., *Assistant in Medicine*
 WILLIAM S. COPPAGE, JR., *Assistant in Medicine*
 OSCAR B. CROFFORD, *Assistant in Medicine*
 DANIEL L. DOLAN, *Assistant in Medicine*
 REAMS GLENN GREENE, *Assistant in Medicine*
 WALLACE H. HALL, JR., *Assistant in Medicine*
 J. ROGER NELSON, *Assistant in Medicine*
 RODNEY D. ORTH, *Assistant in Medicine*
 ALEXANDER S. TOWNES, *Assistant in Medicine*
 BENJAMIN J. ALPER, *Assistant in Clinical Medicine*
 HOWARD R. FOREMAN, *Assistant in Clinical Medicine*
 OTTO MORSE KOCHTITZKY, *Assistant in Clinical Medicine*
 FRED D. OWNBY, *Assistant in Clinical Medicine*
 MARVIN J. ROSENBLUM, *Assistant in Clinical Medicine*
 SOL ABRAHAM ROSENBLUM, *Assistant in Clinical Medicine*
 ROBERT M. ROY, *Assistant in Clinical Medicine*
 HERBERT J. SCHULMAN, *Assistant in Clinical Medicine*
 WILLIAM F. SHERIDAN, JR., *Assistant in Clinical Medicine*
 ABRAM C. SHMERLING, *Assistant in Clinical 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. Dr. Kampmeier, Dr. Strayhorn and members of the Department of Medicine; Dr. Christie, Department of Pediatrics; Dr. Daniel and members of the Department of Surgery; Dr. Francis, Department of Radiology; Dr. Minot, 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. Bed-side instruction is given daily by members of the Staff who are also members of the Faculty. Approximately 20 hours a week during one quarter. Dr. Morgan, Dr. Youmans, and Staff.

4-A. MEDICAL OUTPATIENT SERVICE.—The students of the fourth-year class are assigned to the outpatient service. Cases are assigned to the students who record the histories, conduct the physical examinations and perform the simpler laboratory tests. 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. Dr. Kampmeier and Staff.

4-B. 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, hematologic and nutritional diseases. Dr. 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. Dr. Morgan and Staff.

6. SPECIAL ELECTIVE COURSES:—

ELECTROCARDIOGRAPHY:—A brief course in the principles of electrocardiography, consisting of lectures, demonstrations and discussion, is offered each quarter. Approximately ten fourth-year students can be accepted each term. Dr. Newman.

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.

HEMATOLOGY:—Special elective work may be arranged on an individual basis. Dr. Hartmann.

COMBINED MEDICAL-SURGICAL GASTROENTEROLOGY CLINIC:—Special elective work may be arranged on an individual basis. Dr. Shull.

ENDOCRINOLOGY AND METABOLISM:—Special elective work may be arranged on an individual basis.

Neurology

WILLIAM F. ORR, *Professor of Neurology*

BERTRAM E. SPROFKIN, *Associate Professor of Neurology*

ERIC BELL, JR., *Instructor in Clinical 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 conditions. Students receive also individual instruction when they accompany patients referred to either the General Neurology or Seizure Clinic. Dr. Orr and Dr. Sprofskin.

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. Orr and 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. Orr and Dr. Sprofskin.

b. Experimental Neurology: a study of problems related to the anatomy and physiology of the nervous system. Dr. Orr and 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. Sproffkin.

Dermatology

ROBERT N. BUCHANAN, *Professor of Clinical Dermatology*
 CHARLES M. HAMILTON, *Professor Emeritus of Clinical Dermatology*
 HOWARD KING, *Professor Emeritus of Clinical Dermatology*
 FRANK G. WITHERSPOON, *Assistant Professor of Clinical Dermatology*
 BERNARD J. PASS, *Instructor in Clinical 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 in the diagnosis and treatment of the diseases of the skin under the supervision of the staff. Dr. Buchanan, Dr. Witherspoon and Dr. Pass.

PEDIATRICS

AMOS CHRISTIE, *Professor of Pediatrics and Head of the Department*
 OWEN H. WILSON, *Professor Emeritus of Clinical Pediatrics*
 O. RANDOLPH BATSON, *Associate Professor of Pediatrics*
 GORDON RENNICK SELL, *Assistant Professor of Pediatrics*
 CALVIN W. WOODRUFF, *Assistant Professor of Pediatrics*
 JAMES C. OVERALL, *Professor of Clinical Pediatrics*
 JOHN M. LEE, *Associate Professor Emeritus of Clinical Pediatrics*
 JOE M. STRAYHORN, *Associate Professor of Clinical Pediatrics*
 WILLIAM O. VAUGHAN, *Associate Professor of Clinical Pediatrics*
 HEARN G. BRADLEY, *Assistant Professor of Clinical Pediatrics*
 T. FORT BRIDGES, *Assistant Professor of Clinical Pediatrics*
 DAN S. SANDERS, JR., *Assistant Professor of Clinical Pediatrics*
 ETHEL WALKER, *Assistant Professor of Clinical Pediatrics*
 THOMAS S. WEAVER, *Assistant Professor of Clinical Pediatrics*
 ERLE E. WILKINSON, *Assistant Professor of Clinical Pediatrics*
 SAM W. CARNEY, JR., *Instructor in Pediatrics*

HARRIS D. RILEY, JR., *Instructor in Pediatrics*
SARAH H. SELL, *Instructor in Pediatrics*
MILDRED STAHLMAN, *Instructor in Pediatrics*
LUTHER A. BEAZLEY, *Instructor in Clinical Pediatrics*
LINDSAY K. BISHOP, *Instructor in Clinical Pediatrics*
NORMAN M. CASSELL, *Instructor in Clinical Pediatrics*
RAY L. DUBUISSON, *Instructor in Clinical Pediatrics*
PHILIP C. ELLIOTT, *Instructor in Clinical Pediatrics*
HARRY M. ESTES, *Instructor in Clinical Pediatrics*
LEONARD J. KOENIG, *Instructor in Clinical Pediatrics*
SOL L. LOWENSTEIN, *Instructor in Clinical Pediatrics*
RICHARD P. TABER, *Instructor in Clinical Pediatrics*
WILLIAM BROWN WADLINGTON, *Instructor in Clinical Pediatrics*
THOMAS B. ZERFOSS, JR., *Instructor in Clinical Pediatrics*
WALLACE A. CLYDE, JR., *Assistant in Pediatrics*
HENRY NEIL KIRKMAN, JR., *Assistant in Pediatrics*
ROBERT M. McKEY, JR., *Assistant in Pediatrics*
J. GARLAND STROUP, *Assistant in Pediatrics*
NORMA WALKER, *Assistant in Pediatrics*
FRANCES C. WOMACK, *Research 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 as clinical clerks assigned 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. Dr. Christie, Dr. R. 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 eighth 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 and Cardiac Clinic. Dr. Christie and Staff.

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

PSYCHIATRY

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

FRANK H. LUTON, *Professor of Psychiatry*

OTTO BILLIG, *Associate Professor of Psychiatry*

CYRIL J. RUILMANN, *Associate Professor of Clinical Psychiatry*

SMILEY BLANTON, *Associate Professor Emeritus of Clinical Psychiatry*

VIRGINIA KIRK, *Associate Professor of Clinical Psychology*

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

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

SAMUEL E. ABEL, *Assistant Professor of Clinical Psychiatry*

BASIL T. BENNETT, *Assistant Professor of Clinical Psychiatry*

H. JAMES CRECRAFT, *Assistant Professor of Clinical Psychiatry*

O. S. HAUK, *Assistant Professor Emeritus of Clinical Psychiatry*

CHARLES B. SMITH, *Assistant Professor of Clinical Psychiatry*

WARREN W. WEBB, *Assistant Professor of Clinical Psychology*

HUBERT H. BLAKEY, *Instructor in Psychiatry*

ALBERT R. LAWSON, *Instructor in Psychiatry*

KURT T. SCHMIDT, *Instructor in Psychiatry*

*RICHARD H. SUNDERMANN, *Instructor in Psychiatry*

ERIC BELL, JR., *Instructor in Clinical Psychiatry*

HENRY B. BRACKIN, JR., *Instructor in Clinical Psychiatry*

ROBERT M. FOOTE, *Instructor in Clinical Psychiatry*

*On leave of absence for military duty.

G. TIVIS GRAVES, *Instructor in Clinical Psychiatry*
ROBERT V. LARRICK, *Instructor in Clinical Psychiatry*
FRANK W. STEVENS, *Instructor in Clinical Psychiatry*
RAYMOND J. BALESTER, *Instructor in Clinical Psychology*
MARTIN C. PEPER, *Assistant in Psychiatry*
ROBERT M. REED, *Assistant in Psychiatry*
NAT T. WINSTON, JR., *Assistant in Psychiatry*
FRANCES R. WEBSTER, *Research Assistant in Clinical Psychology*

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

522. 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 spring quarter of second year. Dr. Orr, Dr. Ferber, and Dr. Billig.

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. Dr. Luton and Staff.

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

5. INSTITUTIONAL PSYCHIATRY.—Fourth-year students spend two half days per week at Central State Hospital where they study the chronically psychotic patient and become acquainted with problems of his treatment and care. Twenty-four hours during the fourth year. Dr. Luton, Dr. Hauk, 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.

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.

SURGERY

H. WILLIAM SCOTT, JR., *Professor of Surgery and Head of the Department*

ROLLIN A. DANIEL, JR., *Professor of Clinical Surgery*

LEONARD W. EDWARDS, *Professor Emeritus of Clinical Surgery*

ROBERT I. CARLSON, *Associate Professor of Surgery*

RUDOLPH A. LIGHT, *Associate Professor of Surgery*

BARTON McSWAIN, *Associate Professor of Surgery*

BEVERLY DOUGLAS, *Associate Professor of Clinical Surgery*

JAMES A. KIRTLEY, JR., *Associate Professor of Clinical Surgery*

RALPH M. LARSEN, *Associate Professor of Clinical Surgery*

DAUGH W. SMITH, *Associate Professor of Clinical Surgery*

DUNCAN EVE, *Associate Professor Emeritus of Clinical Surgery*

HARRISON H. SHOULDERS, *Associate Professor Emeritus of Clinical Surgery*

**JESSE E. ADAMS, *Assistant Professor of Surgery*

WALTER G. GOBBEL, JR., *Assistant Professor of Surgery*

EDMUND W. BENZ, *Assistant Professor of Clinical Surgery*

CLOYCE F. BRADLEY, *Assistant Professor of Clinical Surgery*

BENJAMIN F. BYRD, JR., *Assistant Professor of Clinical Surgery*

WILLIAM R. CATE, JR., *Assistant Professor of Clinical Surgery*

WALTER DIVELEY, *Assistant Professor of Clinical Surgery*

**On leave of absence.

- JAMES C. GARDNER, *Assistant Professor of Clinical Surgery*
JAMES ANDREW MAYER, *Assistant Professor of Clinical Surgery*
ROBERT L. McCracken, *Assistant Professor of Clinical Surgery*
OSCAR NOEL, *Assistant Professor of Clinical Surgery*
GREER RICKETSON, *Assistant Professor of Clinical Surgery*
DOUGLAS H. RIDDELL, *Assistant Professor of Clinical Surgery*
LOUIS ROSENFELD, *Assistant Professor of Clinical Surgery*
NATHANIEL SEHORN SHOFNER, *Assistant Professor of Clinical Surgery*
CHARLES C. TRABUE, *Assistant Professor of Clinical Surgery*
BERNARD M. WEINSTEIN, *Assistant Professor of Clinical Surgery*
MARY FAITH ORR, *Instructor in Oncology*
HAROLD A. COLLINS, *Instructor in Surgery*
JAMES T. GRACE, *Instructor in Surgery*
REGINALD J. PHILLIPS, JR., *Instructor in Surgery*
SAM E. STEPHENSON, JR., *Instructor in Surgery*
MICHAEL G. WEIDNER, *Instructor in Surgery*
FRANK GOLLAN, *Research Associate in Surgery*
STANLEY BERNARD, *Instructor in Clinical Surgery*
GEORGE DUNCAN, *Instructor in Clinical Surgery*
PARKER D. ELROD, *Instructor in Clinical Surgery*
JOHN L. FARRINGER, JR., *Instructor in Clinical Surgery*
SAM Y. GARRETT, *Instructor in Clinical Surgery*
CARL N. GESSLER, *Instructor in Clinical Surgery*
HERSCHEL A. GRAVES, JR., *Instructor in Clinical Surgery*
LYNWOOD HERRINGTON, JR., *Instructor in Clinical Surgery*
GEORGE W. HOLCOMB, *Instructor in Clinical Surgery*
A. BRANT LIPSCOMB, *Instructor in Clinical Surgery*
JACKSON P. LOWE, *Instructor in Clinical Surgery*
JERE W. LOWE, *Instructor in Clinical Surgery*
M. CHARLES McMURRY, *Instructor in Clinical Surgery*
DAVID R. PICKENS, JR., *Instructor in Clinical Surgery*
ROBERT N. SADLER, *Instructor in Clinical Surgery*
KIRKLAND W. TODD, JR., *Instructor in Clinical Surgery*
WILLIAM C. ALFORD, JR., *Assistant in Surgery*
JOSEPH C. BAILEY, *Assistant in Surgery*
GEORGE R. BURRUS, *Assistant in Surgery*
WALTER S. CAIN, *Assistant in Surgery*

- WILLIAM J. CALLISON, *Assistant in Surgery*
KENNETH L. CLASSEN, *Assistant in Surgery*
JAMES B. DALTON, *Assistant in Surgery*
ROYCE E. DAWSON, *Assistant in Surgery*
DAVID T. DODD, *Assistant in Surgery*
ROBERT D. EASTRIDGE, *Assistant in Surgery*
WILLIAM H. EDWARDS, *Assistant in Surgery*
JOHN H. FOSTER, *Assistant in Surgery*
JAMES L. GUEST, JR., *Assistant in Surgery*
DAVID P. HALL, *Assistant in Surgery*
DUNCAN ARNOLD KILLEN, *Assistant in Surgery*
EDWARD M. LANCE, *Assistant in Surgery*
FAYETTE M. McELHANNON, *Assistant in Surgery*
LAWRENCE S. MCGEE, *Assistant in Surgery*
JOHN P. MIMS, *Assistant in Surgery*
I. ARMISTEAD NELSON, *Assistant in Surgery*
THOMAS L. PRITCHETT, JR., *Assistant in Surgery*
TERRY T. REES, *Assistant in Surgery*
JOHN L. SAWYERS, *Assistant in Surgery*
WILLIAM L. TAYLOR, *Assistant in Surgery*
REX E. WIEDERANDERS, *Assistant in Surgery*
ROBERT W. YOUNGBLOOD, *Assistant in Surgery*
ROY G. HAMMONDS, *Assistant in Clinical Surgery*
TRAVIS H. MARTIN, *Assistant in Clinical Surgery*
CLEO M. MILLER, *Assistant in Clinical Surgery*
HARRISON H. SHOULDERS, JR., *Assistant in Clinical Surgery*

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 members of

the Department of Surgery; Dr. Kampmeier, Dr. Strayhorn, and members of the Department of Medicine; Dr. Christie, Department of Pediatrics; Dr. Francis, Department of Radiology; Dr. Minot, Department of Biochemistry.

2. **PHYSICAL DIAGNOSIS IN SURGERY.**—The object of this course is to instruct the 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 CLINICS.**—The students of the third and fourth-year classes are expected to attend the weekly 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. In 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 expected to attend these clinics. One hour a week throughout the third and fourth years. Dr. Scott, Dr. Daniel and members of the Department of Surgery.

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 OUTPATIENT SERVICE.**—For one quarter the students of the third-year class serve daily as assistants in the Outpatient Clinics of general surgery, 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. Byrd and Staff.

7. ELECTIVE COURSES IN SURGERY—For Fourth Year Students.

(a) REVIEW OF SURGERY.—Emphasis is placed on surgical principles and diagnosis. This course will not be given unless a minimum of eight students elect to take the course. Two hours a week for each elective period. Dr. Benz.

(b) CLINICAL AND LABORATORY RESEARCH.—A course in clinical and laboratory surgical research. Limited to two students during an elective period. Dr. Light.

(c) 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. Light.

(d) 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.

(e) 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.

Neurological Surgery

WILLIAM F. MEACHAM, *Professor of Neurological Surgery*

CULLY COBB, *Associate Professor of Neurological Surgery*

ARNOLD MEIROWSKY, *Assistant Professor of Clinical Neurological Surgery*

GUY OWENS, *Instructor in Neurological Surgery*

GRAY E. B. STAHLMAN, *Instructor in Neurological Surgery*

JOE M. CAPPS, *Instructor in Clinical Neurological Surgery*

C. C. MCCLURE, JR., *Instructor in Clinical Neurological Surgery*

EDWIN F. CHOBOT, JR., *Assistant in Neurological Surgery*

1. NEUROLOGICAL SURGERY.—A clinical presentation of neuro-surgical problems with emphasis on diagnosis and management.

Third and fourth year classes. Two hours per month throughout the year. Dr. Meacham, Dr. Cobb.

2. NEUROSURGICAL CLINIC.—Work in the Neurosurgical Out-patient Service. Examinations and treatment of patients including follow-up studies on postoperative cases. Informal Neurosurgical Seminar at end of period. Fourth-year class. Dr. Cobb, Dr. McClure, Dr. 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.

Otolaryngology

GUY M. MANESS, *Professor of Clinical Otolaryngology*

MARVIN MCTYEIRE CULLOM, *Professor Emeritus of Clinical Otolaryngology*

W. G. KENNON, JR., *Assistant Professor of Clinical Otolaryngology*

WILLIAM WESLEY WILKERSON, JR., *Assistant Professor of Clinical Otolaryngology*

J. THOMAS BRYAN, *Assistant Professor of Clinical Otolaryngology*

HERBERT DUNCAN, *Assistant Professor of Clinical Otolaryngology*.

MORRIS ADAIR, *Instructor in Clinical Otolaryngology*

CLYDE ALLEY, JR., *Instructor in Clinical Otolaryngology*

LEE FARRAR CAYCE, *Assistant in Clinical Otolaryngology*

ANDREW N. HOLLABAUGH, *Assistant in Clinical Otolaryngology*

1. OTOLARYNGOLOGY.—A course of lectures is given in which the diseases of the ear, nose and throat are briefly discussed 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 fourth-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 post-operative care of patients. Eight hours a week during one half of one quarter. Dr. Maness.

Urology

EDWARD HAMILTON BARKSDALE, *Associate Professor of Clinical Urology*

- HENRY L. DOUGLASS, *Associate Professor of Clinical Urology*
 CHARLES E. HAINES, JR., *Associate Professor of Clinical Urology*
 A. PAGE HARRIS, *Assistant Professor of Urology*
 HARRY S. SHELLY, *Assistant Professor of Urology*
 OSCAR W. CARTER, *Assistant Professor of Clinical Urology*
 HORACE C. GAYDEN, *Assistant Professor of Clinical Urology*
 MAX K. MOULDER, *Assistant Professor of Clinical Urology*
 JOHN M. TUDOR, *Instructor in Clinical Urology*
 ALBERT P. ISENHOUR, *Assistant in Clinical Urology*
 ROBERT E. McCLELLAN, *Assistant in Clinical 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. Haines 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. Dr. Barksdale, Dr. Haines and Staff.

Orthopedic Surgery

- EUGENE M. REGEN, *Professor of Clinical Orthopedic Surgery*
 R. WALLACE BILLINGTON, *Professor Emeritus of Clinical Orthopedic Surgery*
 J. WILLIAM HILLMAN, *Associate Professor of Orthopedic Surgery*
 GEORGE K. CARPENTER, *Associate Professor of Clinical Orthopedic Surgery*
 J. JEFFERSON ASHBY, *Assistant Professor of Clinical Orthopedic Surgery*
 DON L. EYLER, *Assistant Professor of Clinical Orthopedic Surgery*
 S. BENJAMIN FOWLER, *Assistant Professor of Clinical Orthopedic Surgery*
 SAMUEL B. PREVO, *Assistant Professor of Clinical Orthopedic Surgery*
 ARTHUR LEROY BROOKS, *Instructor in Orthopedic Surgery*
 JOE G. BURD, *Instructor in Clinical Orthopedic Surgery*
 JOHN GLOVER, *Assistant Professor of Clinical Orthopedic Surgery*
 THOMAS F. PARRISH, *Instructor in Clinical Orthopedic Surgery*

ARNOLD HABER, JR., *Assistant in Clinical Orthopedic Surgery*

BENNETT W. CAUGHRAN, *Assistant in Orthopedic Surgery*

ALBERT F. DINGLEY, JR., *Assistant in Orthopedic Surgery*

1. ORTHOPEDIC SURGERY.—A course of lectures and recitations in which the more important parts of orthopedic surgery are discussed is given. One hour a week during the fall quarter of the fourth year. Dr. 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 on Thursdays 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. Dr. Regen and Staff.

3. FRACTURES.—During the fourth year one hour each week is given to the instruction of the entire fourth-year class in the diagnosis and treatment of fractures. Both hospital and dispensary patients are used in this course. One hour a week during the winter quarter of the fourth year. Dr. Regen and Staff.

Dental Surgery

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

OREN A. OLIVER, *Professor Emeritus of Clinical Dental Surgery*

WALTER M. MORGAN, *Professor Emeritus of Clinical Dental Surgery*

MAX V. SIGAL, *Associate Professor of Clinical Dental Surgery*

WILLIAM S. GRAY, *Assistant Professor of Clinical Dental Surgery*

FRED H. HALL, *Assistant Professor of Clinical Dental Surgery*

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

ELMORE HILL, *Assistant Professor of Clinical Dental Surgery*

EDWARD H. MARTIN, *Assistant Professor of Clinical Dental Surgery*

JAMES B. BAYLOR, *Instructor in Clinical Dental Surgery*

FRED M. MEDWEDEFF, *Assistant in Clinical Dental Surgery*

FELICE PETRUCELLI, *Assistant in Clinical 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.

RADIOLOGY

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

C. C. McCLURE, *Professor of Clinical Radiology*

GRANVILLE W. HUDSON, *Associate Professor of Radiology*

JOHN BEVERIDGE, *Assistant Professor of Clinical Radiology*

MINYARD D. INGRAM, *Assistant Professor of Clinical Radiology*

JOSEPH IVIE, *Assistant Professor of Clinical Radiology*

BEN R. MAYES, *Assistant Professor of Clinical Radiology*

DAVID E. SHERMAN, *Assistant Professor of Clinical Radiology*

JOSEPH HUNTER ALLEN, JR., *Instructor in Radiology*

KONRAD FELIX KIRCHER, *Instructor in Radiology*

CLIFTON E. GREER, *Instructor in Clinical Radiology*

WILLIAM M. HAMILTON, *Instructor in Clinical Radiology*

JACK R. DULEY, *Assistant in Radiology*

CARL RAY HALE, *Assistant in Radiology*

ROBERT JOSEPH LINN, *Assistant in Radiology*

LOUIS G. PASCAL, *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 divided into two sections. Each group 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. Second-year class, two sections, three hours each in spring quarter. 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 the quarter. 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 for students interested in x-ray technique or research work.

OPHTHALMOLOGY

HENRY CARROLL SMITH, *Professor of Clinical Ophthalmology and Head of the Division*

ROBERT E. SULLIVAN, *Professor Emeritus of Clinical Ophthalmology*

FOWLER HOLLABAUGH, *Associate Professor of Clinical Ophthalmology*

KATE SAVAGE ZERFOSS, *Associate Professor of Clinical Ophthalmology*

MARVIN MCTYEIRE CULLOM, *Assistant Professor Emeritus of Clinical Ophthalmology*

GEORGE W. BOUNDS, *Assistant in Clinical Ophthalmology*

L. ROWE DRIVER, *Assistant in Clinical Ophthalmology*

ALLEN LAWRENCE, *Assistant in Clinical Ophthalmology*

PHILIP L. LYLE, *Assistant in Clinical Ophthalmology*

N. B. MORRIS, *Assistant in Clinical Ophthalmology*

RALPH RICE, *Assistant in Clinical Ophthalmology*

1. OPTHALMOLOGY.—A course of lectures is given on the more common eye diseases and injuries of the eye, and 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. Smith and Staff.

OBSTETRICS AND GYNECOLOGY

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

LUCIUS EDWARD BURCH, *Professor Emeritus of Obstetrics and Gynecology*

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

G. SYDNEY MCCLELLAN, *Professor of Clinical Obstetrics and Gynecology*

- D. SCOTT BAYER, *Professor of Clinical Obstetrics and Gynecology*
SAM C. COWAN, *Professor Emeritus of Clinical Obstetrics*
WILLIAM C. DIXON, *Professor Emeritus of Clinical Gynecology*
W. BUSH ANDERSON, *Associate Professor Emeritus of Clinical Obstetrics*
MILTON S. LEWIS, *Associate Professor of Clinical Obstetrics*
WILLIAM JAMES MCGANITY, *Associate Professor of Obstetrics and Gynecology*
DORIS H. ORWIN, *Associate Professor of Physiology in Obstetrics and Gynecology*
WILLARD O. TIRRILL, JR., *Associate Professor of Clinical Obstetrics and Gynecology*
HARLIN TUCKER, *Associate Professor Emeritus of Clinical Gynecology*
CLAIBORNE WILLIAMS, *Associate Professor of Obstetrics and Gynecology*
JOSEPH D. ANDERSON, *Assistant Professor of Clinical Obstetrics and Gynecology*
JOHN SMITH CAYCE, *Assistant Professor of Clinical Obstetrics*
CARL S. MCMURRAY, *Assistant Professor of Clinical Gynecology*
EDWIN LEA WILLIAMS, *Assistant Professor of Clinical Obstetrics and Gynecology*
WESLEY L. ASKEW, JR., *Instructor in Obstetrics and Gynecology*
RUSSELL T. BIRMINGHAM, *Instructor in Clinical Obstetrics and Gynecology*
HORACE GEORGE BRAMM, *Instructor in Obstetrics and Gynecology*
ROBERT L. CHALFANT, *Instructor in Clinical Obstetrics and Gynecology*
EVERETT M. CLAYTON, JR., *Instructor in Clinical Obstetrics and Gynecology*
SAM C. COWAN, JR., *Instructor in Clinical Obstetrics and Gynecology*
GEORGE B. CRAFTON, *Instructor in Clinical Obstetrics and Gynecology*
RAPHAEL S. DUKE, *Instructor in Clinical Obstetrics and Gynecology*
JAMES W. ELLIS, *Instructor in Clinical Obstetrics and Gynecology*
HAMILTON GAYDEN, *Instructor in Clinical Obstetrics and Gynecology*
B. K. HIBBETT, III, *Instructor in Clinical Obstetrics and Gynecology*
ROLAND D. LAMB, *Instructor in Clinical Gynecology*
HORACE T. LAVELY, JR., *Instructor in Clinical Gynecology*
*HOWARD E. MORGAN, *Instructor in Obstetrics and Gynecology*
ROY W. PARKER, *Instructor in Clinical Obstetrics and Gynecology*

*On leave of absence for military duty.

- ROBERT C. PATTERSON, JR., *Instructor in Clinical Obstetrics*
 C. GORDON PEERMAN, JR., *Instructor in Clinical Obstetrics and Gynecology*
 HOUSTON SARRATT, *Instructor in Clinical Obstetrics and Gynecology*
 DOUGLAS SEWARD, *Instructor in Clinical Gynecology*
 ARTHUR SUTHERLAND, *Instructor in Clinical Obstetrics and Gynecology*
 THOMAS F. WARDER, *Instructor in Clinical Obstetrics and Gynecology*
 PAUL L. WARNER, *Instructor in Clinical Obstetrics*
 JAMES ALAN ALEXANDER, *Assistant in Obstetrics and Gynecology*
 JOHN W. BOLDT, *Assistant in Obstetrics and Gynecology*
 SWAN BRASFIELD BURRUS, *Assistant in Obstetrics and Gynecology*
 W. PAUL DICKINSON, *Assistant in Obstetrics and Gynecology*
 CHARLIE JOE HOBBY, *Assistant in Obstetrics and Gynecology*
 A. JEROME MUELLER, *Assistant in Obstetrics and Gynecology*
 CHANDLER H. SMITH, *Assistant in Obstetrics and Gynecology*
 HENRY WURZBURG, *Assistant in Obstetrics and Gynecology*
 CHARLES H. HUDDLESTON, *Assistant in Clinical Obstetrics and Gynecology*
 HOMER M. PACE, *Assistant in Clinical Obstetrics and Gynecology*
 SIDNEY C. REICHMAN, *Assistant in Clinical Obstetrics and Gynecology*
 RICHARD C. STUNTZ, *Assistant in Clinical Obstetrics*
 WILLIAM D. SUMPTER, JR., *Assistant in Clinical Obstetrics and Gynecology*
 ALLEN E. VAN NESS, *Assistant in Clinical Obstetrics*

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 spring quarter of second year. Dr. C. Williams and Staff.

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

3. CLINICAL OBSTETRICS.—During one half of a quarter a small group of 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 by 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. J. C. 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 gets approximately 100 hours of instruction per year on gynecology patients. Dr. J. C. 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, is given during the fourth year. Twenty-two hours of instruction are given to each fourth-year student during the year. Dr. R. W. 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.

ANESTHESIOLOGY

BENJAMIN H. ROBBINS, *Professor of Anesthesiology and Head of the Department*

- LAWRENCE G. SCHULL, *Associate Professor of Anesthesiology*
 JOHN A. JARRELL, JR., *Instructor in Clinical Anesthesiology*
 HARRY T. MOORE, JR., *Instructor in Clinical Anesthesiology*
 E. PALMER JONES, *Instructor in Clinical Anesthesiology*
 JOANNE L. LINN, *Instructor in Anesthesiology*
 JAMES B. ZICKLER, *Instructor in Anesthesiology*
 JEANNINE CLASSEN, *Instructor in Anesthesiology*
 MARION ANDREW CARNES, *Assistant in Anesthesiology*
 *TENNY J. HILL, *Assistant in Anesthesiology*

1. ANESTHESIOLOGY.—This course includes a series of lectures, demonstrations and discussions of anesthetic agents in relation to their use in the patient. 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.

MILITARY AND DISASTER MEDICINE

Vanderbilt University School of Medicine was one of the original five pilot medical schools in this country conducting a program of medical education for national defense, integrating the teaching of military and disaster medicine with the regular medical curriculum involving all students. There are now forty-five medical schools participating in this program.

AUDIOLOGY AND SPEECH

- FREEMAN McCONNELL, *Professor of Audiology and Head of the Division*
 FORREST M. HULL, *Associate Professor of Speech Science*
 PAUL J. LABENZ, *Assistant Professor of Audiology*
 FRANK J. FALCK, *Assistant Professor of Speech Pathology*
 MARTHA BUCHMAN BRUNDIGE, *Instructor in Audiology*
 CLAIRE COOPER, *Instructor in Audiology*
 KATHRYN BARTH HORTON, *Instructor in Speech Pathology*
 NORMA L. LOETZ, *Instructor in Speech Pathology*

*On leave of absence on military duty.

ADMISSION

Requirements for admission to courses in graduate instruction in audiology or speech in the School of Medicine are the same as those required for admission to the Graduate School. The requirements for admission to candidacy for the degree of Master of Science in Audiology or Speech are equivalent to those for admission to candidacy for the Master of Arts degree in the Graduate School except that there is no foreign language requirement.

Application for admission and additional information may be obtained by addressing correspondence to the Registrar, Vanderbilt University School of Medicine, Nashville 5, Tennessee.

REQUIREMENTS FOR DEGREES

A minimum of 27 quarter hours in the major field, either audiology or speech according to the student's primary interest, is required. In addition, at least nine quarter hours in a minor subject and a written thesis are required. The graduate program must include one seminar course and at least two other 500-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 four term quarters.

Thesis: In addition to the course requirements 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 \$2.00 for the binding of each required copy of his thesis and \$6.00 for the printing of the abstract. The thesis is additional to the thirty-six term hours required for the degree. Detailed instructions as to the form in which the thesis is to be submitted may be secured at the office of the Registrar of the School of Medicine.

EXPENSES

The charges for graduate work in audiology and speech are as follows:

Tuition in the Division of Audiology and Speech is \$180.00 per quarter for a program of 9 to 13 hours.

For schedules in excess of 13 hours, \$20.00 per quarter hour is added, and schedules less than 9 hours are charged at the rate of \$20.00 per quarter hour, provided, however, that the minimum tuition charge per quarter is \$50.00.

The fees give all students the privilege of the health service offered by the University and the use of Alumni Memorial Hall.

Students who register for thesis research without credit will pay a fee of \$50.00 per term for thesis direction and for the use of the library.

There is a diploma fee of \$10.00.

All students who fail to register on the days designated will be charged a fee of \$5.00 for late registration.

THE COURSES 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 arrangements with the instructors.

AUDIOLOGY

423. *Testing of Hearing*.—A study of the various types of hearing tests with emphasis on audiometric measurement. Demonstration of and practice in pure tone audiometry and interpretation of the findings. Four one-hour lectures weekly. Fall. (4) Dr. McConnell.

Prerequisite: Physics or Experimental Psychology.

425. *Anatomy and Physiology of Hearing*.—A study of the structure of the human ear and of its abnormalities and diseases. Consideration of basic physiologic principles with emphasis on the psychoacoustics of audition. Three one-hour lectures weekly. Spring. (3) Dr. McConnell.

Prerequisite: Speech Science, Biology or Zoology.

427. *Diagnostic Techniques in Audiology and Speech Correction*.—Diagnostic tests and procedures for children and adults with impaired hearing or defective speech. Techniques for screening areas important to normal speech development. Case history techniques. May be taken for Speech credit. Fall and Spring. (3) Mrs. Horton.

Prerequisite: 422 or 423; Advanced English Composition; Elementary Statistics.

430. *Speech and Language for the Deaf*.—Historical background of education of the deaf. Systems of developing speech and language in acoustically handicapped children. Clinical observation required. Spring. (3) Mrs. Brundige.

Prerequisites: 423 and 424.

431. *Residual Hearing*.—A study of the recent concepts in maximum utilization of all residual hearing in the development of effective communicative functioning of hearing impaired individuals. Includes description and demonstration of electronic instrumentation for amplified sound. Clinical practice required. Winter. (3) Miss Cooper.

Prerequisite: 423 or 425.

520. *The Selection and Use of Hearing Aids*.—A study of the research and theory of clinical selection of hearing aids. The principles of speech audiometry in assessing the usefulness of residual hearing. Psychological factors related to hearing aid use. Four one-hour lectures weekly. Clinical observation required. Winter. (4) Dr. McConnell.

Prerequisite: 423.

522. *Seminar in Audiology*.—Special study of research methods and current significant research findings in the field of audiology. Special topics of investigation assigned. Course may be repeated for credit. Summer. (3) Dr. McConnell.

Prerequisite: 422 and 423.

523. *Advanced Clinical Study and Practice*.—Assigned readings and written reports combined with regular participation in one of the special clinics. Open by permission of instructor to students having the qualifications for participation in the clinical activity selected. Course may be repeated for credit and may be taken for Speech credit. Fall, Winter and Spring. (2) Staff.

SPEECH

422. *Articulation and Voice Disorders*.—A study of the etiology, diagnosis, and clinical management of articulatory defects and voice disorders. Four one-hour lectures weekly. Clinical observation required. Fall. (4) Dr. Hull.

Prerequisite: Speech Science or an introductory course in Audiology or Speech Pathology.

424. *Anatomy and Physiology of the Vocal Mechanism*.—Lectures, readings, demonstrations, and laboratory dissections presenting the structure and function of the neuromuscular system involved in breathing, phonation, resonance, and articulation. Four one-hour lectures and one three-hour laboratory section per week. Fall. (4) Dr. Falck.

Prerequisite: Biology or Zoology.

426. *Stuttering*.—A study of the diagnosogenic, psychogenic, and organic etiologies of stuttering. Techniques for the diagnosis, man-

agement, and therapy for primary and secondary stutters. A review of the significant research in the field of stuttering, with emphasis on etiologies and therapies. Clinical observation required. Winter. (3) Dr. Falck.

Prerequisite: 422 or an introductory course in Speech Correction.
Corequisite: Abnormal Psychology.

428. *Organic Speech Disorders*.—A study of the etiology, diagnosis, and therapy of speech deviations resulting from cleft palate, cerebral palsy, and other pathologies related to brain injury and developmental malformation, including bulbar polio and postlaryngectomy speech. Four one-hour lectures weekly. Clinical observation required. Winter. (4) Dr. Falck.

Prerequisite: 422 and Zoology.

521. *Aphasia*.—A study of the aphasic language disturbances with a consideration of the history of aphasia, normal and abnormal language function, perception and perceptual disturbances. Clinical examination and classification of the aphasias. Emotional and behavioral characteristics. Education and therapy. Spring. (3) Dr. Hull.

Prerequisite: 422 and 428; Corequisite: Physiological Psychology.

524. *Field Work in Audiology and Speech Correction*.—Participation in group testing of school populations. Student required to make arrangements with school administrators and to conduct faculty orientation meetings. One-half day of field work weekly for each hour of credit. May be taken for Audiology credit. Fall, Winter, and Spring. (1-3) Staff.

Prerequisite: 422 and 423.

525. *Seminar in Speech Science*.—Special study of research methods and current significant research findings in the field of Speech Science and Experimental Phonetics. Special topics of investigation assigned. Winter. (3) Dr. Hull.

Prerequisite: 422 and 423.

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 in completing a sequence of study in his major or minor area.

POSTGRADUATE 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.

If a postgraduate student registers for the full academic year, the tuition fee is \$600. For the calendar year of 12 months it is \$800 or \$66.66 per month.

REGISTER OF STUDENTS

SCHOOL OF MEDICINE

Session September, 1955—June, 1956

The members of the fourth-year class, as listed below, received the degree of Doctor of Medicine in June, 1956.

NAME	INSTITUTION	HOME ADDRESS
ALTSTATT, ALICE HACKNEY, B.A., Bryn Mawr, 1949:		
	M.A., Vanderbilt University, 1953.....	Finksburg, Md.
ALYSTATT, LESLIE BOYD, B.A., University of Arizona, 1952.....		Yuma, Ariz.
BAKER, THOMAS HEIATT, JR., Vanderbilt University, 1953.....		Frankfort, Ky.
BRISSEL, LARRY HOMAN, B.A., Vanderbilt University, 1953.....		Pine Bluff, Ark.
BIERI, DIXON L., B.A., University of North Dakota, 1953;		
	B.S. in Medicine, University of North Dakota, 1954, Stanley, N. D.	
BOPP, RAYMOND KARL, A.B., Valparaiso University, 1952.....		Kirkwood, Mo.
BRADBURN, HUBERT BENJAMIN, B.A., Vanderbilt University, 1953.....		Springfield, Ill.
CALLAWAY, JAMES MILLER, B.A., Maryville College, 1952.....		Maryville, Tenn.
CARMICHAEL, ARCHIE HILL, III, B.A., Vanderbilt University, 1953.....		Tuscumbia, Ala.
CARNES, EDWIN RAYMOND, A.B., Asbury College, 1952.....		Wilmore, Ky.
COLLINS, JOHN RICHARD, B.A., Vanderbilt University, 1953.....		Monterey, Tenn.
COUCH, ROBERT BARNARD, B.A., Vanderbilt University, 1952.....		Guntersville, Ala.
DAVIDSON, EUGENE TAYLOR, B.A., Vanderbilt University, 1952.....		Birmingham, Ala.
DAVIS, WILLIAM SIMMONS, B.S., Mississippi College, 1952.....		Flora, Miss.
DAVISON, JUDSON ADELBERT, B.A., University of Colorado, 1953.....		Miami, Fla.
EDWARDS, HARRY ALFRED, JR., B.A., Vanderbilt University, 1953.....		Miami, Fla.
FELTS, PHILIP WYATT, B.A., Vanderbilt University, 1952.....		Nashville, Tenn.
FRYE, ROBERT LEO, B.A., Vanderbilt University, 1953.....		Oklahoma City, Okla.
GASKINS, FAY RICE, B.S. in Education, University of Missouri, 1952;		
	B.S. in Medicine, University of Missouri, 1954.....	Campbell, Mo.
GILLEN, JOHN CRAWFORD, A.B., Ohio University, 1952.....		Wellston, Ohio
GRIFFIN, ROBERT STEWART, B.S., Murray State College, 1952.....		Hopkinsville, Ky.
HAGSTROM, RUTH MURRAY, B.S., Miss. State College for Women, 1950, State College, Miss.		
HARDIN, ROBERT A., A.B., Asbury College, 1952.....		Lexington, Ky.
HUNTER, WILLIAM ARMSTRONG, JR., B.S., University of Florida, 1952.....		Gainesville, Fla.
JERNIGAN, WILLIAM N., B.A., Vanderbilt University, 1952.....		Beaumont, Tex.
JONAS, A. GARLAND, JR., B.A., University of North Carolina, 1952		
	Ponte Vedra Beach, Fla.
KALBAC, JOSEPH JEROME, A.B., Washington University, 1953;		
	B.S. in Medicine, University of Missouri, 1954.....	St. Louis, Mo.
KISTLER, PHILIP C., B.A., Vanderbilt University, 1953.....		Signal Mountain, Tenn.
MAY, RUSSELL LEON, A.B., Asbury College, 1952.....		Farmersburg, Ind.
MILLER, JOHN MAURICE, B.A., Vanderbilt University, 1953.....		Nashville, Tenn.
MILLER, ROBERT BROWN, B.S., Murray State College, 1952.....		Murray, Ky.
NACHMAN, RALPH LOUIS, B.A., Vanderbilt University, 1953.....		Bayonne, N. J.
NEVILLE, CHARLES WILLIS, JR., B.A., Vanderbilt University, 1953.....		Birmingham, Ala.
PARKER, WILLIAM PAXTON, JR., B.A., Vanderbilt University, 1952.....		Nashville, Tenn.
PIERCE, ALEXANDER WEBSTER, JR., B.A., Vanderbilt University, 1952.....		Wichita Falls, Tex.
ROANE, JOURDAN ARCHIBALD, B.A., Vanderbilt University, 1953.....		Iuka, Miss.
RUSSELL, RICHARD OLNEY, JR., B.A., Vanderbilt University, 1953.....		Birmingham, Ala.
SAMPSON, LOUIS, B.S., College of the City of New York, 1940.....		Nashville, Tenn.
SPALDING, ROBERT T., B. A., Vanderbilt University, 1953.....		East Cleveland, Ohio
SPEAR, CURTIS VARNELL, JR., B.S., University of Georgia, 1952.....		Columbus, Ga.
SWAN, JACK TURNER, B.A., Vanderbilt University, 1952.....		Fort Valley, Ga.

NAME	INSTITUTION	HOME ADDRESS
TALBERT, JAMES LEWIS, B.A.,	Vanderbilt University, 1953.	Hopkinsville, Ky.
THOMPSON, CHARLES R., JR., B.S.,	Drury College, 1953;	
	B.S. in Medicine, Univ. of Missouri, 1954.	West Plains, Mo.
TOLSON, ROBERT EDWARD, JR.,	Northwestern University	Washington, D. C.
WARNER, JOHN SLOAN, B.S.,	University of the South, 1952.	Nashville, Tenn.
WELLS, THOMAS LEON, B.S.,	University of Florida, 1952.	Miami, Fla.
WILLIAMS, WILSON CARTER, JR., B.A.,	Vanderbilt University, 1953.	Nashville, Tenn.
WOLF, GERALD LIEBERS, B.A.,	Vanderbilt University, 1952.	Brooklyn, N. Y.
WOODHEAD, DAVID M., B.S.,	University of Kentucky, 1954.	Falmouth, Ky.
WOOLEY, OTIS BURTON, JR., B.S.,	Mississippi State College, 1950.	Marks, Miss.
YARBROUGH, W. MURRAY, JR., B.A.,	Vanderbilt University, 1953.	Athens, Ala.

THIRD-YEAR CLASS

Session September, 1955—June, 1956

ADAMSON, GODFREY DOUGLAS, JR., B.S.,	University of Kentucky, 1953.	Louisville, Ky.
BEBOUT, DONALD EDWARD, B.S.,	Case Institute of Technology, 1949.	Boca Raton, Fla.
BERZINS, TALIVALDIS,	University of Wuerzburg	Nashville, Tenn.
BOND, ARTHUR GERNT, B.S.,	Austin Peay State College, 1954.	Clarksville, Tenn.
BUEHLER, HUBERT GEORGE, B.S.,	Maryville College, 1953.	Cedar Rapids, Iowa
BURRUS, ROGER BYRON, B.A.,	Vanderbilt University, 1950.	Nashville, Tenn.
CARLISLE, BOB BYRON, B.A.,	Vanderbilt University, 1954.	Sylacauga, Ala.
CARNEY, EDWARD KENT, B.A.,	Vanderbilt University, 1954.	Nashville, Tenn.
CARRATT, JAMES ANGELO, B.S.,	University of Florida, 1953.	Starke, Fla.
DAVIS, JAMES WILLIAM, JR., B.A.,	Vanderbilt University, 1954.	Nashville, Tenn.
DIAMOND, MARSHALL ALLAN, B.A.,	Vanderbilt University, 1954.	Louisville, Ky.
DVORAK, BENJAMIN ANTHONY, B.A.,	University of Minnesota, 1952.	Minneapolis, Minn.
FIELDS, JOHN PERSHING, B.A.,	Vanderbilt University, 1954.	Nashville, Tenn.
FISHER, BENJAMIN, B.A.,	Vanderbilt University, 1954.	Tel Aviv, Israel
FLEET, HARVEY MAYER, A.B.,	Harvard University, 1953.	Fort Walton Beach, Fla.
FOX, MAURICE, B.A.,	Vanderbilt University, 1954.	Chattanooga, Tenn.
GASS, JOHN DONALD MCINTYRE, B.A.,	Vanderbilt University, 1950.	Nashville, Tenn.
GRIFFIN, NEWTON BRAMBLETT, B.A.,	Vanderbilt University, 1954.	Nashville, Tenn.
GRISHAM, JOE WHEELER, B.A.,	Vanderbilt University, 1953.	Brush Creek, Tenn.
HADLEY, JUNE LAWLER, B.A.,	Vanderbilt University, 1954.	Nashville, Tenn.
HAYS, JAMES WILLIAM, B.A.,	Vanderbilt University, 1954.	Bluefield, W. Va.
HEIMBURGER, IRVIN LEROY, A.B.,	Drury College, 1953.	Springfield, Mo.
HOLMES, JOHN PIERCE, JR., B.A.,	Vanderbilt University, 1954.	Lexington, Tenn.
IRISH, NELL LOUISE, B.S.,	University of Miami, 1952.	Miami, Fla.
JOHNSON, ROBERT ARMSTRONG, B.S.,	University of Florida, 1953.	Gainesville, Fla.
JONES, STEWART GORDON, B.A.,	Vanderbilt University, 1954.	Port Washington, N. Y.
KALMAN, CORNELIUS F., A.B.,	University of California, 1943.	Berkeley, Cal.
MAZUR, BERTHA KATHERINE, B.S.,	University of Pittsburgh, 1947.	Ambridge, Pa.
MCCRARY, WILLIAM HERBERT, JR., B.A.,	Vanderbilt University, 1954.	Paris, Tenn.
MCCROSKEY, DAVID LEQUIRE, B.A.,	Vanderbilt University, 1953.	Walland, Tenn.
MCKRE, LONNIE CLIFFORD, JR., B.A.,	Vanderbilt University, 1954.	Nashville, Tenn.
MILLER, CHARLES EDWARD, B.S.,	Ohio State University, 1953.	Columbus, Ohio
MINOR, THOMAS MCSWAIN, B.A.,	Vanderbilt University, 1954.	Paris, Tenn.
PHILLIPY, FRANK EMORY, II, B.S.,	Mount Union College, 1954.	St. Petersburg, Fla.
PRATHER, JAMES RICHARD, B.S.,	University of Arkansas, 1954.	Memphis, Tenn.
SANDT, JOHN JOSEPH, B.A.,	Vanderbilt University, 1948.	Queens Village, L. I., N. Y.
SCAMMAN, WILLARD WIKK, B.A.,	Westminster College, 1953.	Rock Port, Mo.
SCOTT, SAMUEL ELBERT, B.S.,	Western Kentucky State College, 1954.	Rumsey, Ky.
SHARP, VERNON HIBBETT, III, B.A.,	Vanderbilt University, 1953.	Franklin, Tenn.

NAME	INSTITUTION	HOME ADDRESS
SILBER, DAVID LAWRENCE, JR., B.A.,	Vanderbilt University, 1954.....	Nashville, Tenn.
SLAYTON, PAUL ERNEST, JR., B.A.,	Vanderbilt University, 1954.....	Madisonville, Ky.
SNYDER, WILLIAM BRADFORD, B.S.,	University of Kentucky, 1953.....	Frankfort, Ky.
SPICKARD, WILLIAM ANDERSON, JR., B.A.,	Vanderbilt University, 1953.....	Nashville, Tenn.
STONE, GERALD EISNER, B.A.,	Vanderbilt University, 1954.....	Brooklyn, N. Y.
STONE, WALTER NATHAN, B.A.,	Colorado College, 1953.....	Chicago, Ill.
SUTHERLAND, HUGH LEWIS, JR., B.A.,	Vanderbilt University, 1954.....	Itta Bena, Miss.
THORSGARD, ERNEST OLIVER, B.A.,	University of North Dakota, 1953; B.S. in Medicine, Univ. of N. D., 1954.....	Northwood, N. D.
TREADWELL, TANDY WALTER, JR., B.A.,	Vanderbilt University, 1954.....	Miami, Fla.
TURMAN, ALFRED EUGENE, B.A.,	Vanderbilt University, 1954.....	Nashville, Tenn.
WEST, WILLIAM GASTON, JR., B.A.,	Vanderbilt University, 1954.....	Madisonville, Ky.
WOLFF, SHELDON MALCOLM, B.S.,	University of Georgia, 1952.....	Newark, N. J.
WRIGHT, JOHN HANDLEY, JR., B.A.,	Vanderbilt University, 1953.....	Nashville, Tenn.
ZAIMAN, HERMAN, B.A.,	State University of Iowa, 1938.....	San Francisco, Cal.

SECOND-YEAR CLASS

Session September, 1955—June, 1956

ADKINS, ROBERT BENTON, JR., B.S.,	Austin Peay State College, 1954.....	Hickory Point, Tenn.
ADLER, RICHARD CHARLES, B.A.,	Vanderbilt University, 1955.....	Miami Beach, Fla.
BANCROFT, BURTON RICHARD, JR., B.S.,	The Citadel, 1954.....	Kearney, Nebr.
BARNETT, PAUL HAROLD, B.A.,	Vanderbilt University, 1955.....	Nashville, Tenn.
BATSON, JACK MILLER, B.A.,	Vanderbilt University, 1955.....	Nashville, Tenn.
BLACKBURN, JOHN PORTER, B.A.,	Vanderbilt University, 1955.....	Frankfort, Ky.
CALLISON, JAMES RAY, B.S.,	Western Kentucky State College, 1955.....	Columbia, Ky.
CHUNG, MOON YONG,	Seoul University, Korea.....	Seoul, Korea
CLANTON, JERRY NED, B.S.,	Mississippi College, 1954.....	Savannah, Ga.
CUNNINGHAM, RUSSELL D., A.B.,	Miami University, 1954.....	Nashville, Tenn.
DIAMOND, PAUL HARVEY, A.B.,	Duke University, 1953.....	Roslyn, N. Y.
DOUGLAS, JOHN BOYD, B.A.,	Vanderbilt University, 1955.....	Mobile, Ala.
ELMORE, STANLEY McDOWELL, B.A.,	Vanderbilt University, 1955.....	Sheffield, Ala.
FATUM, PAUL JAMES, B.S.,	University of Notre Dame, 1952.....	Van Wert, Ohio
FLEET, WILLIAM FLOYD, JR., B.A.,	Vanderbilt University, 1955.....	Inverness, Miss.
FLEMING, JAMES HOWARD, JR., B.A.,	Vanderbilt University, 1955.....	Columbia, S. C.
FOSTER, HUGH MASON, JR., B.A.,	Denison University, 1954.....	Toledo, Ohio
FRANKLIN, JOHN BROWNELL, A.B.,	Harvard College, 1954.....	Maryville, Tenn.
FRANKS, ROBERT CECIL, B.A.,	Vanderbilt University, 1955.....	Sheffield, Ala.
GERBER, PAUL ULYSSES, JR., B.A.,	Vanderbilt University, 1955.....	Miami, Fla.
GLOVER, JOHN LEE, B.A.,	Vanderbilt University, 1955.....	Nashville, Tenn.
GOLDFARB, EDWARD, B.S.,	Purdue University, 1955.....	Bronx, N. Y.
GRAY, DAVID WARREN, B.A.,	Westminster College, 1954.....	Hull, Ill.
GRIFFEY, WALTER PLUMMER, JR., B.A.,	Vanderbilt University, 1955.....	Baltimore, Md.
GROSS, BERNARD G., B.S.,	University of Miami, 1954.....	Goulds, Fla.
GROSS, EDWARD F., B.S.,	University of Miami, 1954.....	Miami, Fla.
HEIMBERG, MURRAY, B.S., 1948; M.S., 1949,	Cornell University; Ph.D., Duke University, 1952.....	Nashville, Tenn.
HORN, ROBERT GORDON, B.A.,	Vanderbilt University, 1954.....	Antioch, Tenn.
HUCHTON, PAUL JOSEPH, B.A.,	Texas Western College, 1954.....	El Paso, Tex.
JOHNSON, JAMES WILLIAM, B.A.,	Vanderbilt University, 1954.....	Dallas, Tex.
JONES, ERWIN ARTHUR, JR., B.A.,	Vanderbilt University, 1955.....	Fort Benning, Ga.

NAME	INSTITUTION	HOME ADDRESS
KALMAN, SERENA THOMPSON, A.B.,	San Jose State College, 1947; M.A., University of California, 1948.....	Menlo Park, Cal.
KIGER, ROBERT GARY, B.S.,	University of South Carolina, 1954.....	Columbia, S. C.
KING, JOSEPH AUSTIN, B.A.,	Vanderbilt University, 1955.....	Kingsport, Tenn.
MALGRAT, JAMES DAVID, B.S.,	University of Miami, 1954.....	Key West, Fla.
MORRIS, MYRON B.A.,	University of Pennsylvania, 1945; M.S., 1951; Ph.D., 1953, University of Wisconsin.....	Philadelphia, Pa.
NICHOLSON, JOHN FRANCIS, B.A.,	Vanderbilt University, 1955.....	Oklahoma City, Okla.
OWEN, JULIAN LEE, B.A.,	Vanderbilt University, 1955.....	Shelby, Miss.
PEACOCKE, IVAN LEE, B.A.,	Central College, 1954.....	Gallatin, Mo.
PIERCE, CLOVIS H., B.A.,	Vanderbilt University, 1955.....	Nashville, Tenn.
RHEA, WILLIAM GARDNER, JR., B.A.,	Vanderbilt University, 1955.....	Paris, Tenn.
SANDSTEAD, HAROLD HILTON, B.A.,	Ohio Wesleyan University, 1954.....	Silver Springs, Md.
SERGEANT, RONALD LEE, B.S.,	University of Kentucky, 1954.....	Lexington, Ky.
SILBERT, BURTON, A.B.,	New York University, 1954.....	Brooklyn, N. Y.
SNELL, JAMES DANIEL, B.S.,	Centenary College, 1954.....	Shreveport, La.
TAYLOR, CHARLES WHITE, B.A.,	Vanderbilt University, 1955.....	Frankfort, Ky.
WALKER, SAMUEL RAY, B.A.,	Vanderbilt University, 1955.....	Nashville, Tenn.
WALTZ, TOM ALLEN, B.S.,	University of Cincinnati, 1954.....	Cincinnati, Ohio
WATKINS, McLEOD McINNIS, B.A.,	Vanderbilt University, 1955.....	Handsboro, Miss.

FIRST-YEAR CLASS

Session September, 1955—June, 1956

ABERNATHY, ANDREW HAWKINS, Sr. in Absentia,	Vanderbilt University, Jonesboro, Ark.	
AMRA, WALIED NASIR, B.A.,	Vanderbilt University, 1955.....	Bireh, Jordan
ANDERSON, JAMES ERWIN, JR., Sr. in Absentia,	Vanderbilt University.....	Nashville, Tenn.
ANDERSON, WILLIAM CLYDE, Sr. in Absentia,	Vanderbilt University.....	Dyersburg, Tenn.
BARROW, JOHN ARMSTRAD, III, B.S.,	Emory and Henry College, 1955.....	Abingdon, Va.
BIBB, RICHARD EDWARD, Sr. in Absentia,	Vanderbilt University.....	Nashville, Tenn.
BLACKBURN, JAMES EDWARD, Sr. in Absentia,	Vanderbilt University.....	Frankfort, Ky.
BLAIR, ROBERT MURRELL, B.E.,	Vanderbilt University, 1952.....	Hartsville, Tenn.
BLANKENSHIP, WILLARD, Sr. in Absentia,	W. Kentucky State College, Westmoreland, Tenn.	
CATE, THOMAS RANDOLPH, Sr. in Absentia,	Vanderbilt University.....	Nashville, Tenn.
COCHRAN, ROBERT TAYLOR, Sr. in Absentia,	Vanderbilt University.....	Nashville, Tenn.
DORTON, ROBERT KING, A.B.,	Berea College, 1955.....	Pikeville, Ky.
DUMMIT, ELDON STEVEN, JR., B.S.,	University of Kentucky, 1955.....	Lexington, Ky.
DUNN, NANCY PHYLLIS, B.A.,	Maryville College, 1955.....	Maryville, Tenn.
EVANS, JACK FARMER, Sr. in Absentia,	Vanderbilt University.....	Montgomery, Ala.
GRADY, GEORGE FRANCIS, B.S.,	University of Kentucky, 1955.....	Lexington, Ky.
GREENBERG, JOEL IRVING, Sr. in Absentia,	Vanderbilt University.....	Nashville, Tenn.
HINSHAW, RODRICK J., A.B.,	Miami University, 1955.....	Hollansburg, Ohio
HOLLINS, GORDON, A.B.,	Centre College, 1955.....	Nashville, Tenn.
HOLT, JACK BOYD, B.S.,	Carson-Newman College, 1955.....	Jefferson City, Tenn.
JAFFE, JACK APPLEBAUM, Sr. in Absentia,	Vanderbilt University.....	Somerset, Ky.
JOHNSON, ANDREW MYRON, A.B.,	Asbury College, 1955.....	Wilmore, Ky.
JOLLY, PHILIP CLAYTON, Sr. in Absentia,	Vanderbilt University.....	Montgomery, Ala.
KELLER, ROBERT HENRY, Sr. in Absentia,	University of Alabama.....	Dayton, Ohio
LUTHER, GEORGE AUBREY, A.B.,	Central College, 1955.....	Louisiana, Mo.
MARTIN, JAMES DOUGLAS, B.A.,	Vanderbilt University, 1949; M.A., Peabody College, 1954.....	Nashville, Tenn.
MOORE, MERRILL DENNIS, JR., B.S.,	Peabody College, 1955.....	Nashville, Tenn.
NEWMAN, MATTHEW, Sr. in Absentia,	Vanderbilt University.....	Brooklyn, N. Y.
PAGE, HARRY LEE, Sr. in Absentia,	Vanderbilt University.....	Gainesboro, Tenn.

NAME	INSTITUTION	HOME ADDRESS
PARTAIN, ROBERT ABNER, Sr. in Absentia,	Vanderbilt University	Nashville, Tenn.
PIERCE, STIRLING HOOVER, A.B., 1953; M.A., 1955,	Stanford Univ.,	Santa Barbara, Cal.
REED, JOHN MARTIN, B.S., Davidson College, 1955		Nashville, Tenn.
RENFROE, SAMUEL LEON, B.S., University of Florida, 1955		Starke, Fla.
RICHE, BOBBY GENE, B.S., University of Kentucky, 1955		Paris, Ky.
SANGER, MARILYN JANETT, B.A., University of Oklahoma, 1954		Purcell, Okla.
SEAT, STANLEY GLENN, Sr. in Absentia,	Vanderbilt University	Nashville, Tenn.
SHACKELFORD, JOSEPH ROY, III, Sr. in Absentia,	Vanderbilt University,	Columbia, Tenn.
SHEPARD, FRANK MICHAEL, Sr. in Absentia,	Vanderbilt University	Tampa, Fla.
SHINE, LEE CHADWICK, A.B., University of Kentucky, 1955		Lexington, Ky.
SMITH, RAPHAEL FORD, B.A., Vanderbilt University, 1955		Owensboro, Ky.
SNYDER, HAROLD EMIL, B.S., Purdue University, 1955		Cloverdale, Ind.
SOLOMON, ALEXANDRE, Sr. in Absentia,	University of Wisconsin	New York, N. Y.
STRAYHORN, WILLIAM DAVID, III, Sr. in Absentia,	Vanderbilt Univ.,	Nashville, Tenn.
THOMAS, EMIL DEWEY, SR., in Absentia,	Vanderbilt University	Knoxville, Tenn.
TINSLEY, ELLIS ALLEN, SR. in Absentia,	Vanderbilt University	Russellville, Ala.
TURNER, DOROTHY JEAN, B.A., 1949; M.A., 1951,	Vanderbilt University	Nashville, Tenn.
WALKER, ANDREW WILLIAM, A.B., Westminster College, 1955		Papaaloo, Hawaii
*WEIDMAN, THOMAS ALLEN, B.S., Illinois Wesleyan University, 1955		Savanna, Ill.
WEINBERG, WARREN ABRAHAM, SR. in Absentia,	Vanderbilt University	Osceola, Ark.
WEITZMAN, STEPHEN, SR. in Absentia,	Vanderbilt University	Brooklyn, N. Y.
WOHL, RICHARD HILBURN, A.B., Harvard University, 1955		Birmingham, Ala.

DIVISION OF AUDIOLOGY AND SPEECH

Students listed below received the degree of Master of Science in Audiology and Speech:

AUGUST 1955

ELLIOTT, CHARLOTTE MARION, B.A.	Nashville, Tenn.
JONES, MARLIN, B.A.	Memphis, Tenn.

JUNE 1956

RYBERG, MERLE STEVENS	Nashville, Tenn.
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Enrollment—September 1955—August 1956

CENTER, WILLIAM RUSSELL, B.A., 1948; M.A., 1950,	George Peabody College	Madison, Tenn.
DRENNAN, DOROTHEA MAE, B.A., Southwestern College, 1955		Winfield, Kan.
ENGLAND, HARRY GENE, B.S., University of Minnesota, 1955		Orange City, Iowa
FINE, EILEEN, B.A., University of Toronto, 1952		Poughkeepsie, N. Y.
FRISTOE, MACALYNE WATKINS, B.A., Vanderbilt University, 1953		Nashville, Tenn.
HORTON, KATHRYN BARTH, M.S., Vanderbilt University, 1953		Nashville, Tenn.
MEREDITH, JEAN MARGARET, A.B., Rosemont College, 1952		Pennington, N. J.
PERRY, DORIS ANN, B.S., East Tennessee State College, 1954		Washington College, Tenn.
PERRY, EFFIE KATHRYN, A.B., Wesleyan College, 1952		Bradentown, Fla.
RYBERG, MERLE STEVENS, B.A., University of North Carolina, 1949		Nashville, Tenn.
STIFLER, JULIA FAIRMAN, A.B., Smith College, 1944		Nashville, Tenn.
TEMPLETON, MARTHA CAROL, B.S., Mississippi Southern College, 1953		Centreville, Miss.

* Withdrew voluntarily

INTERNSHIPS

CLASS OF JUNE, 1955

NAME	HOSPITAL	HOME ADDRESS
ALTSTATT, ALICE HACKNEY	University of California Hospital, San Francisco, Cal.	Finksburg, Md.
ALTSTATT, LESLIE BOYD	Letterman Army Hospital, San Francisco, Cal.	Yuma, Ariz.
BAKER, THOMAS HEATT, JR.	Duke Hospital, Durham, N. C.	Frankfort, Ky.
BEISEL, LARRY HOMAN	Vanderbilt University Hospital, Nashville, Tenn.	Pine Bluff, Ark
BIERI, DIXON L.	University Hospital, Ann Arbor, Mich.	Stanley, N. D.
BOPP, RAYMOND KARL	Grace-New Haven Community Hospital, New Haven, Conn.	Kirkwood, Mo.
BRADBURN, HUBERT BENJAMIN	Grace-New Haven Community Hospital, New Haven, Conn.	Springfield, Ill.
CALLAWAY, JAMES MILLER	Duke Hospital, Durham, N. C.	Maryville, Tenn.
CARMICHAEL, ARCHIE HILL, III	North Carolina Baptist Hospital, Winston-Salem, N. C.	Tuscumbia, Ala.
CARNES, EDWIN RAYMOND	St. Thomas Hospital, Nashville, Tenn.	Wilmore, Ky.
COLLINS, JOHN RICHARD	Barnes Hospital, St. Louis, Mo.	Monterey, Tenn.
COUCH, ROBERT BERNARD	Vanderbilt University Hospital, Nashville, Tenn.	Guntersville, Ala.
DAVIDSON, EUGENE TAYLOR	Barnes Hospital, St. Louis, Mo.	Birmingham, Ala.
DAVIS, WILLIAM SIMMONS	University Hospital, Jackson, Miss.	Flora, Miss.
DAVISON, JUDSON ADELBERT	Jefferson Davis Hospital, Houston, Tex.	Miami, Fla.
EDWARDS, HARRY ALFRED, JR.	Vanderbilt University Hospital, Nashville, Tenn.	Miami, Fla.
FELTS, PHILIP WYATT	Vanderbilt University Hospital, Nashville, Tenn.	Nashville, Tenn.
FRYE, ROBERT LEO	John Hopkins Hospital, Baltimore, Md.	Oklahoma City, Okla.

NAME	HOSPITAL	HOME ADDRESS
GASKINS, FAY RICE	Children's Hospital, Los Angeles, Cal.	Campbell, Mo.
GILLEN, JOHN CRAWFORD	Toledo Hospital, Toledo, Ohio	Wellston, Ohio
GRIFFIN, ROBERT STEWART	Ohio State University Hospital, Columbus, Ohio	Hopkinsville, Ky.
HAGSTROM, RUTH MURRAY	St. Thomas Hospital, Nashville, Tenn.	State College, Miss.
HARDIN, ROBERT A.	Indiana University Medical Center, Indianapolis, Ind.	Lexington, Ky.
HUNTER, WILLIAM ARMSTRONG, JR.	Duke Hospital, Durham, N. C.	Gainesville, Fla.
JERNIGAN, WILLIAM N.	Vanderbilt University Hospital, Nashville, Tenn.	Beaumont, Tex.
JONAS, A. GARLAND, JR.	New York Hospital, New York, N. Y.	Ponte Vedra Beach, Fla.
KALBAC, JOSEPH JEROME	St. Louis City Hospital, St. Louis, Mo.	St. Louis, Mo.
KISTLER, PHILIP C.	Duke Hospital, Durham, N. C.	Signal Mountain, Tenn.
MAY, RUSSELL LEON	Indiana University Medical Center, Indianapolis, Ind.	Farmersburg, Ind.
MILLER, JOHN MAURICE	Indiana University Medical Center, Indianapolis, Ind.	Nashville, Tenn.
MILLER, ROBERT BROWN	University of California Hospital, San Francisco, Cal.	Murray, Ky.
NACHMAN, RALPH LOUIS	Vanderbilt University Hospital, Nashville, Tenn.	Bayonne, N. J.
NEVILLE, CHARLES WILLIS, JR.	Vanderbilt University Hospital, Nashville, Tenn.	Birmingham, Ala.
PARKER, WILLIAM PAXTON, JR.	North Carolina Memorial Hospital, Chapel Hill, N. C.	Nashville, Tenn.
PIERCE, ALEXANDER WEBSTER, JR.	Vanderbilt University Hospital, Nashville, Tenn.	Wichita Falls, Tex.
ROANE, JOURDAN ARCHIBALD	Vanderbilt University Hospital, Nashville, Tenn.	Iuka, Miss.
RUSSELL, RICHARD OLNEY, JR.	Peter Bent Brigham Hospital, Boston, Mass.	Birmingham, Ala.
SAMPSON, LOUIS	Nashville-Vanderbilt Affiliated Hospitals, Nashville, Tenn.	Nashville, Tenn.

NAME	HOSPITAL	HOME ADDRESS
SPALDING, ROBERT T.	North Carolina Memorial Hospital, Chapel Hill, N. C.	East Cleveland, Ohio
SPEAR, CURTIS VARNELL, JR.	University of Virginia Hospital, Charlottesville, Va.	Columbus, Ga.
SWAN, JACK TURNER	Vanderbilt University Hospital, Nashville, Tenn.	Fort Valley, Ga.
TALBERT, JAMES LEWIS	Johns Hopkins Hospital, Baltimore, Md.	Hopkinsville, Ky.
THOMPSON, CHARLES R., JR.	Henry Ford Hospital, Detroit, Mich.	West Plains, Mo.
TOLSON, ROBERT EDWARD, JR.	University of Minnesota Hospitals, Minneapolis, Minn.	Washington, D. C.
WARNER, JOHN SLOAN	Nashville-Vanderbilt Affiliated Hospitals, Nashville, Tenn.	Nashville, Tenn.
WELLS, THOMAS LEON	University of Virginia Hospital, Charlottesville, Va.	Miami, Fla.
WILLIAMS, WILSON CARTER, JR.	Vanderbilt University Hospital, Nashville, Tenn.	Nashville, Tenn.
WOLF, GERALD LIEBERS	Maimonides Hospital, Brooklyn, N. Y.	Brooklyn, N. Y.
WOODHEAD, DAVID M.	Duke Hospital, Durham, N. C.	Falmouth, Ky.
WOOLEY, OTIS BURTON, JR.	Vanderbilt University Hospital, Nashville, Tenn.	Marks, Miss.
YARBROUGH, W. MURRAY, JR.	Vanderbilt University Hospital, Nashville, Tenn.	Athens, Ala.

MEDALS, PRIZES AND SCHOLARSHIPS

FOR THE YEAR 1955-1956

FOUNDER'S MEDAL FOR SCHOLARSHIP

JAMES LEWIS TALBERT.....Hopkinsville, Ky.

AMERICAN ACADEMY OF DENTAL MEDICINE AWARD

Established to further the correlation of dentistry and medicine and awarded to the fourth-year student showing the highest degree of interest and proficiency in dental medicine.

JOSEPH JEROME KALBACH.....St. Louis, Mo.

BEAUCHAMP SCHOLARSHIP

Endowed and awarded in the School of Medicine in the Department of Psychiatry.

DIXON L. BIERI.....Stanley, N. D.

BORDEN UNDERGRADUATE RESEARCH AWARD IN MEDICINE

Awarded for the most meritorious undergraduate research in the medical field.

WILLIAM SIMMONS DAVIS.....Flora, Miss.

THE MERRELL AWARD IN PATHOLOGY

Awarded annually for outstanding research papers in the field of Pathology by Vanderbilt University medical students.

JAY FREDERICK LEWIS, II.....Roswell, N. Mex.

THE G. CANBY ROBINSON AWARD (LASKER FOUNDATION)

Awarded for the best clinical history recorded by a third-year student.

BERTHA KATHERINE MAZUR.....Ambridge, Pa.

ALPHA OMEGA ALPHA

Scholarship Society of the School of Medicine

FOURTH-YEAR CLASS

LESLIE BOYD ALTSTATT.....	Yuma, Ariz.
ROBERT BARNARD COUCH.....	Guntersville, Ala.
EUGENE TAYLOR DAVIDSON.....	Birmingham, Ala.
WILLIAM SIMMONS DAVIS.....	Flora, Miss.
ROBERT LEO FRYE.....	Oklahoma City, Okla.
RALPH LOUIS NACHMAN.....	Bayonne, N. J.
CHARLES WILLIS NEVILLE, JR.....	Birmingham, Ala.
RICHARD OLNEY RUSSELL, JR.....	Birmingham, Ala.
JAMES LEWIS TALBERT.....	Hopkinsville, Ky.
WILSON CARTER WILLIAMS, JR.....	Nashville, Tenn.

THIRD-YEAR CLASS

JOHN DONALD MCINTYRE GASS.....	Nashville, Tenn.
JUNE LAWLER HADLEY.....	Nashville, Tenn.
CORNELIUS F. KALMAN.....	Berkeley, Cal.

**SCHEDULE OF COURSES
FOR DATES SEE CALENDAR, PAGE 5
FIRST YEAR—FIRST SEMESTER**

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00-11:00	Gross Anatomy	Gross Anatomy	Gross Anatomy	Gross Anatomy	Gross Anatomy	Gross Anatomy
11:00-12:00		Gross Anatomy	Social and Environmental Medicine	Gross Anatomy		
1:00-2:00			Seminar Social and Environmental Medicine			
2:00-3:00	Histology and Neurology	Histology and Neurology	*Library	Gross Anatomy	Histology and Neurology	
3:00-5:00			**Social and Environmental Medicine Family Visits			

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

**Two one-half hour conferences for each student with Medical and Social Work Consultants respectively and one family visit between opening of school and Christmas vacation. Total time per student, four hours. Family visit not restricted to Wednesday afternoon but may be made at any free time.

FIRST YEAR—SECOND SEMESTER

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00-9:00	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology
9:00-11:00	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology
11:00-12:00			Social and Environmental Medicine			
1:00-2:00			Seminar Social and Environmental Medicine			
2:00-3:00	Biochemistry	Physiology	*Library	Physiology	Biochemistry	
3:00-5:00			**Social and Environmental Medicine Family Visits			

*Five sessions of ten students each for one hour on successive Wednesdays. Total time per individual student, two hours.

**Three one-half hour conferences with Medical and Social Work Consultants respectively and three family visits per student between January and the end of the school year. Total time per student, nine hours. Family visits not restricted to Wednesday afternoon but may be made at any free time.

SECOND YEAR—FALL QUARTER

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00-11:00	Pathology	Pathology	Pathology	Pathology	Pathology	Microbiology
11:00-12:00	Microbiology	Medical Statistics or Environmental Medicine Family Visits	Social and Environmental Medicine	Medical Statistics or Environmental Medicine Family Visits	Microbiology	
1:00-5:00	Microbiology	*Social and Environmental Medicine Family Visits	Microbiology	*Social and Environmental Medicine Family Visits	Microbiology	

*One one-half hour consultation with Medical and Social Work Consultants respectively and two family visits per student between the beginning of school year and Christmas vacation. Total time per student, five hours. Family visits not restricted to Tuesday afternoon but may be made at any free time.

SECOND YEAR—WINTER QUARTER

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00-9:00	*Microbiology	Pathology	Pharmacology	**Neurology	Pathology	Pathology
9:00-11:00	**Neurology			*Microbiology		
11:00-12:00	Pharmacology	*Microbiology **Pharmacology ***Social and Environmental Medicine Family Visits	Pharmacology	Pharmacology	***Social and Environmental Medicine Family Visits	Pharmacology
1:00-2:00	Pathology			Pharmacology		
2:00-5:00						

*First three weeks of quarter.

**Remainder of quarter.

***Three one-half hour conferences with Medical and Social Work Consultants respectively and three family visits per student between January and May. Total time per student, nine hours. Family visits not restricted to Tuesday and Friday afternoons but may be made at any free time.

SECOND YEAR—SPRING QUARTER(*)(**)

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00-9:00	Introduction to Clin. Med.	Introduction to Clin. Med.	Introduction to Clin. Med.	Introduction to Clin. Med.	Introduction to Clin. Med.	Introduction to Clin. Med.
9:00-10:00	Intro. Clin. Med.	Psychodynamics	Intro. Clin. Med.	Intro. Clin. Med.	Intro. Clin. Med.	Intro. Clin. Med.
10:00-11:00	Clinical Pathology	Intro. Clin. Med.	Psychodynamics	Clinical Pathology	Psychodynamics	
11:00-12:00	Nutrition	Intro. Clin. Med.	Obstetrics	Intro. Clin. Med.	Nutrition	Obstetrics
1:00-2:00	Intro. Clin. Med.	***Social and Environmental Medicine Family Visits	Intro. Clin. Med.	Intro. Clin. Med.		
2:00-4:00	Clinical Pathology		$\frac{1}{2}$ class Physical Diagnosis $\frac{1}{2}$ class Radiology	Clinical Pathology	$\frac{1}{2}$ class Physical Diagnosis $\frac{1}{2}$ class Radiology	
4:00-5:00						

N. B. Introduction to Clinical Medicine is a correlated course of lectures and demonstrations designed to prepare the student for the clinical clerkship.

*There is an extension of four weeks in June in the second year for an introductory clinical clerkship with the time divided between the clinical services.

****Social and Environmental Medicine II.**—Will be scheduled during this quarter. Hours to be announced later.

***Three one-half hour conferences with Medical and Social Work Consultants respectively and three family visits per student between January and the end of school year. Total time per student, nine hours. Family visits not restricted to Tuesday afternoon but may be made at any free time.

THIRD YEAR
FALL, WINTER AND SPRING QUARTERS

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00-9:00	Dermatology (F) Neurology (W) Radiology (S)	Pediatrics (F) Pediatrics (W) Pediatrics (S)	ENT & Ophthalmology (F) Gynecology (W) Gynecology (S)	Psychiatry (F) Psychiatry (W) Psychiatry (S)	Surgery (F) Surgery (W) Surgery (S)	Neurology (F) Prev. Med. (W) Prev. Med. (S)
9:00 to 12:00	Terms: Groups A Groups C Groups B	(Fall) A C B	(Winter) B A C	(Spring) C B A	Medical Ward Work Surgical Clinic Work (1) One half group—Pediatrics (2) One half group—Obstetrics	
1:00 to 4:00	Surgical Pathology					
4:00-5:00	Obs.-Gyn.	Medicine	Surgery	Pediatrics	C. P. C.	

FOURTH YEAR

FALL, WINTER AND SPRING QUARTERS

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00-9:00						Medicine (F) Medicine (W) Medicine (S)
9:00-10:00	Terms: (Fall) (Winter) (Spring)					
10:00-11:00	Groups A Groups C Groups B	B A C	C B A	Medical Clinic Work Surgical Ward Work (1) One half group—Pediatrics (2) One half group—Obstetrics		Cancer (F) Cancer (W) Cancer (S)
11:00-12:00						Medical Juris- prudence (W) Medicine and Society (S)
1:00 to 4:00	Psychiatry and Prev. Med. Infrequently or Part of Class or Pediatric Heart Clinic				Psychiatry and Prev. Med. Infrequently or Part of Class	
4:00-5:00	Obs.-Gyn.	Medicine	Surgery	Pediatrics	C. P. C.	