

VANDERBILT
UNIVERSITY



School of Medicine

1963-64

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School of Medicine

1963-64



*Containing general information, appointments,
and courses of study for the 1963-64 session,
corrected to September 1, 1963* ✓ NASHVILLE

School of Medicine Calendar, 1963-64

September 3, Tuesday	Registration for third year students
September 4, Wednesday	Fall quarter instruction begins for third and fourth year students
September 9-10, Mon.-Tues.	Registration for first and second year students and orientation for first year students
September 11, Wednesday	Instruction begins for first and second year students
November 23, Saturday	Fall quarter ends for third and fourth year students
November 25, Monday	Winter quarter begins for third and fourth year students
November 28, Thursday	Thanksgiving Day: a holiday
November 30, Saturday	Fall quarter ends for second year students
December 2, Monday	Winter quarter begins for second year students
December 21, Saturday	Christmas vacation begins at 12 o'clock (noon)
January 6, Monday	Instruction resumes at 8 a.m.
January 29, Wednesday	Fall semester ends for first year students
January 30, Thursday	Spring semester begins for first year students
February 29, Saturday	Winter quarter ends for third and fourth year students
March 2, Monday	Spring quarter begins for third and fourth year students
March 5, Thursday	Winter quarter ends for second year students
March 6, Friday	Spring Quarter begins for second year students
March (2 days)	Basic Science Examinations, second year students
April 21-22, Tues.-Wed.	National Board Examinations for all fourth year students (Part II)
May 22, Friday	Spring term instruction ends
May 23-27, Sat.-Wed.	Examination Period
May 31, Sunday	Commencement exercises
June 8, Monday	Registration for fourth year students, Summer quarter: Instruction begins
June 23-24, Tues.-Wed.	National Board Examinations for all second year students (Part I)
July 4, Saturday	Independence Day: a holiday
August 29, Saturday	Summer quarter ends for fourth year students

Table of Contents

SCHOOL CALENDAR.....	2
INTRODUCTION.....	5
<i>Map of the Campus</i>	6
<i>Trustees and Administrative Officers</i>	8
<i>School of Medicine Administration</i>	10
<i>Hospital Administration</i>	14
<i>Hospital Staff</i>	17
<i>Staff Officers of the Outpatients Service</i>	25
GENERAL INFORMATION.....	28
<i>Medical Center Buildings</i>	28
<i>Medical Library</i>	30
<i>Lectureships</i>	31
<i>Endowed Research Chair</i>	32
<i>Endowed Research Funds</i>	32
<i>Fellowships and Residencies</i>	33
<i>Student Research Program</i>	33
<i>Medical Society</i>	34
ADMISSION.....	35
<i>Minimum Requirements</i>	35
<i>Medical College Admission Test</i>	36
<i>Applications</i>	36
<i>Admission to Advanced Standing</i>	36
<i>Student Health Service</i>	36
REGULATIONS.....	38
<i>Examinations and Promotions</i>	38
<i>Requirements for Doctor of Medicine Degree</i>	39
<i>National Board Examinations</i>	39
<i>Basic Science Examinations</i>	39
<i>Extracurricular Work</i>	39
<i>Honors and Awards</i>	39
EXPENSES.....	41
<i>Tuition and Fees</i>	41
<i>Microscopes, Books, etc.</i>	42
<i>Scholarships and Other Financial Assistance</i>	42
<i>Living Arrangements</i>	43
PLAN OF INSTRUCTION.....	45
<i>Military and Disaster Medicine</i>	46
<i>Postdoctoral Courses</i>	46
<i>Courses toward Master and Ph.D. Degrees</i>	46
<i>Schedule of Courses</i>	47
COURSES OF STUDY.....	54
<i>Preclinical Departments</i>	Alphabetically arranged, beginning page 54
<i>Clinical Departments</i>	Alphabetically arranged, beginning page 61
<i>Audiology and Speech Pathology</i>	84
REGISTER OF STUDENTS.....	89

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GENERAL INFORMATION

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

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

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

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

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

MEDICAL CENTER BUILDINGS

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

United States." Over the years additions have been made to keep the research and clinical facilities abreast of new developments. The Medical Center buildings now encompass in excess of 650,000 square feet of floor space.

Recent additions include:

The Andrew B. Learned Graduate Science Hall, a laboratory for research in the sciences basic to medicine and health-related research being conducted by members of the University's Graduate Faculty. This building, which joins the main building on the east, was completed in 1961.

The West Wing addition to Vanderbilt University Hospital, a 154-bed patient care facility completed in 1962. This wing, which joins the main building at the southwest corner, is circular in shape with the nursing station located in the center surrounded by a larger circle containing patient rooms.

The Clinical Research Center, a United States Public Health Service regional facility for research in clinical medicine. This unit contains 21 beds and approximately 10,000 square feet of laboratory space. At the time of its opening it was the largest noncategorical clinical research center in the nation.

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

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

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

The hospital contains 513 beds and 26 bassinets divided into the following seven service units: medicine, surgery, obstetrics, gynecology, pediatrics, ophthalmology, and psychiatry. The entire hospital is staffed by members of the teaching faculty of the School of Medicine.

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

The outpatient clinics are located on the first floor of the Garland Avenue side of the building. They are especially designed for teaching and contain a series of examining, treatment, and teaching rooms for general medicine and surgery, pediatrics, neurology, dermatology, psychiatry, dental

surgery, orthopedic surgery, ophthalmology, otolaryngology, obstetrics, gynecology, and urology. Several small clinical laboratories are located conveniently nearby.

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

There are nine operating rooms and three delivery rooms.

Besides the clinical facilities offered by the wards and outpatient clinics of the University Hospital, the School of Medicine has clinical privileges in the 2,300-bed Central State Hospital for psychiatric patients. Vanderbilt is also affiliated with the 498-bed Veterans Administration Hospital and has its facilities available.

MEDICAL LIBRARY

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

The Library on May 1, 1963 contained 63,560 volumes and received 1,010 current periodicals and serial publications including the annual and statistical reports put out by the various state departments of health as well as federal documents relating to health and medicine.

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

Important reference tools and journals in the pure sciences are available on the campus in close proximity to the Medical School through the facilities of the Joint University Libraries, which contained a total of 881,865 volumes as of May 1, 1963.

Well-trained librarians are on hand to render aid in the reading room; a feature of the service is the instruction in the use of the Library given Medical students of the first-year class. Early in the first semester these students are given a brief orientation period on the arrangement and use of the Library. Later in the year they are given round-table instruction, in small groups, on the use of the materials available, both English and foreign.

They are shown how to consult reference works and indexes, how to prepare bibliographies, and how to write scientific papers. This course is aimed to coincide with the preparation of papers which are based on periodical literature and which the students must prepare in connection with their work in certain major subjects.

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

The reading room is open from 8:15 A.M. to 11:00 P.M. Monday through Friday; from 8:15 A.M. to 4:30 P.M. on Saturday, and from 9:00 to 12:00 A.M. and 2:00 to 5:00 P.M. on Sunday. The Medical Library is closed on legal holidays.

LECTURESHIPS

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

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

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

PAULINE M. KING MEMORIAL LECTURESHIP. This lectureship was established in 1962 by Mr. Robert F. King of Klamath River, California, as a memorial to his wife. Each year a distinguished thoracic or cardiovascular surgeon is invited by the Department of Surgery to lecture at Vanderbilt University School of Medicine. The first Pauline M. King Memorial Lecture was given in the spring of 1963.

GLENN A. MILLIKAN MEMORIAL LECTURE. This lectureship was established in 1947 by the members of the then second-year class. It has subsequently received support by means of a capital fund by Dr. Glenn Millikan's father and mother, Dr. Robert A. Millikan and Mrs. Gretna B. Millikan, and friends. Contributions will continue to be made to the fund by

members of the founding class and other students. The lectureship is maintained to provide annually or at stated periods a distinguished lecturer in physiology. The first lecture was given in 1948.

HUGH J. MORGAN VISITING PROFESSORSHIP IN MEDICINE. This visiting professorship was established in 1959 through the generosity of faculty, former house officers, and friends of the late Dr. Hugh J. Morgan who served as Professor of Medicine and Chairman of the Department at Vanderbilt University School of Medicine from 1935 through 1959. As a tribute to Dr. Morgan and his outstanding qualities as a superior clinician, the funds available from this professorship allow the Department of Medicine to invite a distinguished physician to spend one week in residence during which time he assumes the teaching duties of the Professor of Medicine with students, house officers, and faculty. To date, six distinguished physicians have spent one week in residence. The first visiting professorship was awarded in 1959.

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 lecture was given in 1950.

ENDOWED RESEARCH CHAIR

THE JOE AND MORRIS WERTHAN CHAIR OF EXPERIMENTAL MEDICINE. Through the generosity of the Werthan family of Nashville, this professorship 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.

ENDOWED RESEARCH FUNDS

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

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

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

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

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

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

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

FELLOWSHIPS AND RESIDENCIES

THE HOWARD HUGHES MEDICAL INSTITUTE. Investigators of the Howard Hughes Medical Institute who are currently pursuing research programs in the Departments of Medicine, Physiology, Biochemistry, Anatomy, and Physics (College of Arts and Science) are Dr. Lloyd H. Ramsey, Assistant Professor of Medicine; Dr. Howard E. Morgan, Assistant Professor of Physiology; Dr. Jan van Eys, Assistant Professor of Biochemistry; Dr. John Langdon Norris, Assistant Professor of Anatomy.

THE HUGH J. MORGAN RESIDENCY IN MEDICINE. In May of 1962, Mrs. Julia T. Weld of New York City generously made available a yearly gift to support the Chief Residency in Medicine named after the late Dr. Hugh J. Morgan, Professor of Medicine at Vanderbilt from 1935-1959. The awarding of the residency is announced each fall for the following July. The Hugh J. Morgan Residency allows the Department of Medicine to award an adequate salary to this important faculty position.

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

STUDENT RESEARCH PROGRAM

As a supplement to the regular medical curriculum selected students may engage in research projects under the sponsorship of members of the faculty. Stipends range usually from \$500 to \$600 for the period of the fellowship and are provided from a variety of sources including the United States

Public Health Service, National Science Foundation, The National Foundation, Lederle Laboratory Division of American Cyanamide Company, The Tobacco Industry Research Foundation, The Allergy Foundation of America and others. Part of this research may be carried on under special circumstances during the school year and full-time summer research may be arranged. Those students showing a marked aptitude for research may make arrangements to interrupt their regular medical training for one or more years of research training. This program is flexible to meet the needs and interests of individual students.

VANDERBILT SOCIETY OF HISTORICAL MEDICINE

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

ADMISSION

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

1. Graduates of a college or university of recognized standing.
2. Seniors in absentia of a college or university of recognized standing who will be granted the Bachelor's degree by their colleges after having completed successfully at least one year of the work in the School of Medicine. A properly accredited statement 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.

MINIMUM REQUIREMENTS

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

1. *Biology.* One full course of 8 semester hours including laboratory work. The course may be general biology, zoology, or zoology and botany, but not more than half may be botany.

2. *Chemistry.* A minimum of 12 semester hours is required. Eight of these must be in general inorganic chemistry including laboratory work. There must be presented also 4 semester hours credit for organic chemistry covering both aliphatic and aromatic compounds including laboratory work.

3. *Physics.* Eight semester hours are required including laboratory work. It is desirable that emphasis be placed on quantitative laboratory work.

4. *English and Composition.* Six semester hours.

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

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

MEDICAL COLLEGE ADMISSION TEST

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

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

APPLICATIONS

Applications for admission may be filed about fifteen months 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 is reached.

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

Application forms may be obtained by applying to the Registrar, School of Medicine, Vanderbilt University, Nashville 5, Tennessee.

ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing, when vacancies occur, under the following conditions. Applications for advanced standing should be filed according to the procedure described for admission to the first year class, acceptable applicants being required to make the same deposit of \$50. Applicants must furnish acceptable evidence of having completed the conditions of admission and of having completed satisfactorily in an accredited medical school all the work required of students of the class they desire to enter. They must also present a certificate of honorable dismissal from the medical school or schools they have attended.

STUDENT HEALTH SERVICE

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

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

3. The University operates the Student Health Service and infirmary for students with mild illnesses. For severe illness, students are admitted to Vanderbilt University Hospital. At hours when the Student Health Service is closed, students may receive medical care at the Emergency Service of the Vanderbilt University Hospital. Student identification card must be presented.

Special medication, special services, X-ray examinations, special laboratory tests, fees to private physicians, and hospital room and board charges will be paid for by the student.

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

The plan is designed to supplement the Student Health Service and provides hospital, surgical, and in-hospital medical care benefits. For an annual premium of \$19.50 the plan provides coverage for 12 months including vacation periods.

All inquiries as to details should be directed to Insurance Service Company, 1309 Nashville Trust Building, Nashville 3, Tennessee.

REGULATIONS

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

EXAMINATIONS AND PROMOTIONS

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

Students who fail in two major courses at any time during their medical course year or fail a re-examination 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 re-examination, but failures remain on their records, and may be counted as a cause for requesting withdrawal, provided another failure in a major course occurs.

Major Courses are as follows:

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

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

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

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

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

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

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

REQUIREMENTS FOR DOCTOR OF MEDICINE DEGREE

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

NATIONAL BOARD EXAMINATIONS

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

BASIC SCIENCE EXAMINATIONS

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

EXTRACURRICULAR WORK

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

HONORS AND AWARDS

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

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

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

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

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

THE MERRELL AWARD IN PATHOLOGY. Established in 1953 by the William S. Merrell Company, this award of \$150 is provided annually for the two most outstanding papers on research in the field of pathology, regardless of subject matter, by Vanderbilt University medical students. The author of the first place paper will be awarded \$100 and the author of the second place paper, \$50. Participation is not restricted to any one year. Candidates for the award should submit their papers to the Dean.

THE C. V. MOSBY BOOK AWARD. The C. V. Mosby Company awards yearly one of its published books to the medical students with the highest scholastic rank in each class.

THE ROCHE AWARD. This award, a gold wrist watch provided by Roche Laboratories, is presented at the end of his second year to the medical student with the highest accumulative scholastic rank for two years of medical school.

EXPENSES

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

TUITION AND FEES

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

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

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

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

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

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

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

MICROSCOPES, BOOKS, ETC.

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

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

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

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

SCHOLARSHIPS AND OTHER FINANCIAL ASSISTANCE

Vanderbilt University School of Medicine is pleased to announce that a number of scholarships and loans are available to worthy applicants. These vary from small loans to scholarships amounting to \$2,500 yearly. Applicants with distinguished scholastic records, especially those needing financial assistance, are encouraged to take advantage of these. Information and application forms may be obtained from the Committee on Fellowships and Scholarships or from the Office of the Dean of Medical Students.

JUSTIN POTTER MERIT SCHOLARSHIPS. The Justin Potter Merit Scholarships commemorate Mr. Justin Potter, a Nashville business man, industrialist, and financier. These scholarships were established in 1963 by Mr. Potter's family and are awarded by the Committee on Admissions of Vanderbilt University School of Medicine and the Justin Potter Merit Scholarship Committee. They are awarded annually to five applicants who have legally established residences in any of the following Southern states: Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee and Virginia.

Stipends of \$2,500 annually shall be awarded to successful candidates and, once awarded, shall continue at this rate for four years contingent upon satisfactory performance.

Method of selection of the Justin Potter Scholars is as follows: The Committee on Admissions of Vanderbilt University School of Medicine recommends to the Justin Potter Merit Scholarship Committee candidates who desire this scholarship and who in their judgment merit consideration. Selected candidates are invited to Nashville to visit with the Committee (candidates will be reimbursed for their expenses). The Committee composed of outstanding business men, physicians, and educators will make the final selection, the five successful candidates being designated "Justin Potter Merit Scholars."

THE WILLIAM A. DIMMICK MEDICAL SCHOLARSHIP FUND. This fund has been established by friends to honor Reverend William A. Dimmick. It is to be used for the education of worthy medical students as a revolving scholarship loan fund.

GALE F. JOHNSTON LOAN FUND. The funds donated by Gale F. Johnston at the suggestion of his wife Miriam are to be used as a revolving loan fund for students in the School of Medicine.

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 THOMAS L. MADDIN, M.D. FUND. This fund is provided by a bequest from the will of Mrs. Sallie A. C. Watkins in memory of Doctor Thomas L. Maddin to be used for the education of some worthy young man as a student in the Medical School of Vanderbilt University.

THE JAMES PRESTON MILLER TRUST. This trust, left by the will of James P. Miller in memory of his father, James Preston Miller, provides funds to assist in the medical education of deserving young men and women at Vanderbilt University. Residents of Overton County, Tennessee, are to be given first preference, and residents of Tennessee at large to be given second preference.

THE PFIZER LABORATORIES MEDICAL SCHOLARSHIP PROGRAM. This scholarship of one thousand dollars is given each year to a medical student who needs financial assistance and who has outstanding scholastic ability.

THE PROVIDENT PHARMACEUTICAL LOAN FUND. The funds made available to Vanderbilt University are to be used as a revolving loan fund for students in the School of Medicine.

THE THOMAS W. RHODES FELLOWSHIP. Funds thus provided by the will of Georgine C. Rhodes were left to Vanderbilt University for the purpose of establishing one or more fellowships in the School of Medicine.

THE THOMPSON AND GREEN STUDENT SCHOLARSHIP FUND. This fund has been made available to Vanderbilt University for the purpose of establishing a revolving loan fund for students in the School of Medicine. Preference in making the loans is to be given to students from middle Tennessee, northern Alabama and southern Kentucky.

THE JOE AND HOWARD WERTHAN FOUNDATION SCHOLARSHIP FUND. The funds made available by this foundation to Vanderbilt University are to be given or loaned to such students enrolled in the School of Medicine as may need financial assistance.

LIVING ARRANGEMENTS

The Vanderbilt residence halls are an integral part of the University's educational facilities.

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

Rooms are not rented for less than one semester. All rent is payable in advance by the semester at the Bursar's Office. Students who withdraw from the University for any reason, or who are dismissed, or are requested to withdraw by the faculty after the beginning of a semester, are not en-

titled to return or repayment of room rent or any other regular charges or assessments, and the University will not be liable for their return or refund.

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

A variety of accommodations, including single rooms and suites with private and connecting baths are available for men in McTycire Hall. These rooms rent for \$122.50-\$155 a semester. Single and double rooms in Wesley Hall are also available, at rates that range from \$83 to \$117 per semester. Wesley Hall is on Twenty-first Avenue facing the Joint University Library Building.

HOUSING FOR FAMILIES

A variety of apartments are available for married students. Application forms and additional information are available at the office of the Dean of Men.

Two new apartment buildings, Morgan House and Lewis House, contain 240 air-conditioned units. These buildings feature efficiency, one and two bedroom apartments, either furnished or unfurnished.

Twenty furnished apartments (two bedrooms) are available on Highland and Forde Avenues.

OTHER HOUSING

Suitable living quarters in the city of Nashville are easily available, and students have normally found little difficulty in locating satisfactory accommodations.

UNIVERSITY DINING FACILITIES

The Vanderbilt Hospital cafeteria is conveniently located within the building.

The University's main cafeteria in Rand Hall serves students, faculty, and employees. By the semester, students can board at Rand for approximately 15 per cent less than the daily cash prices for meals. Students engaging board by the semester should apply at the office of the Director of Food Services.

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

AUTOMOBILES

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

PLAN OF INSTRUCTION

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

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

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

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

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

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

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

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

consultation from a medical and a social work adviser. Significant factors in different family situations are shared in class and seminar discussions when students present their cases. Students are given an understanding of the dynamics of the physician-patient relationship and of the responsibilities inherent in this interpersonal relationship.

MILITARY AND DISASTER MEDICINE

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

POSTDOCTORAL COURSES

Courses in individual departments are made available by special arrangement. These courses are under the direction of the Director of Continuing Education 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 Continuing Education.

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

COURSES TOWARD MASTER AND PH.D. DEGREES

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

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

1st YEAR FALL SEMESTER

Schedule of Courses

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

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

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

3. Seminars.

1st YEAR SPRING SEMESTER

Schedule of Courses

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

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

2nd YEAR FALL QUARTER

Schedule of Courses

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

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

2nd YEAR WINTER QUARTER

Schedule of Courses

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

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

2nd YEAR SPRING QUARTER

Schedule of Courses

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00-9:00	Introduction to Clinical Medicine	Introduction to Clinical Medicine	Introduction to Clinical Medicine	Introduction to Clinical Medicine	Introduction to Clinical Medicine	
9:00-10:00		Clinical Biochemistry	and Surgery	Clinical Biochemistry		Surgery
10:00-11:00	Tutorial Session	Nutrition		Nutrition	Tutorial Session	
11:00-12:00		Obstetrics	Epidemiology	Obstetrics		Radiology
1:00-2:00		Psychodynamics	Psychodynamics		Psychodynamics	
2:00-3:00					free	
3:00-4:00	Clinical Pathology	Social and Environmental Medicine*	free	Clinical Pathology		
4:00-5:00					CPC	

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

3rd YEAR FALL, WINTER, SPRING QUARTERS

Schedule of Courses

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

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

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

COURSES OF STUDY

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



Anatomy

JACK DAVIES, M.D., *Professor of Anatomy and Chairman of the Department*

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

VIRGIL S. LEQUIRE, M.D., *Associate Professor of Anatomy*

MARY E. GRAY, Ph.D., *Assistant Professor of Anatomy*

G. RODMAN DAVENPORT, Ph.D., *Assistant Professor of Anatomy*


VINCENT J. DEFEO, Ph.D., *Assistant Professor of Anatomy*

JOHN LANGDON NORRIS, M.D., *Assistant Professor of Anatomy*

PETER IAN CLARKSON RENNIE, Ch.B., *Assistant Professor of Anatomy*

ELWYN A. SAUNDERS, M.D., *Assistnt Professor of Orthopedic Surgery in Anatomy*

DON L. EYLER, M.D., *Clinical Instructor in Anatomy*

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

321. GROSS ANATOMY. This course is devoted to a systematic dissection of the human body. The instruction is largely individual and the work of the student is made as independent as possible. FALL. [10] *Dr. Davies and Staff.*

322. HISTOLOGY. This course gives the student a familiarity with the normal structure of the principal tissues and organs of the body. Fresh tissues are used wherever possible for the demonstration of normal cellular function, and in analyzing the characteristics of particular cells. FALL. [4] *Dr. Lequire and Staff.*

323. NEUROLOGY. The histological aspect of the nervous system, including the structure of nerve cells, fibers and endings, the histology and pathways of the spinal cord, the structure and connection of cerebrospinal and autonomic nerves and ganglia, and the histology of the organs of special sense. WINTER. [2] *Dr. Ward and Staff.*

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

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

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

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

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

399. **RESEARCH.** *Staff.*

Biochemistry

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

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

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

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

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

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

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


GEORGE V. MANN, Sc.D., M.D., *Associate Professor of Biochemistry*

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

GUILFORD G. RUDOLPH, Ph.D., *Associate Professor of Biochemistry*

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

ARTHUR R. SCHULERT, Ph.D., *Assistant Professor of Biochemistry*
JANET L. STONE, Ph.D., *Assistant Professor of Biochemistry*
CONRAD WAGNER, Ph.D., *Assistant Professor of Biochemistry* (V.A. Hospital)

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

321-322. **BIOCHEMISTRY.** A lecture course which includes a review of physical and organic chemistry as applied to the study of body processes. The chemical aspects of digestion, metabolism, respiration, etc., are discussed. The laboratory accompanying this course requires 16 hours a week for 16 weeks. Monday, Wednesday, and Friday at 8 a.m. SPRING. [6] *Dr. Darby and Staff.*

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

324. **USE OF RADIOACTIVE TRACERS IN METABOLISM.** This course is an introductory one in the application of radioisotopes to the study of metabolism, and is intended for graduate students in biochemistry, biology, physiology, and related fields. Two lectures and one three-hour laboratory per week. Prerequisite: permission of instructor. FALL. [2-3] *Dr. Coniglio.* (Not offered 1963/64.)

325. **MICRO-PHYSIOLOGIC TECHNIQUES IN BIOCHEMISTRY.** A course designed to give experience in the techniques of animal experimentation. Lectures, discussions, and demonstrations on care, feeding, injection, and drawing of blood in different animals. Application of micro techniques of mammalian physiology to biochemistry. Lectures and laboratory. Prerequisite: a laboratory course in biochemistry. FALL. [3] *Dr. Blood.*

326. **BIO-ORGANIC CHEMISTRY.** Lectures and discussion on the isolation, structural chemistry, and synthesis of biochemically important substances and on the relation of structure to biological activity. Prerequisite: an advanced course in organic chemistry or permission of instructor. Two lectures per week. SPRING. [2] *Dr. Touster.*

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

328. **FUNDAMENTALS OF HUMAN NUTRITION.** This course presents the biochemical and physiologic basis of nutrition with especial emphasis upon the human. Lectures and assigned readings. Two lectures per week (T. T.F., 10 a.m.). SPRING. [2] *Dr. Darby and Staff of the Division of Nutrition.*

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

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

331. FUNDAMENTALS OF BIOCHEMISTRY. A basic course covering the chemistry and metabolism of carbohydrates, proteins, and lipids, and the action of vitamins, hormones, and enzymes. Prerequisite: a basic undergraduate course in organic chemistry. Two lectures and one three-hour laboratory period. FALL. [3] *Dr. Touster.* (Not offered 1963/64.)

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

333. PROTEIN CHEMISTRY. A course describing the physical and chemical methods employed in the study of macro-molecules of biological importance and the relation of protein structure to protein function. FALL. [2] *Dr. Cunningham.* (Not offered 1963/64.)

399. RESEARCH. *Staff.*

Microbiology


VICTOR A. NAJJAR, M.D., *Professor of Microbiology and Chairman of the Department*

SIDNEY P. COLOWICK, Ph.D., *American Cancer Society-Charles Hayden Foundation Professor of Microbiology*

SIDNEY HARSHMAN, D.Sc., *Assistant Professor of Microbiology*

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

JOHN P. ROBINSON, Ph.D., *Instructor in Microbiology*

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

324. MICROBIOLOGY. Lectures and laboratory work. The important bacterial, mycotic, parasitic, and viral infections are considered from the standpoint of etiology, epidemiology, pathogenesis, immunology, and laboratory diagnosis. Fifteen hours of lectures and laboratory a week

during the fall quarter; 3 hours a week during the winter quarter of seminars in current basic research in Microbiology at the molecular level including genetics, immunochemistry, and virology. [6] *Staff*.

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

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

331. SEMINAR. [1]

399. RESEARCH. *Staff*.

Pathology

JOHN L. SHAPIRO, M.D., *Professor of Pathology and Chairman of the Department*

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

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

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

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

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

DAVID L. BEAVER, M.D., *Assistant Professor of Pathology*

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

NORMAN ENDE, M.D., *Assistant Professor of Pathology (V.A. Hospital)*

FRED W. RYDEN, Ph.D., M.D., *Assistant Professor of Pathology*

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

BERTRAM E. SPROFKIN, M.D., *Assistant Clinical Professor of Neuropathology*

KATHERINE ANDERSON GOODPASTURE, Ph.D., *Instructor in Pathology*

GEORGE BARNEY, D.V.M., *Instructor in Comparative Pathology*

RICHARD D. BUCHANAN, M.D., *Instructor in Pathology*

ROBERT E. BURR, M.D., *Instructor in Pathology*


LARRY E. DOUGLASS, M.D., *Instructor in Pathology*

RUFUS J. FREEMAN, M.D., *Instructor in Pathology*

HAROLD L. MOSES, M.D., *Instructor in Pathology*

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

JAMES M. PHYTHON, M.D., *Clinical Instructor in Pathology*

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

321. GENERAL AND SPECIAL PATHOLOGY. Various phases of general and special pathology are presented by lectures, demonstrations, discussions, and laboratory work. Both the gross and the microscopic lesions characteristic

of various diseases are studied and correlated. The class attends and may assist with post-mortem examinations performed during the year. Seventeen hours of lectures and laboratory work a week during the fall quarter, and ten hours of lectures and laboratory work a week during the winter quarter of the second year. [10] *Dr. Shapiro and Staff.*

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

399. RESEARCH. *Staff.*

Pharmacology

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

MILTON T. BUSH, Ph.D., *Professor of Pharmacology*

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

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

CHARLES B. PITTINGER, M.D., *Associate Professor of Pharmacology*

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

JOHN A. OATES, M.D., *Assistant Professor of Pharmacology*


B. V. RAMA SASTRY, D.Sc., Ph.D., *Assistant Professor of Pharmacology*

IRA WEINSTEIN, Ph.D., *Assistant Professor of Pharmacology*

REGINALD W. BUTCHER, Ph.D., *Instructor in Pharmacology*

MARTIN CHANIN, Ph.D., *Instructor in Pharmacology*

JAMES V. DINGELL, M.S., Ph.D., *Instructor in Pharmacology*

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

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

322. MECHANISM OF DRUG ACTION. Lectures and seminars will be held for students interested in acquiring a knowledge of the biochemical and physico-chemical mechanisms involved in drug action. This will include (1) drug-receptor interactions, (2) the biochemical basis of drug therapy. Two sessions each week. SPRING. Hours by arrangement. [2] *Dr. Hurwitz.*

323. SPECIAL PROBLEMS AND EXPERIMENTAL TECHNIQUES IN PHARMACOLOGY. Lectures and laboratory covering the application of fundamental concepts of chemistry, physics, and biology to pharmacological theory and practice. Individual courses are offered including:

1. The relationship of chemical structure to pharmacological action. WINTER. *Dr. Bush.*
2. Antimetabolites as pharmacological agents. FALL. *Dr. Landon.*
3. Endocrine pharmacology. SPRING. *Dr. Heimberg.*
4. Autonomic pharmacology. FALL. *Dr. Bass.*
5. Psychopharmacology. SPRING. *Drs. Bush and Dingell.*

These courses are offered only in alternate years. [2]

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

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

Physiology

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

EARL W. SUTHERLAND, M.D., *Professor of Physiology*

H. C. MENG, M.D., Ph.D., *Associate Professor of Physiology*

HOWARD E. MORGAN, M.D., *Associate Professor of Physiology; Investigator, Howard Hughes Medical Institute*

ROBERT L. POST, M.D., *Associate Professor of Physiology*

EDWARD J. BATTERSBY, M.D., *Assistant Professor of Physiology*

ROGER H. BOWMAN, Ph.D., *Assistant Professor of Physiology; Established Investigator, American Heart Association*

WALLACE F. HENION, M.D., *Assistant Professor of Physiology*

CHARLOTTE HOLLETT, Ph.D., *Assistant Professor of Physiology*

TETSURO KONO, Ph.D., *Assistant Professor of Physiology*


JANE H. PARK, Ph.D., *Assistant Professor of Physiology*

AMAR K. SEN, M.D., Ph.D., *Assistant Professor of Physiology*

REGINALD W. BUTCHER, Ph.D., *Instructor in Physiology*

RONALD R. DiNELLA, Ph.D., M.D., *Instructor in Physiology*

REN-JYE HO, Ph.D., *Instructor in Physiology*
HERMANN LIEBERMEISTER, M.D., *Instructor in Physiology*
ERICK OLSON, Ph.D., *Instructor in Physiology*
ANDREA PARMEGGIANI, M.D., *Instructor in Physiology*

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

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

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

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

399. **RESEARCH.** *Staff.*

Anesthesiology

CHARLES B. PITTINGER, M.D., *Professor of Anesthesiology and Chairman of the Department*

GEOFFREY BERRY, M.D., *Assistant Professor of Anesthesiology*

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

BASEL M. MIXON, JR., M.D., *Assistant Professor of Anesthesiology (V. A. Hospital)*

IAN COBHAM, M.D., *Instructor in Anesthesiology*

PAULA F. CONAWAY, M.D., *Instructor in Anesthesiology*

YILMAZ ERYASA, M.D., *Instructor in Anesthesiology*

HASHAM KHATIB, M.D., *Instructor in Anesthesiology*

RUPERTO E. PEREZ, JR., M.D., *Instructor in Anesthesiology*

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

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

Medicine

- DAVID E. ROGERS, M.D., *Professor of Medicine and Chairman of the Department*
ROBERT CARL HARTMANN, M.D., *Professor of Medicine*
RUDOLPH H. KAMPMEIER, M.D., *Professor of Medicine, Emeritus*
GRANT W. LIDDLE, M.D., *Professor of Medicine*
ANN STONE MINOT, Ph.D., *Professor of Medicine, Emeritus*
ELLIOT V. NEWMAN, M.D., *Joe and Morris Wertban Professor of Experimental Medicine*
THOMAS F. PAINE, JR., M.D., *Professor of Medicine (Nashville General Hospital)*
JOHN B. YOUMANS, M.D., *Professor of Medicine, Emeritus*
SAMUEL S. RIVEN, M.D., C.M., *Clinical Professor of Medicine*
W. DAVID STRAYHORN, M.D., *Clinical Professor of Medicine*
CLARENCE S. THOMAS, M.D., *Clinical Professor of Medicine*
ALBERT WEINSTEIN, M.D., *Clinical Professor of Medicine*
THOMAS BOWMAN ZERFOSS, M.D., *Clinical Professor of Medicine, Emeritus*
THOMAS E. BRITTINGHAM, M.D., *Associate Professor of Medicine*
ROGER M. DES PREZ, M.D., *Associate Professor of Medicine (V.A. Hospital)*
RICHARD FRANCE, M.D., *Associate Professor of Medicine (V.A. Hospital)*
ROBERT A. GOODWIN, M.D., *Associate Professor of Medicine (V.A. Hospital)*
LLOYD H. RAMSEY, M.D., *Associate Professor of Medicine; Investigator, Howard Hughes Medical Institute*
ROBERT T. TERRY, M.D., *Associate Professor of Medicine (V.A. Hospital)*
F. TREMAINE BILLINGS, M.D., *Associate Clinical Professor of Medicine*
THOMAS F. FRIST, M.D., *Associate Clinical Professor of Medicine*
LAURENCE A. GROSSMAN, M.D., *Associate Clinical Professor of Medicine*
J. ALLEN KENNEDY, M.D., *Associate Clinical Professor of Medicine*
ADDISON B. SCOVILLE, JR., M.D., *Associate Clinical Professor of Medicine*
HARRISON J. SHULL, M.D., *Associate Clinical Professor of Medicine*
WILLIAM L. ALSOBROOK, M.D., *Assistant Professor of Medicine (V.A. Hospital)*
WILLIAM S. COPPAGE, M.D., *Assistant Professor of Medicine (V.A. Hospital)*
WILLIAM J. DARBY, M.D., Ph.D., *Assistant Professor of Medicine in Nutrition*
ERIC ENGEL, M.D., *Assistant Professor of Medicine*
JOHN M. FLEXNER, M.D., *Assistant Professor of Medicine*
ROBERT M. HEYSSEL, M.D., *Assistant Professor of Medicine*
M. GLENN KOENIG, M.D., *Assistant Professor of Medicine*
WILLIAM W. LACY, M.D., *Assistant Professor of Medicine*
DAVID H. LAW, M.D., *Assistant Professor of Medicine*
GEORGE V. MANN, Sc.D., M.D., *Assistant Professor of Medicine in Biochemistry*
JOSEPH M. MERRILL, M.D., *Assistant Professor of Medicine (V.A. Hospital)*
WALTER E. NANCE, M.D., *Assistant Professor of Medicine*
JOHN A. OATES, M.D., *Assistant Professor of Medicine*
WILLIAM D. SALMON, JR., M.D., *Assistant Professor of Medicine (V.A. Hospital)*
STEPHEN SCHILLIG, M.D., *Assistant Professor of Medicine (Nashville General Hospital)*
BRUCE SINCLAIR-SMITH, M.D., B.S., *Assistant Professor of Medicine*
CRAWFORD W. ADAMS, M.D., *Assistant Clinical Professor of Medicine*

BENJAMIN J. ALPER, M.D., *Assistant Clinical Professor of Medicine*
 JAMES J. CALLAWAY, M.D., *Assistant Clinical Professor of Medicine*
 WILLIAM J. CARD, M.D., *Assistant Clinical Professor of Medicine*
 ORRIE A. COUCH, JR., M.D., *Assistant Clinical Professor of Medicine*
 FREDERIC E. COWDEN, M.D., *Assistant Clinical Professor of Medicine*
 ROBERT M. FINKS, M.D., *Assistant Clinical Professor of Medicine*
 FRED GOLDNER, JR., M.D., *Assistant Clinical Professor of Medicine*
 JOHN HOOPER GRISCOM, M.D., *Assistant Clinical Professor of Medicine*
 THOMAS B. HALTOM, M.D., *Assistant Clinical Professor of Medicine*
 AUBREY B. HARWELL, M.D., *Assistant Clinical Professor of Medicine*
 WILDER WALTON HUBBARD, M.D., *Assistant Clinical Professor of Medicine*
 HERMAN J. KAPLAN, M.D., *Assistant Clinical Professor of Medicine*
 ALVIN E. KELLER, M.D., *Assistant Clinical Professor of Medicine*
 RALPH W. MASSIE, M.D., *Assistant Clinical Professor of Medicine*
 EDNA S. PENNINGTON, M.D., *Assistant Clinical Professor of Medicine*
 THOMAS GUV PENNINGTON, M.D., *Assistant Clinical Professor of Medicine*
 JAMES N. THOMASSON, M.D., *Assistant Clinical Professor of Medicine*
 CHARLES B. THORNE, M.D., *Assistant Clinical Professor of Medicine*
 RUSSELL D. WARD, M.D., *Assistant Clinical Professor of Medicine*
 CLARENCE C. WOODCOCK, JR., M.D., *Assistant Clinical Professor of Medicine*
 JOHN LANIER WYATT, M.D., *Assistant Clinical Professor of Medicine*
 THOMAS G. ARNOLD, JR., B.S., *Martha Washington Straus-Harry H. Straus*
Instructor in Biophysics in Medicine
 EDWARD J. BATTERSBY, M.D., *Instructor in Medicine*
 TURNER BLEDSOE, M.D., *Instructor in Medicine*
 JAMES R. GIVENS, M.D., *Instructor in Medicine*
 ALAN L. GRABER, M.D., *Instructor in Medicine*
 MARGARET E. HOOD, B.S., *Research Instructor in Medicine*
 DONALD P. ISLAND, B.S., *Research Instructor in Medicine*
 DAVID E. JENKINS, M.D., *Instructor in Medicine (V.A. Hospital)*
 MARIAN ANN MELLY, B.S., *Research Instructor in Medicine*
 CULLEN R. MERRITT, M.D., *Instructor in Medicine*
 CHARLES S. MITCHELL, M.D., *Instructor in Medicine (V.A. Hospital)*
 ETSURO OGATA, M.D., *Instructor in Medicine*
 JAMES D. SNELL, JR., M.D., *Instructor in Medicine*
 W. ANDERSON SPICKARD, JR., M.D., *Instructor in Medicine*
 LAWRENCE K. WOLFE, M.D., *Instructor in Medicine*
 ARTHUR RAY ANDERSON, M.D., *Clinical Instructor in Medicine*
 EDWIN B. ANDERSON, M.D., *Clinical Instructor in Medicine*
 H. R. ANDERSON, M.D., *Clinical Instructor in Medicine*
 RAYMOND R. CROWE, M.D., *Clinical Instructor in Medicine*
 IRWIN B. ESKIND, M.D., *Clinical Instructor in Medicine*
 E. WILLIAM EWERS, M.D., *Clinical Instructor in Medicine*
 HOWARD R. FOREMAN, M.D., *Clinical Instructor in Medicine*
 MILTON GROSSMAN, M.D., *Clinical Instructor in Medicine*
 DAVID W. HAILEY, M.D., *Clinical Instructor in Medicine*
 JOSIAH B. HIBBITS, M.D., *Clinical Instructor in Medicine*
 JOSEPH E. HURT, M.D., *Clinical Instructor in Medicine*
 IRA T. JOHNSON, M.D., *Clinical Instructor in Medicine*
 JOHN P. KINNARD, JR., M.D., *Clinical Instructor in Medicine*
 OTTO MORSE KOCHTITZKY, M.D., *Clinical Instructor in Medicine*

FRED D. OWNBY, M.D., *Clinical Instructor in Medicine*
LENOR S. RIBEIRO, M.D., *Clinical Instructor in Medicine*
MARVIN J. ROSENBLUM, M.D., *Clinical Instructor in Medicine*
SOL A. ROSENBLUM, M.D., *Clinical Instructor in Medicine*
ROBERT M. ROY, M.D., *Clinical Instructor in Medicine*
HERBERT J. SCHULMAN, M.D., *Clinical Instructor in Medicine*
ABRAM C. SHMERLING, M.D., *Clinical Instructor in Medicine*
LUTHER E. SMITH, M.D., *Clinical Instructor in Medicine*
EDWARD L. TARPLEY, M.D., *Clinical Instructor in Medicine*
W. CARTER WILLIAMS, JR., M.D., *Clinical Instructor in Medicine*

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

2. INTRODUCTION TO CLINICAL MEDICINE. This course is designed to introduce students to the methods used in examining patients and the interpretation of the data so obtained. An integrated course is given by the members of the Departments of Medicine, Pediatrics, Surgery, Radiology, and Biochemistry. 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 a series of lecture-demonstrations in which the techniques of physical examination and history taking are discussed and illustrated. These are followed by laboratory periods spent in obtaining personal experience in these skills. Students are divided into small tutorial groups for intensive work with fellow students and patients on the wards at Vanderbilt, the Veterans Administration Hospital and Nashville General Hospital. *Drs. Pennington, Rogers, and the faculty of the Department of Medicine; Dr. Christie (Department of Pediatrics); Dr. Foster and Staff (Department of Surgery); Dr. Klatte (Department of Radiology); and Drs. Blood and 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. Bedside instruction is given daily by members of the Staff who are also members of the Faculty. *Dr. Rogers and Staff.*

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

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

6. ELECTIVES IN MEDICINE.

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

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

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

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

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

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

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

DERMATOLOGY

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

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

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

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

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

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

NEUROLOGY

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

CHARLES E. WELLS, M.D., *Associate Professor of Neurology*

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

WILLIAM M. CLARK, M.D., *Clinical Instructor in Neurology*

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

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 the Seizure Clinic. *Drs. Wells, Sprofskin, and Bell.*

3. ELECTIVES IN NEUROLOGY.

a) CLINICAL NEUROLOGY.

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

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

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

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

Obstetrics & Gynecology

- ROBERT W. NOYES, M.D., *Professor of Obstetrics and Gynecology and Chairman of the Department*
- JOHN C. BURCH, M.D., *Professor of Gynecology*
- FRANK E. WHITACRE, M.D., *Professor of Obstetrics and Gynecology (Nashville General Hospital)*
- D. SCOTT BAYER, M.D., *Clinical Professor of Obstetrics and Gynecology*
- G. SYDNEY McCLELLAN, M.D., *Clinical Professor of Gynecology*
- STANLEY R. GLASSER, Ph.D., *Associate Professor of Obstetrics and Gynecology*
- DORIS H. ORWIN, Ph.D., *Associate Professor of Physiology in Obstetrics and Gynecology*
- WILLARD O. TIRRILL, JR., M.D., *Associate Clinical Professor of Obstetrics and Gynecology*
- EDWIN LEA WILLIAMS, M.D., *Associate Clinical Professor of Gynecology*
- WALTER A. BONNEY, JR., M.D., *Assistant Professor of Obstetrics and Gynecology*
- SWAN BRASFIELD BURRUS, M.D., *Assistant Professor of Obstetrics and Gynecology*
- THOMAS H. CLEWE, M.D., *Assistant Professor of Obstetrics and Gynecology*
- VINCENT J. DEFEQ, Ph.D., *Assistant Professor of Obstetrics and Gynecology*
- PIERRE SOUPART, M.D., Ph.D., *Assistant Professor of Obstetrics and Gynecology*
- RUSSELL T. BIRMINGHAM, M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*
- ROBERT L. CHALFANT, M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*
- EVERETT M. CLAYTON, JR., M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*
- SAM C. COWAN, JR., M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*
- JAMES WOOD ELLIS, M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*
- HAMILTON V. GAYDEN, M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*
- B. KIMBROUGH HIBBETT III, M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*
- ROLAND D. LAMB, M.D., *Assistant Clinical Professor of Gynecology*
- HORACE T. LAVELY, JR., M.D., *Assistant Clinical Professor of Gynecology*
- HOMER M. PACE, M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*
- ROY W. PARKER, M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*
- ROBERT C. PATTERSON, JR., M.D., *Assistant Clinical Professor of Obstetrics*
- C. GORDON PEERMAN, JR., M.D., *Assistant Clinical Professor of Gynecology*
- SIDNEY C. REICHMAN, M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*
- HOUSTON SARRATT, M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*
- ZEEV DICKMANN, Ph.D., *Instructor in Obstetrics and Gynecology*

F. EUGENE HARRINGTON, Ph.D., *Instructor in Obstetrics and Gynecology*
 BASIL A. PHILLIPS, B.B.A., *Instructor in Obstetrics and Gynecology*
 WILLIAM H. PRESTON, JR., M.D., *Instructor in Obstetrics and Gynecology*
 JAMES M. BRAKEFIELD, M.D., *Clinical Instructor in Obstetrics and Gynecology*
 ROGER B. BURRUS, M.D., *Clinical Instructor in Obstetrics and Gynecology*
 GEORGE B. CRAFTON, M.D., *Clinical Instructor in Obstetrics and Gynecology*
 CHARLES M. GILL, M.D., *Clinical Instructor in Obstetrics and Gynecology*
 PAUL A. GREEN, JR., M.D., *Clinical Instructor in Obstetrics and Gynecology*
 CHARLIE JOE HOBODY, M.D., *Clinical Instructor in Obstetrics and Gynecology*
 CHARLES H. HUDDLESTON, M.D., *Clinical Instructor in Obstetrics and Gynecology*
 ORRIN LESTER JONES, JR., M.D., *Clinical Instructor in Obstetrics and Gynecology*
 JAMES B. MILLIS, M.D., *Clinical Instructor in Obstetrics and Gynecology*
 WILLIAM D. SUMPTER, JR., M.D., *Clinical Instructor in Obstetrics and Gynecology*
 ARTHUR SUTHERLAND, M.D., *Clinical Instructor in Obstetrics and Gynecology*
 ROBERT H. TOSH, M.D., *Clinical Instructor in Obstetrics and Gynecology*
 PAUL L. WARNER, M.D., *Clinical Instructor in 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 the spring quarter of the second year. *Dr. Noyes and Staff.*

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

3. GYNECOLOGY. A course of lectures 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. Noyes, Dr. Burch, and Staff.*

4. CLINICAL GYNECOLOGY. The fourth-year students are assigned to all gynecology patients who come to the outpatient department. 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. *Dr. Noyes and Staff.*

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

303-304. **MAMMALIAN REPRODUCTION.** A comprehensive, multidisciplinary study in the biology of mammalian reproduction covering gametogenesis, gamete transport, fertilization and implantation. Development and function of the placenta, of the pregnant uterus, parturition and lactation, and the effect of pregnancy on maternal physiology. Emphasis will be placed on morphology, endocrinology, genetics, effects of ionizing radiation, and immunochemistry. This course is presented as a fundamental aspect of biologic science rather than as a medical specialty, consisting of two hours of lecture and one three hour laboratory, and is open to all graduate students. Hours by arrangement. *Drs. Glasser, Clewe, Dickmann, Harrington, Soupart, and Orgebin-Crist.*

398. **SEMINAR IN MAMMALIAN REPRODUCTION.** *Staff.*

399. **RESEARCH.** *Staff.*

Ophthalmology

GEORGE W. BOUNDS, JR., M.D., *Assistant Clinical Professor of Ophthalmology and Acting Chairman of the Department*

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

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

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

PHILIP L. LYLE, M.D., *Assistant Clinical Professor of Ophthalmology*

FRED A. ROWE, M.D., *Assistant Clinical Professor of Ophthalmology*

LEONARD BERG, M.D., *Instructor in Ophthalmology*

LEE ROY MINTON, M.D., *Instructor in Ophthalmology*

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

ABRAHAM PACHA CHEIJ, M.D., *Clinical Instructor in Ophthalmology*

L. ROWE DRIVER, M.D., *Clinical Instructor in Ophthalmology*

WALLACE H. FAULK, M.D., *Clinical Instructor in Ophthalmology*

J. RALPH RICE, M.D., *Clinical Instructor in Ophthalmology*

SPENCER THORNTON, M.D., *Clinical Instructor in Ophthalmology*

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

Orthopedic Surgery

J. WILLIAM HILLMAN, M.D., *Professor of Orthopedic Surgery and Chairman of the Department*

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

GEORGE K. CARPENTER, M.D., *Associate Clinical Professor of Orthopedic Surgery, Emeritus*

S. BENJAMIN FOWLER, M.D., *Associate Clinical Professor of Orthopedic Surgery*

ARTHUR LEROY BROOKS, M.D., *Assistant Professor of Orthopedic Surgery*

ELWYN A. SAUNDERS, M.D., *Assistant Professor of Orthopedic Surgery*

J. JEFFERSON ASHBY, M.D., *Assistant Clinical Professor of Orthopedic Surgery, Emeritus*

DON L. EYLER, M.D., *Assistant Clinical Professor of Orthopedic Surgery*

JOHN GLOVER, M.D., *Assistant Clinical Professor of Orthopedic Surgery*

ARNOLD HABER, JR., M.D., *Assistant Clinical Professor of Orthopedic Surgery*

ANDREW H. MILLER, M.D., *Assistant Clinical Professor of Orthopedic Surgery*

THOMAS F. PARRISH, M.D., *Assistant Clinical Professor of Orthopedic Surgery*

JERRY CHEEK HUNT, M.D., *Instructor in Orthopedic Surgery*

OLIVER LEE JONES, JR., M.D., *Instructor in Orthopedic Surgery*

GEORGE AUBREY LUTHER, M.D., *Instructor in Orthopedic Surgery*

JOE G. BURD, M.D., *Clinical Instructor in Orthopedic Surgery*

GEORGE K. CARPENTER, JR., M.D., *Clinical Instructor in Orthopedic Surgery*

GEORGE WILLIAM DAVIS, JR., M.D., *Clinical Instructor in Orthopedic Surgery*

CHARLES M. HAMILTON, M.D., *Clinical Instructor in Orthopedic Surgery*

JOHN R. JONES, M.D., *Clinical Instructor in Orthopedic Surgery*

A. BRANT LIPSCOMB, M.D., *Clinical Instructor in Orthopedic Surgery*

EUGENE M. REGEN, JR., M.D., *Clinical Instructor in Orthopedic Surgery*

JOHN M. WAMPLER, M.D., *Clinical Instructor in Orthopedic Surgery*

1. INTRODUCTION TO ORTHOPEDIC SURGERY. Six one-hour lectures are presented in association with the course Introduction to Clinical Medicine. Emphasis is placed upon the examination of the musculoskeletal system, assessment of normal and abnormal gait, standard measurement and recording of ranges of joint motion and muscle strength. Case presentations illustrate the basic mechanism of deformity and disability. *Dr. Hillman and Staff.*

2. INTRODUCTION TO CLINICAL ORTHOPEDIC SURGERY. In the spring quarter a series of eleven lectures is presented in the third year in conjunction with the Department of Surgery Survey of Surgical Principles. Open and closed treatment of fractures, traction, casts, and principles of rehabilitation of the injured patient are described and illustrated. Basic concepts of reconstructive surgery of the locomotor system are presented. *Dr. Hillman and Staff.*

3. ORTHOPEDIC OUTPATIENT SERVICE. During the Surgical assignment of the third year, groups of two or three students spend approximately eight sessions in the Orthopedic Outpatient Clinic. This brief rotation offers an opportunity to observe the types of problems which are presented in an ambulatory clinic. Emphasis is placed upon the medical history, the

physical examination, and the modalities of treatment. Examples of long-term follow-up of postoperative cases are presented. *Dr. Hillman and Staff.*

4. **ORTHOPEDIC INPATIENT SERVICE.** During the third-year Surgical assignment, there are ten-day assignments of groups of two students to the Orthopedic Ward of the Veterans Hospital. In the fourth-year Surgical assignment, two students are assigned to the Orthopedic Service at Vanderbilt to serve as clinical clerks. This arrangement permits a two-week experience in supervised activity in preoperative, postoperative, and operating room procedures. Student Ward Rounds are held twice weekly; combined resident-student rounds each afternoon. *Dr. Hillman and Staff.*

5. **ORTHOPEDIC SPECIALTY CLINIC EXPERIENCE.** During the fourth year, students who are assigned for brief rotations to Orthopedic Surgery attend the Cerebral Palsy Clinic, Poliomyelitis Clinic, Amputee Clinic, and receive basic introduction to Rehabilitation in the Rehabilitation Office. Continuation of participation in these special areas is arranged on an individual basis. *Dr. Hillman and Staff.*

6. **REHABILITATION CONCEPTS.** Offered as an elective course during the summer or free quarter with collaboration by the Rehabilitation Teaching Program. A limited number of students are assigned to an intensive period of participation in rehabilitation of selected patients, introduction to the paramedical participants, and the development of an individual project in the medical aspects of rehabilitation. *Dr. Hillman and Staff.*

7. **EXPERIMENTAL LABORATORY.** Facilities for research can be provided for a limited number of adequately prepared students. Hours and credit by arrangement. *Dr. Hillman and Staff.*

Pediatrics

AMOS CHRISTIE, M.D., *Professor of Pediatrics and Chairman of the Department*

RANDOLPH BATSON, M.D., *Professor of Pediatrics*

JAMES C. OVERALL, M.D., *Clinical Professor of Pediatrics*

WILLIAM D. DONALD, M.D., *Associate Professor of Pediatrics*

JOSEPH A. LITTLE, M.D., *Associate Professor of Pediatrics*

JOB M. STRAYHORN, M.D., *Associate Clinical Professor of Pediatrics*

WILLIAM O. VAUGHAN, M.D., *Associate Clinical Professor of Pediatrics*

THOMAS S. WEAVER, M.D., *Associate Clinical Professor of Pediatrics*

ROBERT E. MERRILL, M.D., *Assistant Professor of Pediatrics*

FRANCIS A. PUYAU, M.D., *Assistant Professor of Pediatrics*

SARAH H. SELL, M.D., *Assistant Professor of Pediatrics*

MILDRED STAHLMAN, M.D., *Assistant Professor of Pediatrics*

LUTHER A. BEAZLEY, M.D., *Assistant Clinical Professor of Pediatrics*

EUGENE L. BISHOP, JR., M.D., *Assistant Clinical Professor of Pediatrics*
HEARN G. BRADLEY, M.D., *Assistant Clinical Professor of Pediatrics, Emeritus*
T. FORT BRIDGES, M.D., *Assistant Clinical Professor of Pediatrics, Emeritus*
HARRY M. ESTES, M.D., *Assistant Clinical Professor of Pediatrics*
DAN S. SANDERS, JR., M.D., *Assistant Clinical Professor of Pediatrics*
CHARLES GORDON RENNICK SELL, M.B., B. Chiv., *Assistant Clinical Professor of Pediatrics*

WILLIAM BROWN WADLINGTON, M.D., *Assistant Clinical Professor of Pediatrics*
ETHEL WALKER, M.D., *Assistant Clinical Professor of Pediatrics*
ERLE E. WILKINSON, M.D., *Assistant Clinical Professor of Pediatrics*
ROBERT C. FRANKS, M.D., *Instructor in Pediatrics*
CONSTANCE P. HASTINGS, M.D., *Instructor in Pediatrics*
FRANK M. SHEPARD, M.D., *Instructor in Pediatrics*
DOROTHY JEAN TURNER, M.D., *Instructor in Pediatrics*
WILLIAM C. YOUNG, M.D., *Instructor in Pediatrics*
LINDSAY K. BISHOP, M.D., *Clinical Instructor in Pediatrics*
SAM W. CARNEY, JR., M.D., *Clinical Instructor in Pediatrics*
NORMAN M. CASSELL, M.D., *Clinical Instructor in Pediatrics*
ERIC MARTIN CHAZEN, M.D., *Clinical Instructor in Pediatrics*
ISABELLA COLLINS, M.D., *Clinical Instructor in Pediatrics*
JOSEPH A. DENNISTON, M.D., *Clinical Instructor in Pediatrics*
WILLIAM C. DOAK, M.D., *Clinical Instructor in Pediatrics*
RAY L. DUBUISSON, M.D., *Clinical Instructor in Pediatrics*
PHILIP C. ELLIOTT, M.D., *Clinical Instructor in Pediatrics*
JOHN P. FIELDS, M.D., *Clinical Instructor in Pediatrics*
ROBERT H. HUTCHESON, JR., M.D., *Clinical Instructor in Pediatrics*
LEONARD J. KOENIG, M.D., *Clinical Instructor in Pediatrics*
SOL L. LOWENSTEIN, M.D., *Clinical Instructor in Pediatrics*
DEWEY G. NEMEC, M.D., *Clinical Instructor in Pediatrics*
GABE A. PAYNE, JR., M.D., *Clinical Instructor in Pediatrics*
BETTYE S. SCHURTER, M.D., *Clinical Instructor in Pediatrics*
JOSEPH STERANKA, M.D., *Clinical Instructor in Pediatrics*
RICHARD P. TABER, M.D., *Clinical Instructor in Pediatrics*
THOMAS B. ZERFOSS, JR., M.D., *Clinical Instructor in Pediatrics*

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

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

hours a week during half of one quarter of the third year. *Drs. Christie, Batson, and Staff.*

3. **CLINICAL DEMONSTRATIONS.** The more important phases of pediatrics, the acute infectious diseases of childhood, including their prevention, 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 third of the class divides twelve weeks between Medicine and Pediatrics in a planned program. Patients, including well babies in a special clinic, are assigned to students, who record histories, make physical examinations, and carry out diagnostic and immunization procedures. Diagnosis and treatment are considered. Students rotate through the special Pediatric Clinics—Allergy Clinic, Seizure Clinic, Cardiac Clinic, Well-Baby Clinic. *Dr. Christie and Staff.*

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

Preventive Medicine & Public Health

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

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

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

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

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

RUTH E. SPRUANCE, M.S.S.W., *Assistant Professor of Medical Social Service*

ANNE SWEENEY, M.A., *Assistant Professor of Medical Social Service*

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

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

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

FRED M. DOWNEY, M.D., *Instructor in Preventive Medicine and Public Health*

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

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

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

BENJAMIN F. GUNTER, D.D.S., M.P.H., *Clinical Instructor in Dental Health*
JOHN HEINTZELMAN, M.D., *Clinical Instructor in Preventive Medicine and Public Health*

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

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

PREVENTIVE MEDICINE: SOCIAL AND ENVIRONMENTAL MEDICINE I AND II: An interdepartmental course extending through the first two years of medical school designed to introduce the student to the human organism as a structural, functional, and social being, and to give him 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. The Departments of Psychiatry and Preventive Medicine and members of the Division of Human Behavior conduct the major part of the course during the first year. In the first year, lectures and seminars are combined with the assignment of the student to a family selected mainly from the well-baby, prenatal, and other clinics, which he will follow during the first two years of his medical studies. The student-family program serves to acquaint the student with social and economic as well as physical and emotional effects of illness on the patient, his family, and the community. 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 first and second year students. One hour lecture and one hour seminar throughout the first year, approximately thirty-six hours. *Drs. Quinn, Zeidberg, and staff of Consultants; Dr. Orr (Department of Psychiatry), and the Division of Human Behavior.*

PREVENTIVE MEDICINE: EPIDEMIOLOGY: Epidemiology and Biostatistics are considered to be the basic sciences of preventive medicine. In the course in epidemiology basic principles are presented in a series of lectures during the fall quarter of the second year. Medical statistics is taught during the same quarter and these two courses complement each other. The second half of the teaching in epidemiology comes in the spring quarter. At this time the emphasis is on clinical epidemiology. The chronic illnesses tuberculosis and rheumatic fever are dealt with as examples of diseases which have a profound physical, emotional, economic and social effect on the patient, his family, and the community. The epidemiology and natural history of these illnesses are considered in detail, cases are presented and the prevention and control are discussed. The student is introduced to community agencies which can help patients and their families. *Drs. Quinn, Zeidberg, and staff of the Division of Human Behavior.*

PREVENTIVE MEDICINE: PRINCIPLES OF PUBLIC HEALTH AND PREVENTIVE MEDICINE: 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: epidemiology, 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; and population problems. Clinical preventive medicine is emphasized in relation to cardiovascular diseases, diabetes, cancer; and the problems of geriatrics are presented. Stress is placed on principles in public health administration at international, national, state, and local levels and their relation to the practitioner of medicine. One lecture each week during the winter and spring quarters of the third year. *Drs. Quinn, Zeidberg, and Staff.*

PREVENTIVE MEDICINE: SOCIAL AND ENVIRONMENTAL MEDICINE III AND IV. The family care plan: Families currently assigned to first and second-year students attend the family clinic regularly. This clinic operates in cooperation with the Department of Pediatrics and is staffed by representatives of the Departments of Pediatrics, Psychiatry, Preventive Medicine, Social Service, and Nursing. Fourth-year students during their assignment to general medical clinics serve in this clinic one afternoon each week examining members of the family and participating in seminars at the beginning of each session. On the first visit to the clinic complete histories and physical examinations are performed on each of the family members and screening laboratory tests are done. Periodic visits by each family member are scheduled but visits to the clinic may be made whenever necessary. The emphasis is on preventive medicine and a comprehensive point of view. The staff of the clinic is responsible for checking students and is available for consultation. Families who offer good teaching material or who have difficult problems are presented at case-conference seminars before each clinic. *Drs. Quinn, Zeidberg, Downey, and Family Clinic Staff; Dr. Christie and Department of Pediatrics Staff; representatives from other clinical departments and nursing and social service; and representatives from community health agencies.*

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. *School of Law Staff.*

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

BIostatISTICS

EDWIN B. BRIDGFORTH, M.S., *Associate Professor of Biostatistics*
CHARLES F. FEDERSPIEL, Ph.D., *Assistant Professor of Biostatistics*
ANN DILLON, M.S.P.H., *Clinical Instructor in Biostatistics*

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

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

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

Psychiatry

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

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

RUE L. CROMWELL, Ph.D., *Associate Professor of Clinical Psychology*

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

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

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

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

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

BASIL T. BENNETT, M.D., *Assistant Professor of Psychiatry (V.A. Hospital)*

JAMES C. GAMMILL, M.D., *Assistant Professor of Psychiatry*

MIRIAM MCHANEY, *Assistant Professor of Psychiatric Social Work*

ROBERT REED, M.D., *Assistant Professor of Psychiatry*

SARAH H. SELL, M.D., *Assistant Professor of Pediatrics in Psychiatry*

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

LA VERGNE WILLIAMS, M.S.S.W., *Assistant Professor of Psychiatric Social Work*

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

ALEXANDER E. HARVEY, M.D., *Assistant Clinical Professor of Psychiatry*

ALBERT R. LAWSON, M.D., *Assistant Clinical Professor of Psychiatry*

E. CALVIN MOORE, M.D., *Assistant Clinical Professor of Psychiatry*

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

FRANK W. STEVENS, M.D., *Assistant Clinical Professor of Psychiatry*

HARVEY ANDERSON, M.D., *Instructor in Psychiatry*

HERBERT H. BOCKIAN, M.D., *Instructor in Psychiatry*
 HELEN MARGARET BROWNING, M.S. in S.W., *Instructor in Psychiatric Social Work*
 DOROTHY HUNTER, M.S.S.W., *Instructor in Psychiatric Social Work*
 ABNER R. OVERDEER, Ph.D., *Instructor in Clinical Psychology*
 MARILYN RACKARD, B.S.N., *Instructor in Nursing in Psychiatry*
 JANICE ELAINE RICKETSON, M.S.S.W., *Instructor in Psychiatric Social Work*
 PATRICIA ROEHM, M.A., *Instructor in Psychiatry*
 GEORGE E. SPAIN, M.S.W., *Instructor in Psychiatric Social Work*
 OUIDA TUCKER, *Instructor in Nursing in Child Psychiatry*
 BETTY YANCEY, *Instructor in Nursing in Child Psychiatry*
 ERIC BELL, JR., M.D., *Clinical Instructor in Psychiatry*
 HENRY B. BRACKIN, JR., M.D., *Clinical Instructor in Psychiatry*
 ROBERT M. FOOTE, M.D., *Clinical Instructor in Psychiatry*
 ROWLAND D. HAWKINS, M.D., *Clinical Instructor in Psychiatry*
 MAURICE HYMAN, M.D., *Clinical Instructor in Psychiatry*
 LOUIS SAMPSON, M.D., *Clinical Instructor in Psychiatry*
 MARGARET G. EVANS, Ph.D., *Lecturer in Psychoanalysis*

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

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

332. ADVANCED PSYCHODYNAMICS. This course is designed for students who are interested in a career in psychiatry or in research in this area who wish understanding in depth of some of the more significant intrapsychic mechanisms. Aspects of patient reaction to being observed and tested under experimental conditions will be analyzed. Stress will be laid upon patients' interpretations of ingestion or injection of drugs and/or placebo. Transference and countertransference aspects of human interaction will be examined. Lecture and seminar limited to 15 students, three hours a week during the winter quarter.

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

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

5. **INSTITUTIONAL PSYCHIATRY.** Fourth-year students are assigned for ward work in the treatment building at Central State Hospital. There they work intensively with the emotionally disturbed patient, become intimately involved in the complex relationships which exist in the family disturbance related to prolonged hospitalization. The placement gives them an opportunity to observe firsthand the effect of various therapies in the disturbed patient and to become an active member of the ward psychiatric team. Five weeks in the fourth year. *Drs. Orr, Luton, and Staff.*

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

8. **ELECTIVES IN PSYCHIATRY**

a) **MAN AND HIS WORKS.** This course is open to selected fourth-year students interested in the effects of culture, past and present, upon man and the forces and stresses that have produced the culture. Twenty hours during spring quarter.

b) **GROUP THERAPY.** Here selected fourth-year students will have an opportunity to have experience under supervision in group therapy with psychotic patients. Twelve hours.

c) **RESEARCH.** Various programs are available to individual students according to their interests. Time by arrangement.

HUMAN BEHAVIOR

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

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

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

KENNETH R. MITCHELL, B.D., *Assistant Professor of Pastoral Counseling*

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

Radiology

EUGENE C. KLATTE, M.D., *Professor of Radiology and Chairman of the Department*
C. C. McCLURE, M.D., *Professor of Radiology, Emeritus*
GRANVILLE W. HUDSON, M.D., *Associate Clinical Professor of Radiology*
JOSEPH HUNTER ALLEN, JR., M.D., *Assistant Professor of Radiology*
BURTON P. GRANT, M.D., *Assistant Professor of Radiology*
DAVID E. SHERMAN, M.D., *Assistant Professor of Radiology (V.A. Hospital)*
JOHN BEVERIDGE, M.D., *Assistant Clinical Professor of Radiology*
MINYARD D. INGRAM, M.D., *Assistant Clinical Professor of Radiology*
JOSEPH M. IVIE, M.D., *Assistant Clinical Professor of Radiology*
BEN R. MAYES, M.D., *Assistant Clinical Professor of Radiology*
EDMUND BROOK BRANTLY, M.D., *Instructor in Radiology*
THOMAS R. DUNCAN, M.D., *Instructor in Radiology*
WILLIAM H. HILL, M.D., *Instructor in Radiology*
BURTON SILBERT, M.D., *Instructor in Radiology*
HEUN Y. YUNE, M.D., *Instructor in Radiology*
WILLIAM T. FARRAR, M.D., *Clinical Instructor in Radiology*
CLIFTON E. GREER, M.D., *Clinical Instructor in Radiology*
WILLIAM M. HAMILTON, M.D., *Clinical Instructor in Radiology*
JOHN R. OLSON, M.D., *Clinical Instructor in Radiology*
RICHARD P. OWNBEY, M.D., *Clinical Instructor in Radiology*
W. FAXON PAYNE, M.D., *Clinical Instructor in Radiology*
JOHN M. TANNER, M.D., *Clinical Instructor in Radiology*

1. For first-year medical students, roentgen anatomy lectures are presented at the time of dissection of various systems.

2. ROENTGENOLOGY: INTRODUCTION TO CLINICAL MEDICINE. An integrated course given by Departments of Biochemistry, Medicine, Pediatrics, Surgery, and Radiology. Second-year class has two 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. Two hours a week in the spring quarter of the second year. *Staff.*

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

4. 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.*

Surgery

- H. WILLIAM SCOTT, JR., M.D., *Professor of Surgery and Chairman of the Department*
BARTON McSWAIN, M.D., *Professor of Surgery*
ROLLIN A. DANIEL, JR., M.D., *Clinical Professor of Surgery*
BEVERLY DOUGLAS, M.D., D. Sc., *Clinical Professor of Surgery, Emeritus*
LEONARD W. EDWARDS, M.D., *Clinical Professor of Surgery, Emeritus*
HAROLD A. COLLINS, M.D., *Associate Professor of Surgery*
JOHN H. FOSTER, M.D., *Associate Professor of Surgery*
WALTER G. GOBBEL, JR., M.D., *Associate Professor of Surgery (V.A. Hospital)*
SAM E. STEPHENSON, JR., M.D., *Associate Professor of Surgery*
BENJAMIN F. BYRD, JR., M.D., *Associate Clinical Professor of Surgery*
W. ANDREW DALE, M.D., *Associate Clinical Professor of Surgery*
WALTER L. DIVELEY, M.D., *Associate Clinical Professor of Surgery*
JAMES A. KIRTLEY, JR., M.D., *Associate Clinical Professor of Surgery*
RALPH M. LARSEN, M.D., *Associate Clinical Professor of Surgery*
DOUGLAS H. RIDDELL, M.D., *Associate Clinical Professor of Surgery*
LOUIS ROSENFELD, M.D., *Associate Clinical Professor of Surgery*
DAUGH W. SMITH, M.D., *Associate Clinical Professor of Surgery*
STANLEY K. BROCKMAN, M.D., *Assistant Professor of Surgery*
DUNCAN A. KILLEN, M.D., *Assistant Professor of Surgery (V.A. Hospital)*
VERNON H. REYNOLDS, M.D., *Assistant Professor of Surgery*
JOHN L. SAWYERS, M.D., *Assistant Professor of Surgery*
CHARLES F. ZUKOSKI, III, M.D., *Assistant Professor of Surgery*
EDMUND W. BENZ, M.D., *Assistant Clinical Professor of Surgery*
CLOYCE F. BRADLEY, M.D., *Assistant Clinical Professor of Surgery*
WILLIAM H. EDWARDS, M.D., *Assistant Clinical Professor of Surgery*
PARKER D. ELROD, M.D., *Assistant Clinical Professor of Surgery*
JOHN L. FARRINGER, JR., M.D., *Assistant Clinical Professor of Surgery*
JAMES C. GARDNER, M.D., *Assistant Clinical Professor of Surgery*
SAM Y. GARRETT, M.D., *Assistant Clinical Professor of Surgery*
CARL N. GESSLER, M.D., *Assistant Clinical Professor of Surgery*
HERSCHEL A. GRAVES, JR., M.D., *Assistant Clinical Professor of Surgery*
J. LYNWOOD HERRINGTON, JR., M.D., *Assistant Clinical Professor of Surgery*
GEORGE W. HOLCOMB, M.D., *Assistant Clinical Professor of Surgery*
ANDREW MAYER, M.D., *Assistant Clinical Professor of Surgery*
ROBERT L. McCracken, M.D., *Assistant Clinical Professor of Surgery*
OSCAR NOEL, M.D., *Assistant Clinical Professor of Surgery*
DAVID R. PICKENS, JR., M.D., *Assistant Clinical Professor of Surgery*
GREER RICKETSON, M.D., *Assistant Clinical Professor of Surgery*
ROBERT N. SADLER, M.D., *Assistant Clinical Professor of Surgery*
NATHANIEL S. SHOFNER, M.D., *Assistant Clinical Professor of Surgery, Emeritus*
HARRISON H. SHOULDERS, JR., M.D., *Assistant Clinical Professor of Surgery*
KIRKLAND W. TODD, JR., M.D., *Assistant Clinical Professor of Surgery*
CHARLES C. TRABUE, M.D., *Assistant Clinical Professor of Surgery*
BERNARD M. WEINSTEIN, M.D., *Assistant Clinical Professor of Surgery*
JAMES M. CALLAWAY, M.D., *Instructor in Surgery*
WILLIAM G. RHEA, JR., M.D., *Instructor in Surgery*

JOHN S. VASKO, M.D., *Instructor in Surgery*
 LEON P. WOODS, M.D., *Instructor in Surgery*
 STANLEY BERNARD, M.D., *Clinical Instructor in Surgery*
 KENNETH L. CLASSEN, M.D., *Clinical Instructor in Surgery*
 HAROLD C. DENNISON, JR., M.D., *Clinical Instructor in Surgery*
 GEORGE E. DUNCAN, M.D., *Clinical Instructor in Surgery*
 ROY G. HAMMONDS, M.D., *Clinical Instructor in Surgery*
 JACKSON HARRIS, M.D., *Clinical Instructor in Surgery*
 J. KENNETH JACOBS, M.D., *Clinical Instructor in Surgery*
 MALCOLM R. LEWIS, M.D., *Clinical Instructor in Surgery*
 M. CHARLES McMURRAY, M.D., *Clinical Instructor in Surgery*
 JOE M. MILLER, M.D., *Clinical Instructor in Surgery*
 I. ARMISTEAD NELSON, M.D., *Clinical Instructor in Surgery*
 JEFFERSON C. PENNINGTON, M.D., *Clinical Instructor in Surgery*

1. INTRODUCTION TO CLINICAL MEDICINE. This course is designed to introduce students to the methods used in examining patients and the interpretation of the data so obtained. An integrated course is given by the members of the Departments of Surgery, Medicine, Pediatrics, Radiology, and Biochemistry. 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 a series of lecture-demonstrations in which the techniques of physical examination and history taking are discussed and illustrated. These are followed by laboratory periods spent in obtaining personal experience in these skills. Students are divided into small tutorial groups for intensive work with fellow students and patients on the wards at Vanderbilt, the Veterans Administration Hospital, and Nashville General Hospital. *Dr. Foster and Staff (Department of Surgery); Drs. Pennington, Rogers, and the faculty of the Department of Medicine; Dr. Christie (Department of Pediatrics); Dr. Klatt (Department of Radiology); and Drs. Blood and Minot (Department of Biochemistry).*

2. 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.*

3. SURGICAL OUTPATIENT SERVICE. For one quarter the students of the third-year class serve daily as assistants in the outpatient clinics of general surgery, neurological surgery, otolaryngology, ophthalmology, orthopedic surgery, and genito-urinary surgery. They make the records of the histories, physical examinations, and laboratory tests of the patients attending the outpatient clinics and assist in the dressings and in minor operations. Various members of the surgical staff are in attendance to instruct the students in their work and to discuss with them the diagnosis and treatment of the patients. In the clinics of orthopedic surgery and urology the students receive instruction in the particular methods of diagnosis and treatment used by these special branches of surgery. Fifteen hours a week throughout one quarter of the third year. *Drs. McSwain, Reynolds, and Staff.*

4. **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.*

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

6. ELECTIVE COURSES IN SURGERY.

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

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

DENTAL SURGERY

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

Although there are no formal lectures or recitations in dental surgery, the students of the fourth-year class have opportunity to become familiar with diseases of the teeth and gums arising in the various clinics of the

outpatient service. The division of dental surgery conducts a clinic two days each week, to which patients suffering from diseases of the teeth or gums are referred for examination and treatment.

NEUROLOGICAL SURGERY

WILLIAM F. MEACHAM, M.D., *Clinical Professor of Neurological Surgery*
CULLY A. COBB, JR., M.D., *Associate Clinical Professor of Neurological Surgery*
JOE M. CAPP, M.D., *Assistant Clinical Professor of Neurological Surgery*
ARNOLD MEIROWSKY, M.D., *Assistant Clinical Professor of Neurological Surgery*
C. DAVID SCHEIBERT, M.D., *Assistant Clinical Professor of Neurological Surgery*
ARTHUR G. BOND, M.D., *Instructor in Neurological Surgery*

1. NEUROLOGICAL SURGERY. A clinical presentation of neurosurgical problems with emphasis on diagnosis and management. Third and fourth-year classes. Two hours per month throughout the year. *Drs. Meacham and Cobb.*
2. NEUROSURGICAL CLINIC. Work in the neurosurgical outpatient service. Examinations and treatment of patients including follow-up studies on postoperative cases. Informal neurosurgical seminar at end of period. Third-year class. *Drs. Cobb and Meacham.*
3. NEUROPATHOLOGY. A series of lectures followed by gross and microscopic studies of surgical neuropathological disorders. Integrated with the regular surgical pathology course. Third-year class. Nine hours during the winter quarter. *Dr. Meacham and Resident Staff.*

OTOLARYNGOLOGY

GUY M. MANESS, M.D., *Clinical Professor of Otolaryngology*
MORRIS ADAIR, M.D., *Assistant Clinical Professor of Otolaryngology*
CLYDE ALLEY, JR., M.D., *Assistant Clinical Professor of Otolaryngology*
J. THOMAS BRYAN, M.D., *Assistant Clinical Professor of Otolaryngology*
HERBERT DUNCAN, M.D., *Assistant Clinical Professor of Otolaryngology*
W. G. KENNON, JR., M.D., *Assistant Clinical Professor of Otolaryngology*
WILLIAM E. GREER, M.D., *Instructor in Otolaryngology (V. A. Hospital)*

1. OTOLARYNGOLOGY. A course of lectures and clinical presentations in which the diseases of the ear, nose, and throat are discussed briefly and the methods of treatment are described. One hour a week during the fall quarter of the third year. *Dr. Maness.*
2. CLINICAL OTOLARYNGOLOGY. Groups consisting of one sixth of the third-year class are assigned to clinical work in the outpatient clinic, where they have an opportunity to examine patients, to practice the simpler forms of treatment, to witness and to assist in operations, and to participate in the postoperative care of patients. Eight hours a week during one half of one quarter. *Drs. Maness, Bryan, and Staff.*

UROLOGY

EDWARD HAMILTON BARKSDALE, M.D., *Associate Clinical Professor of Urology*
CHARLES E. HAINES, JR., M.D., *Associate Clinical Professor of Urology*
HARRY S. SHELLEY, M.D., *Associate Clinical Professor of Urology*
ALBERT P. ISENHOUR, M.D., *Assistant Clinical Professor of Urology*
TOM E. NESBITT, M.D., *Assistant Clinical Professor of Urology*
PHILLIP P. PORCH, JR., M.D., *Assistant Clinical Professor of Urology*
STUART E. HARLOWE, M.D., *Clinical Instructor in Urology*
ROBERT E. MCCLELLAN, M.D., *Clinical Instructor in Urology*
JOHN M. TUDOR, M.D., *Clinical Instructor in Urology*

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

Audiology & Speech Pathology

FREEMAN MCCONNELL, Ph.D., *Professor of Audiology and Chairman of the Division*

REBECCA SUE CRAIG, Ph.D., *Assistant Professor of Speech Pathology*

CLAIRE COOPER, M.A., *Instructor in Audiology*

M. ANN GANNAWAY, M.S., *Instructor in Speech Pathology*

KATHRYN BARTH HORTON, M.S., *Instructor in Speech Pathology*

NORMA LOU ROBINSON, M.S., *Instructor in Speech Pathology*

DOROTHY HAMILTON, B.S., *Clinical Instructor in Hearing Therapy*

FRANK POWELL, M.S., *Instructor in Audiology*

RICHARD STREAM, M.S., *Instructor in Audiology*

ADMISSION TO GRADUATE STUDY IN AUDIOLOGY AND SPEECH PATHOLOGY

Graduates with Bachelor's degrees from approved institutions may be admitted to the Division for work toward the Master of Science degree. They shall have completed courses of study approximately equivalent to those required at Vanderbilt University for the Bachelor's degree and shall have maintained approximately a B average in their undergraduate work or in the last two years of their undergraduate work. Under certain circumstances a student may be required to complete specific prerequisite requirements before enrolling in the courses of the Division.

Application for admission should be made by writing directly to the Chairman of the Division of Audiology and Speech Pathology requesting the necessary forms.

Graduate students will normally be expected to begin their work in the fall semester. They may be admitted, however, at the beginning of any other term.

REQUIREMENTS FOR MASTER'S DEGREE

A minimum of 18 semester hours in the major field, either audiology or speech pathology according to the student's primary interest, and at least 6 semester hours in a related minor subject area are required. In addition, a written thesis is usually required. The program must include one seminar course and at least one other 300-level course. Clinical practice under supervision also will be required as part of the training program. Completion of the Master's degree program requires a minimum of two semesters and a summer term, and must be achieved within a six-year period. A quality point ratio of 2.0 (course grade average of B) on all courses taken for credit is necessary for graduation.

With the approval of the faculty of the Division up to six semester hours of credit may be transferred from Graduate Schools in accredited institutions.

The grading system in the Division includes letter grades A, B, C, and F. A student will not be granted graduate credit for any course in which he receives a grade of less than C. Noncredit courses taken because of deficiencies in background preparation are not counted toward total hours or in calculating the quality point ratio.

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

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

In addition to the ordinary course examinations, the candidate for the Master's degree may, at the discretion of the Division, be required to take a final comprehensive examination in his field of specialization. Such examination, if given, shall be completed not later than fourteen days before the degree is to be granted.

TUITION AND FEES

Tuition charges for graduate work in Audiology and Speech Pathology are as follows:

Tuition, normal full load (9-13 hours) per semester, FALL & SPRING... \$450.00

Schedules below 9 hours or above 13 hours are charged at the rate of \$50 per hour. Tuition is \$300 for a full summer session program of 6 to 9 hours, and a charge of \$50 is made for each additional hour. For programs of less than 6 hours students are charged \$50 per hour with a minimum tuition charge of \$100.

Effective September 1964, base tuition will be \$500 per semester.

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

Special fees are charged as follows:

Late payment fee.....	\$ 5.00
Late registration fee.....	10.00
Diploma Fee.....	10.00
Thesis binding (five copies) and abstract fee.....	18.00

In addition to the fees payable to the University, students will be charged a nominal laboratory fee by the Bill Wilkerson Hearing and Speech Center to defray a portion of the cost of the clinical materials used in their professional training.

COURSE OF STUDY

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

The courses listed below with their related clinical and research activities are taught at the Bill Wilkerson Hearing and Speech Center located adjacent to the Vanderbilt University campus on 19th Avenue South at Edgehill.

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

I. AUDIOLOGY & SPEECH PATHOLOGY

220. ANATOMY AND FUNCTION OF THE CENTRAL NERVOUS SYSTEM. Lectures and demonstrations designated to acquaint the student with the basic structure and function of the central nervous system. Emphasis on the integrative activity as related to both normal and deviate oral communication. SPRING. [3] *Mrs. Horton.*

221. ANATOMY AND FUNCTION OF THE SPEECH AND HEARING MECHANISMS. Lectures, readings, and demonstrations, presenting the structures and function of breathing, phonation, resonance, articulation, and audition. Emphasis on the fundamental physiological principles of speech production and the psychoacoustics of hearing. FALL. [3] *Drs. McConnell and Craig.*

223. EXPERIMENTAL PHONETICS. Study of research methods, instrumentation, and findings in the field of experimental phonetics. SPRING. [3] *Mr. and findings in the field of experimental phonetics. SPRING. [3] (Not offered 1963/64.)*

225. THE FUNDAMENTALS OF AUDIOLOGY AND SPEECH PATHOLOGY. A study of the normal and abnormal development of speech and language. Classification and analysis of speech and hearing disorders and their social, psychological, and educational implications. SUMMER. [3] *Dr. McConnell and Staff.*

227. DIAGNOSTIC PROCEDURES IN AUDIOLOGY AND SPEECH PATHOLOGY. Diagnostic tests and procedures for children and adults with impaired hearing or defective speech. Techniques for screening areas important to normal speech and language development. Case history techniques. Clinical observation and report writing required. Prerequisite: consent of instructor. FALL. [3] *Mrs. Horton.*

228. LANGUAGE DISORDERS OF CHILDREN. A study of the language, behavioral symptomatology, and treatment of language-impaired children. Consideration of differential diagnostic techniques for aphasia, central auditory disturbances, hearing loss, mental retardation, and emotional disturbances. SPRING. [3] *Mrs. Horton.*

II. AUDIOLOGY

240. INTRODUCTION TO AUDIOLOGY. A study of the theory and practice of hearing measurement with emphasis on basic audiometric techniques. Consideration of causative factors in hearing loss and evaluation of audiometric results. FALL. [3] *Dr. McConnell.*

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

245. PRINCIPLES OF SPEECHREADING AND AUDITORY TRAINING. An analysis of the various methods for developing speechreading skills with children and adults. Consideration of recent concepts in the utilization of residual hearing. SPRING. [3] *Miss Cooper.*

247. PSYCHOLOGY OF DEAFNESS. A consideration of the effects of hearing impairment upon children and adults. Research studies of the social, motor, intellectual, and psychological development of hard of hearing and deaf individuals. SPRING. [3] *Dr. McConnell.*

249. ADVANCED CLINICAL AUDIOLOGY. A study of the research and theory of clinical selection of hearing aids and their use. Special tests and exploratory techniques in audiologic assessment; psychophysics of audition in relation to clinical problems. SPRING. [3] *Mr. Stream.*

322. ADVANCED CLINICAL STUDY AND PRACTICE: AUDIOLOGY. Assigned readings and written reports combined with participation in the clinical program in audiology. Course may be repeated for credit. FALL, SPRING, SUMMER. [2] *Staff.*

341. SEMINAR IN AUDIOLOGY. Review of significant literature in the field of audiology. Directed study in assigned subject areas. SUMMER. [2] Dr. McConnell.

352. SPECIAL PROBLEMS IN AUDIOLOGY. Study of areas and problems not included in other courses in audiology, chosen to fit the students' interests and the needs of their programs. FALL, SPRING, SUMMER. [Variable credit: 1 to 3 each semester] Staff.

389. INDEPENDENT STUDY AND READINGS IN AUDIOLOGY. [3] Staff.

III. SPEECH PATHOLOGY

230. ARTICULATION DISORDERS. A study of the etiology, evaluation, and management of articulatory defects in children and adults. FALL. [3] Miss Gannaway.

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

232. ORGANIC SPEECH DISORDERS: STRUCTURAL. A study of the etiologies, diagnosis, and management of speech defects associated with structural anomalies and physiological dysfunction. Consideration of voice disorders, cleft palate, post-laryngectomy, and other structurally related speech defects. SPRING. [3] Mrs. Horton.

233. ORGANIC SPEECH DISORDERS: NEUROLOGICAL. A study of speech and language disturbances related to neurological dysfunction. Consideration of such disorders as the aphasias and cerebral palsy. FALL. [3] Dr. Craig.

321. ADVANCED CLINICAL STUDY AND PRACTICE: SPEECH PATHOLOGY. Assigned readings and written reports combined with participation in the clinical program in speech pathology. Courses may be repeated for credit. FALL, SPRING, SUMMER. [2] Staff.

335. SEMINAR IN SPEECH PATHOLOGY. Review of significant literature in the field of speech pathology. Directed study in assigned subject areas. SUMMER. [2] Dr. Craig.

351. SPECIAL PROBLEMS IN SPEECH PATHOLOGY. Study of areas and problems not included in other courses in speech pathology, chosen to fit the students' interests and the needs of their programs. FALL, SPRING, SUMMER. [Variable credit: 1 to 3 each semester] Staff.

388. INDEPENDENT STUDY AND READINGS IN SPEECH PATHOLOGY. [3] Staff.

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

REGISTER OF STUDENTS

1962-63

FOURTH-YEAR CLASS

George William Benedict (B.A., Williams)	Columbus, Ohio
Willis Ellsworth Brown, Jr. (B.A., Vanderbilt)	Little Rock, Ark.
Chester Ray Burns (B.A., Vanderbilt)	Nashville, Tenn.
Henry King Butler, Jr. (B.A., Vanderbilt)	Murfreesboro, Tenn.
Ann Ayers Cammarano (B.S., Oklahoma)	Olympia, Wash.
Marvin Edward Deck, Jr. (B.A., Vanderbilt)	Nashville, Tenn.
William Lee Downey (B.A., Vanderbilt)	Springfield, Tenn.
Daniel Clark Geddie (B.A., Vanderbilt)	Atlanta, Ga.
Gordon Nelson Gill (B.A., Vanderbilt)	Nashville, Tenn.
Robert Porter Goodman (B.A., Vanderbilt)	Glasgow, Ky.
Murphy Howard Green (B.S., Kentucky)	Harlan, Ky.
Robert Baker Hale, Jr. (B.A., Vanderbilt)	Wilmington, Del.
Clio Armitage Harper, Jr. (B.A., Harvard)	Little Rock, Ark.
John Nance Henry (D.D.S., Texas)	Texarkana, Texas
Ray Willis Hester (B.A., Vanderbilt)	Prichard, Ala.
Louis Giles Horn III (B.A., Vanderbilt)	Anniston, Ala.
Robert Winston Ikard (B.A., Vanderbilt)	Columbia, Tenn.
John Wailon Laing (B.A., Marshall)	Cannelton, W. Va.
Robert Livingston Lawrence (B.A., Vanderbilt)	Jackson, Miss.
Joseph Francis Lentz (B.A., Vanderbilt)	Nashville, Tenn.
Harold Newton Lovvorn, Jr. (B.A., Vanderbilt)	Athens, Ala.
James Allen Maddy (B.A., Vanderbilt)	Los Alamos, N. M.
Thomas McConnell McCutchen, Jr. (B.S., Davidson)	Florence, S. C.
William Thomas McKinney, Jr. (B.A., Baylor)	Rome, Ga.
Billy Sam Moore (B.A., David Lipscomb)	Petersburg, Tenn.
James Carney Overall, Jr. (B.S., Davidson)	Nashville, Tenn.
Ronald Edwin Overfield (B.S., Kentucky)	Henderson, Ky.
James Murray Perry, Jr. (B.A., Vanderbilt)	Nashville, Tenn.
Joseph Anderson Pinkerton, Jr. (B.A., Vanderbilt)	Franklin, Tenn.
Howard E. Rosen (B.A., Hamilton)	Nashville, Tenn.
John Banks Sewell, Jr. (B.A., Vanderbilt)	Trinity, Ala.
Rita Anne Siler (B.S., Austin Peay State)	Guthrie, Ky.
Murray Wilton Smith (B.A., Vanderbilt)	Nashville, Tenn.
Harry Calvin Stephenson (B.S., Western Kentucky State)	Jamestown, Ky.
David Dawson Thombs (B.A., Amherst)	Nashville, Tenn.
James Bentley Threlkel (B.A., Vanderbilt)	Owensboro, Ky.
Ronald James Vasu (B.A., Wayne State)	Detroit, Mich.
John Harley Walsh (B.A., Vanderbilt)	Jackson, Miss.
Michael Brady Wilhoit (B.S., Georgetown)	Grayson, Ky.
Roy Rush Wright (B.A., Vanderbilt)	Opp, Ala.
Paul Sandidge York, Jr. (B.A., Vanderbilt)	Glasgow, Ky.
Robert Stanley Yusk (B.S., Tennessee)	Dickson, Tenn.
Glenn Allen Zimmermann (B.A., Wayne State)	Detroit, Mich.

THIRD-YEAR CLASS

James Ralph Baker (B.S., Kentucky)	Neon, Ky.
Keller Skeen Carlock (B.A., Vanderbilt)	Atlanta, Ga.
Girard Anthony Chapnick (B.A., Columbia)	Troy, N. Y.
Joseph Allen Cook (B.A., Oklahoma)	Chickasha, Okla.
Charles King Davis, Jr. (B.S., Kentucky)	Hickman, Ky.
Robert Dubose Dickins, Jr. (B.A., Vanderbilt)	Pine Bluff, Ark.

Wallace Bruce Duffin (B.S., Austin Peay State)	Smithtown, N. Y.
James Thomas Farrar (B.A., Vanderbilt)	Camden, Tenn.
Theodore Ard Feintuch (B.A., Vanderbilt)	Chattanooga, Tenn.
James Owen Finney, Jr. (B.A., Vanderbilt)	Gadsden, Ala.
Charles Edward Flink (B.A., Brandeis)	Chestnut Hill, Mass.
Dudley Clark Fort (B.S., Univ. of the South)	Nashville, Tenn.
Abe Roger Fosson, Jr. (B.A., Kentucky)	Ashland, Ky.
Raymond Morris Fox, Jr. (B.A., Princeton)	Painesville, Ohio
Milton Frank, III (B.S., Alabama)	Huntsville, Ala.
Joseph Terry Fuqua (B.A., Vanderbilt)	Hopkinsville, Ky.
Ralph Clay Gordon (B.S., Kentucky)	Lexington, Ky.
Stanley Edwin Graber (B.A., Vanderbilt)	Corning, Ark.
Charles Henry Griffith, Jr. (B.A., Vanderbilt)	Gadsden, Ala.
Erich Bryan Groos (B.E., Vanderbilt)	Harlan, Ky.
Jack Douglas Hagedwood (B.A., Vanderbilt)	Tullahoma, Tenn.
Larry Joe Hall (B.A., Louisville)	Elizabethtown, Ky.
William Carroll Heird (B.S., Maryville)	Friendsville, Tenn.
Daniel Russell Hightower (B.A., Vanderbilt)	Florence, Ala.
Floyd Frederick Householder (B.A., Asbury)	Olney, Ill.
Farhad Ismail-Beigi (B.A., Berea)	Teheran, Iran
Thomas McElroy Jarboe (B.A., Kentucky)	Lebanon, Ky.
John Tolbert Jones (B.A., Stanford)	Monterey Park, Calif.
Robert Eugene Lawler (B.A., Western Kentucky State)	Munfordville, Ky.
Alexander Robert Lawton (B.A., Yale)	Atlanta, Ga.
Lewis Dubard Lipscomb (B.A., Vanderbilt)	Jackson, Miss.
Robert Wylie Lowe (B.S., Morehead)	Morehead, Ky.
John Wellington McMahan (B.A., Vanderbilt)	Gallatin, Tenn.
Robert Joseph Meitus (B.A., Cincinnati)	Cincinnati, Ohio
Phillip Laurence Parr (B.A., Stetson)	Jacksonville, Fla.
David M. Port (B.A., Pennsylvania)	Brooklyn, N. Y.
Alan Stephen Rosenthal (B.A., Vanderbilt)	Nashville, Tenn.
John Robert Schweikert (B.S., Purdue)	Cincinnati, Ohio
Elliott Gerald Segal (B.A., Brandeis)	Plymouth, Mass.
Nancy Rae Sitz (B.A., Vanderbilt)	Nashville, Tenn.
Robert Covington Springs (B.A., King)	Banner Elk, N. C.
Kenneth Shannon Tilley (B.A., Vanderbilt)	Lebanon, Tenn.
Charles Richard Treadway (B.A., Vanderbilt)	Nashville, Tenn.
Nicholas Carmen Trotta (B.A., Upsala)	Union City, N. J.
William LeWayne Underwood (B.A., Kentucky)	Frankfort, Ky.
Herbert Ezra Wollowick (B.S., Florida)	Sarasota, Fla.

SECOND-YEAR CLASS

Harvey Asher (B.S., Alabama)	Passaic, N. J.
James Bernard Back (B.A., Kentucky)	Lexington, Ky.
Herman Verdain Barnes (B.A., McMurray; B.D., Yale)	Phillips, Texas
Walter Frederick Barnes (B.A., Grinnell)	New Bedford, Mass.
Lynn Frederick Baumgartner (B.A., Colorado)	Alamogordo, N. M.
Frank Henry Boehm (B.A., Vanderbilt)	Nashville, Tenn.
John Cunningham Brothers (B.S., Tulane)	Nashville, Tenn.
Robert Munson Carey (B.S., Kentucky)	Lexington, Ky.
Charles Morgan Carr (B.A., Pennsylvania)	Monterey, Tenn.
Dan Paschall Chisholm, Jr. (B.A., Vanderbilt)	Little Rock, Ark.
Claude Wesley Cooper III (B.A., Vanderbilt)	Thayer, Mo.
George Tams Curlin (B.A., Centre)	Nashville, Tenn.
Joe Harris Davis (B.A., Vanderbilt)	Chesterfield, Tenn.
Kioomars Dayani (B.S., Drury)	Teheran, Iran
Jesse Emmett Dozier, Jr. (B.A., Vanderbilt)	Nashville, Tenn.
William Carl Dyer, Jr. (B.A., Vanderbilt)	Chattanooga, Tenn.
William Sliman Elias (B.A., Vanderbilt)	Osceola, Ark.
Joe Morris Finkel (B.A., Vanderbilt)	Mayfield, Ky.
John Wilson Frost, Jr. (B.A., Vanderbilt)	Murray, Ky.

Richard Hugh Goldwyn (B.S., Tulsa)	Tulsa, Okla.
¹ Antonio Marion Gorto, Jr. (B.A., Vanderbilt; Ph.D., Oxford)	Nashville, Tenn.
Louise Green (B.A., Duke)	Columbus, Ohio
Richard Martin Helman (Senior in Absentia, Clemson)	Columbia, S. C.
Redmond Prindiville Hogan III (B.A., Northwestern; M.S., Illinois)	Evanston, Ill.
² Stephen Michael Ingber (B.A., Vanderbilt)	Forrest Hills, N. Y.
Patrick Lee Jasper (B.A., Union)	Science Hill, Ky.
Robert Larry Jetton (B.S., Murray State)	Murray, Ky.
Richard Bernard Kates (B.A., Southern California)	Playa del Rey, Calif.
Stephen Saul Kutner (B.M.E., New York)	West Los Angeles, Calif.
Harold Lasker (B.S. Queens)	Queens, N. Y.
James Steele Lipe (B.S., San Diego State)	La Jolla, Calif.
Charles Eugene Mayes (B.S., Austin Peay State)	Greenbrier, Tenn.
Alfred Wayne Meikle (B.S., Utah State)	Smithfield, Utah
Gordon Lynn Miles (B.S., Millsaps)	Memphis, Tenn.
Robert Charles Nevins, Jr. (B.A., Vanderbilt)	Little Neck, N. Y.
Panagiotis (Takis) Patikas (B.S., Adrian)	Athens, Greece
Roy Howard Petrie (B.S., Western Kentucky State)	Clifty, Ky.
Lee Jacob Silver (B.A., Stanford)	Nashville, Tenn.
Walter Smithwick III (B.A., Vanderbilt)	Lebanon, Tenn.
Charles Elmer Terry (B.A., Kentucky)	Jackson, Ky.
Barry Hammond Thompson (B.A., University of the South)	Jackson, Tenn.
Robert Harvey Thompson, Jr. (B.A., Vanderbilt)	Jackson, Miss.
William Louis Traxel (B.A., Northwestern)	Maysville, Ky.
Jens Vinding (B.A., Vanderbilt)	Nashville, Tenn.
Lawrence Thomas Wagers (B.S., Kentucky)	Hazard, Ky.
James Caleb Wallwork (B.A., Vanderbilt)	Nashville, Tenn.
Robert Henry White, Jr. (B.S., Kentucky)	Fulton, Ky.

¹Special Student

²Withdrew voluntarily December 7, 1962

FIRST-YEAR CLASS

Myron John Adams, Jr. (B.A., Harvard)	Kingsport, Tenn.
Joe Tom Backus (B.A., Arkansas)	Fayetteville, Ark.
John Boyers Breinig (B.E., Vanderbilt)	Nashville, Tenn.
Kenneth Larry Brigham (B.A., David Lipscomb)	Nashville, Tenn.
Vincent Anthony Cina (B.A., Millikin)	Dundee, Ill.
Raymond Riggan Crowe, Jr. (Sr. in Absentia, Vanderbilt)	Nashville, Tenn.
Charles Andres Daniels (B.S., Kentucky)	Ashland, Ky.
Philip Hunter Davis (B.A., Milligan)	Los Angeles, Calif.
Gerald Domesick (B.A., Millikin)	Auburn, Ill.
John Joel Donaldson (B.A., Vanderbilt)	Jackson, Miss.
Gary William Duncan (Sr. in Absentia, Vanderbilt)	Nashville, Tenn.
Richard Kent Farris (Sr. in Absentia, Vanderbilt)	Nashville, Tenn.
Jimmy Garrett Finley (B.S., Southwestern at Memphis)	Adams, Tenn.
Gordon Perry Flake (B.A., Johns Hopkins)	Little Rock, Ark.
Antoinette Blair Foote (Sr. in Absentia, Stanford)	Fairfax, Va.
Robert Harold Franklin (B.S., Western Kentucky State)	Lewisburg, Ky.
Jerry Lee Gibbs (B.S., Western Kentucky State)	Fountain Run, Ky.
Larry Melvin Hagerman (B.A., Vanderbilt)	Owensboro, Ky.
Elwood Jean Headley (B.A., Vanderbilt)	Madison, Tenn.
David Russell Hendrick (B.A., Stanford)	San Mateo, Calif.
Charles Edward Hood (Sr. in Absentia, Vanderbilt)	Scottsboro, Ala.
Felix Austin Hughes III (B.A., Johns Hopkins)	Memphis, Tenn.
Richard Marvin Hutson (Sr. in Absentia, Murray State)	Murray, Ky.
Dennis Mark Jackson (Sr. in Absentia, Vanderbilt)	Pike Road, Ala.
Ernest Owen Jackson, Jr. (B.A., Vanderbilt)	Lebanon, Tenn.
Robert Kirkland Johnston (B.S., Maryville)	Mercedes, Texas
Albert Louis Kerns (B.S., Notre Dame)	Memphis, Tenn.

Verne Clifton Lanier, Jr. (B.A., Catawba)	.....	Welcome, N. C.
Louis Ira Levy (Sr. in Absentia, Vanderbilt)	.....	Augusta, Ga.
Gideon Harris Lowe III (Sr. in Absentia, Tenn. Polytechnic)	.....	Cookeville, Tenn.
Gerald Paul Martin (B.A., California-Los Angeles)	.....	Los Angeles, Calif.
Richard Harrison Mathews (B.S., Abilene Christian)	.....	Austin, Texas
Olen Dale Maxwell (B.A., Tulsa)	.....	Tulsa, Okla.
Henry Brooks Morgan (B.A., Transylvania)	.....	Corbin, Ky.
John Ronald Morgan (B.A., David Lipscomb)	.....	LaFayette, Ga.
Alvin Ira Mushlin (Sr. in Absentia, Vanderbilt)	.....	Meridian, Miss.
John Bruce Neeld, Jr. (B.A., Vanderbilt)	.....	Columbia, Tenn.
Trellou Joseph Pond, Jr. (B.A., Vanderbilt)	.....	Memphis, Tenn.
David Allen Rand (B.A., So. California)	.....	Monterey Park, Calif.
Thomas Michael Schwink (B.S., Rutgers); (M.S., Ph.D., Iowa State)	.....	Laramie, Wyo.
Sylvia Ruth Seamands (B.A., Asbury)	.....	Wilmore, Ky.
Jere Palmer Segrest (B.A., Vanderbilt)	.....	Jackson, Miss.
John Stanley Sergeant (Sr. in Absentia, Vanderbilt)	.....	Frankfort, Ky.
William Johnson Shasteen (B.A., University of the South)	.....	Clarksville, Tenn.
William Rue Steffey (B.A., Austin)	.....	Sherman, Texas
James Walker Thompson (B.A., King)	.....	Lubbock, Texas
William Earl Thornton (Sr. in Absentia, Western Mich.)	.....	Battle Creek, Mich.
Joseph Nimrod Triplett, Jr. (B.S., Mississippi)	.....	Newton, Miss.
Walker Marshall Turner, Jr. (A.B., Kentucky)	.....	Paducah, Ky.
James Stickney Warson (B.A., Tulane)	.....	Sarasota, Fla.
Paul Wiley Welch (B.A., Vanderbilt)	.....	Cincinnati, Ohio
¹ Robert Farrington Wiley, Jr. (B.A., Asbury)	.....	Wilmore, Ky.
Fremont Philip Wirth, Jr. (B.A., Williams)	.....	Nashville, Tenn.
George Wallace Wood (Sr. in Absentia, Vanderbilt)	.....	Louisville, Ky.
William Ho Tic Yen (B.A., Vanderbilt)	.....	Hong Kong
Edmond Paul Zimsky, Jr. (B.S., The Citadel)	.....	Signal Mountain, Tenn.

¹Special Student

DIVISION OF AUDIOLOGY AND SPEECH PATHOLOGY

Fred Henry Bess (B.A., Carthage)	.....	Freeport, Ill.
Marie Louise Carney (B.A., Sweet Briar)	.....	Nashville, Tenn.
Mary Jane Collins (B.A., Vanderbilt)	.....	Nashville, Tenn.
Jane Louise Hanna (B.A., Vanderbilt)	.....	Louisville, Ky.
Lois Chapman Jacks (B.S., Memphis State)	.....	Littleton, Mass.
Martha Elizabeth Lynch (B.S., Middle Tennessee State)	.....	Watertown, Tenn.
James Charles Malonc (B.A., Vanderbilt)	.....	Tavares, Fla.
George Matthews Marshall (B.A., Mississippi)	.....	Natchez, Miss.
Robert Grover Paul (B.A., Vanderbilt)	.....	Atlanta, Ga.
Betty Lee Rosen (B.S., Peabody)	.....	Nashville, Tenn.
Priscilla Jean Rush (B.A., Lake Forest)	.....	Memphis, Tenn.
Susan Trish Sheridan (B.A., Peabody)	.....	Birmingham, Mich.
Harvey Joel Snyder (B.S., Ithaca)	.....	Islip, N. Y.

INTERNSHIPS

Class of June 1963

George William Benedict.....	Columbus, Ohio
Johns Hopkins Hospital, Baltimore, Maryland	
Willis Ellsworth Brown, Jr.....	Little Rock, Ark.
Vanderbilt University Hospital, Nashville, Tennessee	
Chester Ray Burns.....	Nashville, Tenn.
University Hospitals, Oklahoma City, Oklahoma	
Henry King Butler, Jr.....	Murfreesboro, Tenn.
University of Virginia Hospital, Charlottesville, Virginia	
Ann Ayers Cammarano.....	Olympia, Wash.
Children's Medical Center, Seattle, Washington	
Marvin Edward Deck, Jr.....	Nashville, Tenn.
Butterworth Hospital, Grand Rapids, Michigan	
William Lee Downey.....	Springfield, Tenn.
Vanderbilt University Hospital, Nashville, Tennessee	
Daniel Clark Geddie.....	Atlanta, Ga.
Indiana University Hospitals, Indianapolis, Indiana	
Gordon Nelson Gill.....	Nashville, Tenn.
Vanderbilt University Hospital, Nashville, Tennessee	
Robert Porter Goodman.....	Glasgow, Ky.
Duke Hospital, Durham, North Carolina	
Murphy Howard Green.....	Harlan, Ky.
Indiana University Hospitals, Indianapolis, Indiana	
Robert B. Hale, Jr.....	Wilmington, Del.
Vanderbilt University Hospital, Nashville, Tennessee	
Clio Armitage Harper, Jr.....	Little Rock, Ark.
University Hospital, Little Rock, Arkansas	
John Nance Henry.....	Texarkana, Texas
Duke Hospital, Durham, North Carolina	
Ray Willis Hester.....	Prichard, Ala.
Vanderbilt University Hospital, Nashville, Tennessee	
Louis Giles Horn III.....	Anniston, Ala.
Grace-New Haven Community Hospital, New Haven, Connecticut	
Robert Winston Ikard.....	Columbia, Tenn.
University of Virginia Hospital, Charlottesville, Virginia	
John Wailon Laing.....	Cannelton, W. Va.
Vanderbilt University Hospital, Nashville, Tennessee	
Robert Livingston Lawrence.....	Jackson, Miss.
Vanderbilt University Hospital, Nashville, Tennessee	
Joseph Francis Lentz.....	Nashville, Tenn.
Vanderbilt University Hospital, Nashville, Tennessee	
Harold Newton Lovvorn, Jr.....	Athens, Ala.
University Hospital, Jackson, Mississippi	
James Allen Maddy.....	Los Alamos, N. M.
University of Kentucky Medical Center, Lexington, Kentucky	
Thomas McConnell McCutchen, Jr.....	Florence, S. C.
Vanderbilt University Hospital, Nashville, Tennessee	

William Thomas McKinney, Jr.	Rome, Ga.
North Carolina Baptist Hospital, Winston-Salem, North Carolina	
Billy Sam Moore	Petersburg, Tenn.
Vanderbilt University Hospital, Nashville, Tennessee	
James Carney Overall, Jr.	Nashville, Tenn.
Vanderbilt University Hospital, Nashville, Tennessee	
Ronald Edwin Overfield	Henderson, Ky.
University of Kentucky Medical Center, Lexington, Kentucky	
James Murray Perry, Jr.	Nashville, Tenn.
Strong Memorial-Rochester Municipal Hospital, Rochester, New York	
Joseph Anderson Pinkerton, Jr.	Franklin, Tenn.
Vanderbilt University Hospital, Nashville, Tennessee	
Howard E. Rosen	Nashville, Tenn.
Vanderbilt University Hospital, Nashville, Tennessee	
John Banks Sewell, Jr.	Trinity, Ala.
Duke Hospital, Durham, North Carolina	
Rita Anne Siler	Guthrie, Ky.
University Hospital, Jackson, Mississippi	
Murray Wilton Smith	Nashville, Tenn.
Vanderbilt University Hospital, Nashville, Tennessee	
Harry Calvin Stephenson	Jamestown, Ky.
State University of Iowa Hospitals, Iowa City, Iowa	
David Dawson Thombs	Nashville, Tenn.
Vanderbilt University Hospital, Nashville, Tennessee	
James Bentley Threlkel	Owensboro, Ky.
Vanderbilt University Hospital, Nashville, Tennessee	
Ronald James Vasu	Detroit, Mich.
Indiana University Hospitals, Indianapolis, Indiana	
John Harley Walsh	Jackson, Miss.
New York Hospital-Cornell Medical Center, New York, New York	
Michael Brady Wilhoit	Grayson, Ky.
University Hospital, Jackson, Mississippi	
Roy Rush Wright	Opp, Ala.
Vanderbilt University Hospital, Nashville, Tennessee	
Paul S. York, Jr.	Glasgow, Ky.
Jefferson Davis Hospital, Houston, Texas	
Robert Stanley Yusk	Dickson, Tenn.
Vanderbilt University Hospital, Nashville, Tennessee	
Glenn Allen Zimmermann	Detroit, Mich.
Butterworth Hospital, Grand Rapids, Michigan	

MEDALS, PRIZES, AND SCHOLARSHIPS

For the Year 1962-63

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

WILLIS ELLSWORTH BROWN, JR..... Little Rock, Ark.

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

WILLIAM THOMAS MCKINNEY, JR..... Rome, Ga.

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

ROY RUSH WRIGHT..... Nashville, Tenn.

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

JOHN TOLBERT JONES..... Monterey Park, Cal.

ALAN STEPHEN ROSENTHAL..... Nashville, Tenn.

ALPHA OMEGA ALPHA

Scholarship Society of the School of Medicine

FOURTH-YEAR CLASS

GEORGE WILLIAM BENEDICT..... Columbus, Ohio
WILLIS ELLSWORTH BROWN, JR..... Little Rock, Ark.
MARVIN EDWARD DECK, JR..... Nashville, Tenn.
GORDON NELSON GILL..... Nashville, Tenn.
JOSEPH FRANCIS LENTZ..... Nashville, Tenn.
JAMES CARNEY OVERALL, JR..... Nashville, Tenn.
MURRAY WILTON SMITH..... Nashville, Tenn.
JOHN HARLEY WALSH..... Jackson, Miss.

THIRD YEAR CLASS

ALEXANDER ROBERT LAWTON..... Atlanta, Ga.
JOHN ROBERT SCHWEIKERT..... Cincinnati, Ohio