THE BULLETIN OF CALLEY VANDERBILT UNIVERSITY

# Medicine

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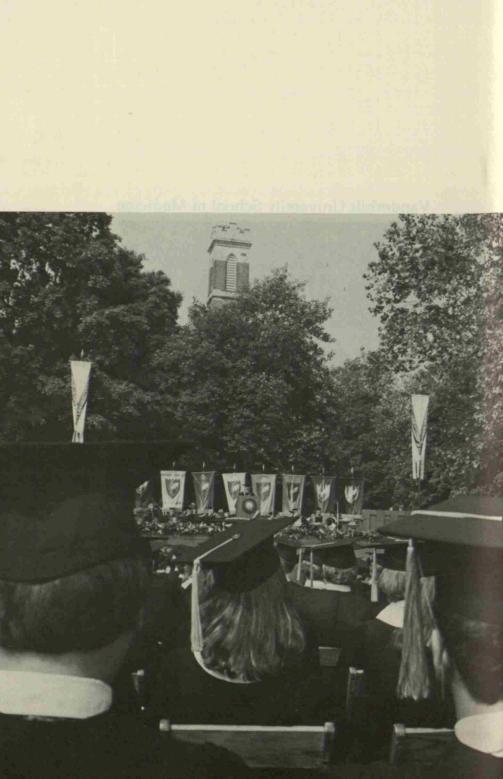
# THE BULLETIN OF VANDERBILT UNIVERSITY Volume 78, Number 8 February 1979

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Bulletins of the College of Arts and Science, School of Engineering, and School of Nursing are available on request from the Office of Undergraduate Admissions. Bulletins of the Graduate School and the schools of Divinity, Law, Management, and Medicine are available on request from the dean of the appropriate school.

Vanderbilt University School of Medicine







# School of Medicine

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Vanderbilt University 1978–79

Containing general information appointments and courses of study for the 1978–79 session corrected to 1 September 1978 Nashville

#### School of Medicine Calendar, 1978-79

#### FALL SEMESTER 1978

Registration 2nd, 3rd, and 4th years / Monday 28 August to 30 August Classes begin 3rd year / Monday 28 August Registration 1st year / Tuesday 29 August to 30 August Classes begin 1st, 2nd, and 4th years / Thursday 31 August Thanksgiving Day: a holiday / Thursday 23 November Examination period 1st and 2nd years / Monday 18 December to 20 December Fall semester ends / Wednesday 20 December Christmas holidays begin / Thursday 21 December

#### SPRING SEMESTER 1979

Spring semester begins / Tuesday 2 January
Spring holidays 1st and 2nd years / Sunday 4 March to 11 March
Founder's Day / Saturday 17 March
Spring holidays 3rd year / Sunday 8 April to 15 April
National Boards (Part II) 4th year / Tuesday 10 April to 11 April
Spring holidays 4th year / Thursday 12 April to 15 April
Examination period 1st and 2nd years / Monday 7 May to 10 May
Commencement / Friday 11 May
National Boards (Part I) 2nd year / Tuesday 12 June to 13 June
Examination period 3rd year / Monday 25 June to 28 June

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EXECUTIVE COMMITTEE OF THE EXECUTIVE FACULTY. John E. Chapman, Chairman. Lonnie S. Burnett, Leon W. Cunningham, James H. Elliott, William H. Hartmann, Albert S. Kaplan, Grant W. Liddle.

#### Standing Committees

(The Dean is an ex officio member of all standing and special committees.)

#### Admissions

The Admissions Committee has the responsibility of reviewing Medical School applications for admission and making recommendations to the Dean for the admission of those students who are considered best qualified.

F. Tremaine Billings, Chairman. Joseph H. Allen, Jr., Oscar B. Crofford, Jr., Robert W. Harrison, Robert A. Neal, David M. Regen, Sarah H. Sell, John S. Sergent, Warren W. Webb. Ex officio: Philip W. Felts, Richard M. Scott.

#### **Advisory Council**

The Advisory Council provides a formal structure for the synthesis of faculty opinion. It is advisory and has no power to implement its opinion except through the Dean. The council should provide the Dean and Executive Faculty with a long-range perspective on issues that the administration and Executive Faculty may not have the opportunity to develop while responding to day-to-day crises. Furthermore, the Advisory Council provides the faculty with an alternative channel of communication with the Dean through representatives other than the appointed departmental chairmen who compose the Executive Faculty.

GARY W. DUNCAN, Chairman. Fay M. Gaskins, S. Julian Gibbs, Robert W. Harrison, H. C. Meng, David L. Page, John S. Sergent, James D. Snell, Jr., W. Anderson Spickard, Conrad Wagner.

#### **Standing Policy Committees**

Report to the Advisory Council. (For committee charges, see *Rules and Procedures of the School of Medicine*, Article II.) Each committee has a student representative.

- BIOMEDICAL SCIENCES. Robert W. Harrison, Chairman. Vivien Casagrande, Susan A. Halter, Peter K. Law, Edward Siegel, Jack N. Wells.
- FACULTY. H. C. Meng, Chairman. James Gerlock, Jr., Neil Edward Green, Russell Love, Howard B. Roback, Benjamin J. Wilson.
- GOALS AND GOVERNANCE. S. Julian Gibbs, Chairman. Harry P. Broquist, C. Denton Buchanan, T. Mark Hodges, Paulette G. Lankford, Mildred Stahlman.
- HEALTH CARE. Fay M. Gaskins, Chairman. F. Tremaine Billings, Craig Coulam, Charles W. Quimby, Jr., James M. Perrin, Raphael Smith.
- HOUSE STAFF. John S. Sergent, Chairman. Arthur L. Brooks, Miles K. Crowder, Richard H. Dean, Joann L. Linn, Bruce I. Turner.
- MEDICAL EDUCATION. James D. Snell, *Chairman*. Robert F. Baxter, John G. Coniglio, Dixie W. Frederiksen, Robert G. Horn, Frederick K. Kirchner.

#### Clinical Research Center

The Clinical Research Center Committee meets regularly to act upon new and current faculty research proposals for the use of the center, to formulate policy and review all aspects of the administration of the center, and to approve reports and applications by the center to the National Institutes of Health.

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William W. Lacy, Chairman. Kenneth L. Brigham, John G. Coniglio, Oscar B. Crofford, John H. Exton, Jacek Hawiger, Virgil LeQuire, David N. Orth, Frederick A. Wilson, Raymond Woosley. Ex officio, John H. Hash.

#### **Continuing Education**

The Continuing Education Committee has the responsibility of developing policies and providing leadership, liaison, and recommendation in the matter of departmental and institutional programs of instruction designed for presentation to those who have completed formal studies in their respective health fields. This year the committee should pay special attention to short- and long-range efforts in which the Medical School can feasibly be involved.

Dr. Paul E. Slaton, Jr, Chairman. Frank H. Boehm, Miles K. Crowder, John S. Derryberry, Thomas P. Graham, Jr., Ronald E. Rosenthal, John L. Sawyers, Steven L. Stroup.

#### Dean's Committee for Veterans Administration Hospital

The Dean's Committee is the fundamental administrative unit for development, control, and evaluation of educational programs at affiliated hospitals. It is composed of senior faculty members of school(s) of medicine associated with the V.A. Hospital. Vanderbilt Medical School members are appointed by the chief medical director of the Veterans Administration Hospital on nomination by the Dean of the Medical School.

Vernon E. Wilson, Chairman. John E. Chapman, Walter G. Gobbel, Jr., Leon W. Cunningham, Lloyd Elam, James H. Elliott, Paul Gazzerro, Jr., Joseph C. Gillespie, Paul P. Griffin, William H. Hartmann, A. Everette James, Jr., William Kreykes, Grant L. Liddle, H. William Scott, Jr., C. Richard Treadway.

#### **Educational Programs and Student Affairs**

The Educational Programs and Student Affairs Committee is composed of students, faculty, and administration and serves as a forum for exchange of views and a continuing review of educational programs and policies in the broad spectrum of student affairs and medical education, and recommends to the Executive Faculty and Dean actions and policies which have the committee endorsement in these areas of responsibility.

Philip W. Felts, Chairman. Alan D. Cherrington, John G. Coniglio, Sandra G. Kirchner, John L. Shapiro, James D. Snell. Student Members: Dan Green, James Robert Cato. Consultants: Deborah L. Bryant, Dave Bylund, Thomas Jefferson Stokes, Jr.

#### **Faculty Promotions and Appointments**

This committee, appointed by the Dean, is responsible for consideration of faculty promotions in the School of Medicine and for examination of credentials of candidates for appointment to positions on the faculty.

John G. Coniglio, *Chairman*. Lonnie S. Burnett, Albert S. Kaplan, John Lukens, H. C. Meng, Martin G. Netsky, James A. O'Neill, Jr., Steven Schenker. *Ex officio*: Lloyd H. Ramsey.

#### **Graduate Education**

The Graduate Education Committee is the faculty body concerned with graduate student affairs and graduate programs in the Medical Center.

Leon W. Cunningham, *Chairman*. J.D. Corbin, Charles F. Federspiel, Loren H. Hoffman, Virgil LeQuire, Jay Sanders, Sue A. Moyer.

#### Institutional Review Board for the Protection of Human Subjects

Vernon E. Wilson, Chairman.

The Institutional Review Board for the Protection of Human Subjects comprises a chairman and the committees of Behavioral Sciences and Health Sciences, which are composed of physicians, behavioral scientists, a staff attorney, and community members. Acting through its two committees, the board reviews research proposals involving human subjects with respect to the rights and welfare of the human subjects, the appropriateness of methods used to obtain informed consent, and the risks and potential benefits of the investigation. Approval of the board or one of its component committees is required prior to initiation of any investigation.

#### Behavioral Sciences Committee

Richard D. Odom, *Chairman*. Robert Coleman, Glenn A. Firebaugh, Walter R. Gove, Jum C. Nunnally, John S. Sergent, Donald L. Thistlethwaite, Raymond Woosley.

#### Health Sciences Committee

Fred V. Lucas, *Chairman*. Robert A. Branch, C. Denton Buchanan, Ian M. Burr, Kathryn R. Costello, John H. Hash, Ellen Bradford Lea, John B. Marshall, H. C. Meng, Robert A. Neal, Richard S. Stein, William J. Stone, Juan Touya.

#### M.D./Ph.D. Committee

The M.D./Ph.D. Committee has responsibility for admitting students to the M.D./Ph.D. program; for recommending candidates for fellowships and other funds available for the program; and for maintaining, on a continuing basis, a review of the activities and progress of the students in the program.

Charles Rawlinson Park, Chairman, Leon W. Cunningham, Jack Davies, Joel G. Hardman, Thomas T. Harris, Albert S. Kaplan, Virgil S. LeQuire, Edward Siegel, Oscar Touster. Ex officio: Daniel M. Buxbaum, Richard M. Scott.

#### **Medical Center Library**

The Medical Center Library Committee advises and informs the library director on developments likely to affect the library, helps bring about and support necessary changes in library policy and procedure, and assists and guides the director in raising funds for library support and in developing library policy.

William Schaffner, Chairman. Reba C. Barrett, Thomas E. Brittingham, Martin G. Netsky. Two members from the School of Nursing to be appointed. Student Members: Stephen Lamar Jones, Gregory William Shields. Ex officio: Frank P. Grisham, T. Mark Hodges.

#### Promotions (First and Second Year)

The Promotions Committee of the first and second years has the responsibility for reviewing student progress in each of these years and of making recommendations to the Executive Faculty concerning the progress and promotion of each student.

John G. Coniglio, Chairman. Robert F. Baxter, Alvin M. Burt III, Gary Duncan, William A. Gardner, Loren H. Hoffman, Lewis B. Lefkowitz, Jr., L. Clifford McKee, M. Ann Melly, Thomas Guv Pennington, David M. Regen. Ex officio: Philip W. Felts, Richard M. Scott.

#### Promotions (Third and Fourth Year)

The Promotions Committee of the third and fourth years has the responsibility of reviewing student progress in each of these years and making recommendations to the Executive Faculty concerning the promotion of students, in the case of the third year, and recommending to the Executive Faculty those students completing the fourth year who are deemed qualified to receive the M.D. degree.

Frank H. Boehm, *Chairman*. Robert F. Baxter, John G. Coniglio, Gary Duncan, Conrad G. Julian, John Lukens, James A. O'Neill, Jr., Ronald E. Rosenthal, John S. Sergent. *Ex officio*: Philip W. Felts, Richard M. Scott.

#### Special Student Programs—Fellowships and Merit Awards

The committee is charged with responsibility for the overall coordinating of free-time fellowship experiences for medical students throughout the Medical School and elsewhere and recommends to the Executive Faculty institutional policy in this regard.

Philip W. Felts, Chairman. Robert N. Brady, Ian M. Burr, Marcus C. Houston, David N. Orth. Student Members: Richard Bessent, Lee Jordan. Consultant: Linda L. Hawkins.

#### **University Animal Care Committee**

The University Committee on Animal Care is responsible for the establishment and periodic review of University policy on the humane care and use of animals in experimentation. While not involved in the direct administration of any animal facility, the committee will make recommendations to the President on policies maintained by these facilities.

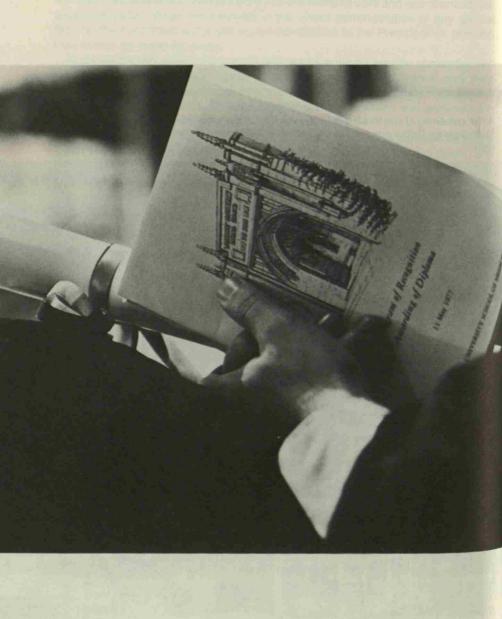
In reviewing and establishing such policies for animal care, the committee will consider prevailing federal, state, and local laws and guidelines and their applicability to situations unique to the Vanderbilt experience. The committee will also be concerned that its policies lead to standards which will enhance the quality of scientific investigation in the University.

The committee will be free to consult with and take recommendations to the Vice-President for Medical Affairs, the Provost and Executive Vice-President, and the deans of the various schools of the University as it formulates and reviews animal care policies.

Kenneth L. Brigham, Chairman. Robert R. Appleson, Thomas F. Barnes, Robert J. Barrett, Robert C. Boerth, Richard H. Dean, Robert Fox, Myron Holscher, James McKanna, H. C. Meng, Gary Novak, Laken G. Warnock, Marie Tallman Wasson, John A. Waterman.

Artist's rendering of new Vanderbilt University Medical Center scheduled for completion by 1980. Parking garage (left) is connected by bridge to the 515-bed hospital. Rudolph A. Light Hall is at the right.





# On Becoming a Physician

ANDERBILT Medical School is committed to a program of physician education that is firmly grounded in basic medical science with emphasis on primary and tertiary health care and with sensitivity to the critical national need for improved health care delivery.

Medical students are instructed in formal lecture, seminar, and laboratory sessions, are involved in the learning experience of clinical activities, and are trained in scientific research methods for the solution of health problems. All three elements are inherent in the educational

process of becoming a physician.

The essential components of teaching, research, and clinical experience are universal in all schools awarding the M.D. degree, and a minimum level of mastery is necessary if the student is to have the fundamental base of knowledge from which to launch a career in medicine. But the intensity with which the elements are applied varies, reflecting the different objectives and character of the nation's several medical schools and the aspirations of individual medical students.

The quality of the undergraduate medical student body as reflected in college record, medical college admissions test, interview impressions, and medical school attrition rate continues to improve year by year at Vanderbilt. The class of 103 first-year students in 1978 was selected from well over 6,000 applicants. The Medical School has one of the lowest attrition rates in the nation; less than 2 percent of Vanderbilt medical students fail to graduate within four years, compared to a national rate of 9 percent.

The excellence and outcome of the undergraduate medical education program can be demonstrated in several ways. A large percentage of Vanderbilt graduates continue in post-graduate training and Vanderbilt always ranks high on the National Board examinations. Vanderbilt has sustained its national status as a front rank medical school on the basis of a superior educational program, outstanding research productivity, and the prominence of its faculty effort on the local, national, and international scene.

#### The Nature of Medical Education

Medicine is a science-based profession, deeply grounded in humanitarian service. Its practice involves bringing the latest scientific

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knowledge and technology to bear upon the diagnosis, treatment, and prevention of disease and the maintenance of health by means and procedures whose efficacy and validity have been rationally demonstrated.

Because medicine involves the application of a changing body of knowledge to the problems of health and disease, its students must have direct encounter with the scientific process and the current state of knowledge in the biomedical sciences. Similarly, the faculty of medicine must be engaged in the advancement of that knowledge. Students must be trained by educators who are capable of teaching up-to-date science, not merely imparting information they themselves were taught, a good part of which will have become obsolete. This can be accomplished only by a faculty that is involved in adequate measure with developments at the frontiers of scientific knowledge, in many diverse areas, through such scholarly pursuits as their own research activities.

Undergraduate medical education is but the beginning of a continuous process. After graduation from medical school there is a period of further formal training in specialized areas of medicine. For the physician who aspires to a career in academic medicine, additional post-doctoral training in research is desirable to qualify for a position on a medical school faculty. And for all physicians, during their active careers in medicine, a continuing need exists for self-improvement and study. The Vanderbilt program is designed to provide a sound basis for the physician graduate to enter any field of medicine in which he or she wishes to focus—family medicine, specialty medicine, academic medicine, or other pursuits relating to health and disease.

#### Objectives of the Program

The medical education faculty seeks to provide the aspiring physician with:

An understanding of the fundamental principles involved in human development, from its normal sequence to the disorders of development, structure, and function.

To reach this understanding, the student must acquire basic knowledge concerning the physical, chemical, biological, psychological, and social factors which affect human development.

The basic diagnostic skills to recognize disease and disorders in the patient. To acquire these skills, the student must be trained to perform physical examinations and laboratory tests, and to interpret the results in the framework of the patient's unique history.

The knowledge of operative and therapeutic procedures to treat disease and disorders, and the techniques and resources for their prevention.

To acquire this knowledge, the student must have a direct involvement with sick patients and the clinical processes requisite for their treatment, and with the means available for the prevention of disease and for the maintenance of health.

The training that will enable the student to keep abreast of developments in medicine after the M.D. degree is earned.

The exponential rate at which medical knowledge has grown in the recent past, and the likelihood that it will continue to expand at an equally rapid rate in the future make it imperative that the student be exposed to the method, rigors, and techniques of scientific research in order to be able to evaluate the results of scientific investigation and use them wisely.

Vanderbilt has completed a century of professional medical education in a proud tradition. We begin our second century intensely aware of the tremendous efforts the future demands and prepared to participate in the constantly-evolving continuum of education with a keen sense of what the health care needs of tomorrow will be. Vanderbilt Medical School is charged to lead in identifying and meeting those needs, simultaneously enhancing already-developed strengths and examining changes from an historical perspective with concern for our focused mission as a school of medicine. If we are to avoid future shock, it will be because of the diversity of emphasis and strength which we have learned to rely upon during Vanderbilt's first hundred years.

#### The University

Vanderbilt celebrated the centennial of its founding in 1973. Commodore Cornelius Vanderbilt gave a million dollars to build and endow the University, with the wish that it would "contribute to strengthening the ties which should exist between all sections of our common country." The University has been the fortunate recipient of continued support from the Vanderbilt family and other private citizens.

Today, Vanderbilt more than fulfills the Commodore's hope. It is one of a handful of small private universities with a quality undergraduate program and a full range of graduate and professional programs—a private, selective university with a diverse student body of about 7,000. In the truest sense Vanderbilt is a "university" with the opportunity for involvement and contact with students in other disciplines and multidisciplinary study and research.

The 260-acre campus is about one-and-a-half miles from the down-town business district of the city, combining the advantages of an urban location with a peaceful and park-like setting of broad sweeping lawns, shaded paths, and quiet plazas.

Facilities off the campus include the Arthur J. Dyer Observatory,

situated on a 1,131-foot hill six miles south.

The eight schools of the University offer the following degrees:

College of Arts and Science. Bachelor of Arts, Bachelor of Science.

Graduate School. Master of Arts, Master of Arts in Teaching, Master of Science, Doctor of Philosophy.

Divinity School. Master of Divinity, Doctor of Ministry.

School of Engineering. Bachelor of Engineering, Bachelor of Science, Master of Engineering.

School of Law. Doctor of Jurisprudence.

Owen Graduate School of Management. Master of Management, Master of Business Administration, Doctor of Management.

School of Medicine. Doctor of Medicine.

School of Nursing. Bachelor of Science in Nursing, Master of Science in Nursing.

Vanderbilt is a member of the Association of American Universities and is accredited by the Southern Association of Colleges and Schools.

#### History of the School

The first diplomas of graduation from Vanderbilt University were issued to sixty-one new Doctors of Medicine on 25 February 1875, in an arrangement 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 composed the faculty and received the fees paid by 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 admission requirements, the curriculum, or standards for graduation.

In 1895, the school was reorganized under control of the Board of Trust. Admission requirements 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.

The famous report of Abraham Flexner, published by the Carnegie Foundation in 1910 and 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." 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 philanthropies, 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.

During the phase of medical education which has evolved as an aftermath of the Flexner Report, Vanderbilt Medical School has built its educational program on a diverse base, grounded in biomedical science research and with emphasis on improved health services.

#### Vanderbilt Medical Center

The Medical School fulfills one of the three missions of Vanderbilt Medical Center. The center's aim is to provide an environment in which students can learn the art and science of the medical profession and patients can receive the best possible care, while medical teachers and creative scientific scholars educate, heal, and work to unravel the mysteries of disease and pain.

The Medical Center seeks an appropriate balance between professional education; research; primary, secondary, and tertiary health care; and community education. The outstanding service of the Medical Center, and notably that of Children's Hospital, has established Vanderbilt's reputation as a referral center for the Southeast. Physicians from Tennessee, Kentucky, and Alabama, as well as from other states and several foreign countries, refer patients to Vanderbilt with medical problems which demand interdisciplinary skill and expert knowledge. As a result, students in the School of Medicine are exposed in the learning experience to a wider range of diseases and conditions than they would be likely to encounter in many years of private practice.

Laboratories and clinical facilities of the Medical Center are closely coordinated to allow a ready flow of ideas between medical science laboratories, inpatient units, and outpatient clinics. This integration, which has facilitated interdisciplinary research activities between the

clinical and basic medical sciences, is one of the strongest aspects of the Medical Center's programs.

#### Canby Robinson Society

Endorsed by Vanderbilt University to encourage leadership in maintaining support of medical education, research, and patient care activities, the Canby Robinson Society is named for the man who was the primary architect of the physical facilities and responsible for the intellectual climate of the Vanderbilt Medical Center.

Dean of the School of Medicine for only eight years, 1920 to 1928, Dr. Canby Robinson with the full support of Chancellor James H. Kirkland and of wealthy foundations literally transformed the School of Medicine from the traditional physician/apprentice proprietary institution which it had been since its founding, to a university medical school with a full-time teaching faculty—forerunner of the medical center as it is known today.

The Canby Robinson Society has been formed to recognize and honor individuals for interest in and financial support of the Medical Center as it moves into a new era of development. Robinson Society members have an opportunity to become better informed about Vanderbilt's medical programs and plans and to serve as advisers to and ambassadors for the Medical Center.

#### **Facilities**

When the school's new quarters on the main University campus were opened in 1925, they were called "the best arranged combination school and hospital to be found in the United States." The hospital was expanded by a number of beds in 1940 and again in the early 1960s. In the summer of 1977 ground was broken for a new University Hospital. It will take approximately three years to complete and will contain 514 beds within about 460,000 square feet of enclosed space.

The present hospital contains 535 beds and forty-five bassinets in seven service units: medicine, surgery, obstetrics and gynecology, pediatrics, ophthalmology, orthopedics, and psychiatry. There are eleven operating rooms and three delivery rooms. Outpatient clinics contain a series of examining, treatment, and teaching rooms for general medicine and surgery, dermatology, dental surgery, gynecology, neurology, obstetrics, ophthalmology, orthopedic surgery, otolaryngology, pediatrics, plastic surgery, psychiatry, and urology.

An addition to the Medical Center completed in 1977 provides space for nuclear medicine and the Obstetrics Outpatient Clinic. Several other

new buildings are currently under construction and will be completed in the near future. Some of the principal units that constitute the Medical Center are included in the following list.

Rudolph A. Light Hall. This medical education building, of major significance to the School of Medicine, provides classroom and laboratory space for teaching and research. Named for Dr. Rudolph A. Light, former professor of surgery and member of the Board of Trust, it was completed in the summer of 1977. Light Hall is connected by a tunnel to the West Wing of the present hospital.

A. B. Learned Laboratories. Used for research in the sciences basic to medicine and health-related research being conducted by members of the University's medical and graduate faculty. This building, which

joins the main building on the north, was completed in 1961.

Joe and Howard Werthan Building. Completed in 1972, houses offices of the Department of Psychiatry, the Clinical Research Center, laboratory space for clinical divisions, and lecture and conference rooms. The Clinical Research Center, a United States Public Health Service regional facility for research in clinical medicine, contains twenty-one 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.

West Wing. This addition to Vanderbilt University Hospital is a 154bed patient care facility completed in 1962. The wing, which joins the main building at the southwest corner, is circular in shape with the nursing station on each floor located in the center, surrounded by rooms for patients. The wing houses a portion of the Children's Hospital.

West Court Building. Completed in 1964, the West Court building contains a greatly expanded X-ray Department, the main entrance to the University Hospital, offices for admission and discharge of patients, a newborn nursery, and additional space for the Department of Pediatrics and the Children's Hospital.

Zerfoss Student Health Center. Includes outpatient facilities and a twenty-six-bed inpatient unit. The center was completed in 1967.

Northwest Court Building. Completed in March of 1970, this building provides space for the Department of Neurology, the Division of Biomedical Sciences, the Division of Financial Management, and administrative offices for the Medical School.

Medical Arts Building. Erected in 1955 to provide part-time members of the clinical faculty with convenient office space.

Mary Ragland Godchaux Hall. Houses the Vanderbilt University

School of Nursing.

Bill Wilkerson Hearing and Speech Center. A community-operated diagnostic and treatment center for audiological and speech problems.

Medical Center South. Includes in-patient facilities for psychiatry and the Jerry Lewis Neuromuscular Disease Research Center.

The Cooper Building. Nine miles from campus, on the grounds of the Middle Tennessee Mental Health Institute, the Cooper Building has been made available to Vanderbilt by the State of Tennessee. It houses Tennessee Neuropsychiatric Institute, which is dedicated to clinical and basic research in the area of mental health.

In addition to clinical facilities offered by the inpatient units and outpatient clinics of the University Hospital, Vanderbilt is also closely affiliated with the 500-bed Veterans Administration Hospital, it being a Dean's Committee hospital containing 240 acute care beds and outpatient facilities. The Nashville Metropolitan General Hospital and St. Thomas Hospital are also affiliates of the School of Medicine for its educational programs.

#### The Library

The Medical Center Library was founded as the library of the School of Medicine in 1906. It was moved to its present location in the Medical Center in 1964; these quarters were improved and expanded in 1977. In common with other libraries on campus, the library became in 1938 a part of the Joint University Libraries (JUL) system which encompasses the libraries of Vanderbilt University, Peabody College, and Scarritt College. Through facilities of the JUL the reader has access to well over 1,400,000 volumes covering all fields of knowledge. Divisions of JUL on the Vanderbilt campus, in addition to Medicine, are the Central Library and the libraries of Science, Divinity, Law, and Management.

The Medical Center Library serves the bibliographical and informational needs of all at Vanderbilt University who are engaged in the study, teaching, or practice of the health sciences. The nucleus of the collection was the private library of Dr. Richard Douglas, donated by the Nashville Academy of Medicine. Over the years, the collection has been augmented and enriched by gifts, large and small, in cash and in kind, from numerous individuals and institutions. Contributions are invited from those who wish to honor or memorialize relatives, friends, or colleagues. Foundation and government grants have also played their part in building and strengthening the library; however, the School of Medicine has traditionally provided the major portion of the library's budget, with additional support now coming from the School of Nursing, the Hospital, and other Medical Center sources.

The library contains over 100,000 volumes, of which about two-thirds are bound periodicals. It receives more than 1,600 current periodicals and serial publications. There is seating for 200 readers. A collection of

materials illustrating the history and development of the literature of medicine, especially that of the United States, is kept in the History of Medicine Room. The library is also developing a collection of personal papers of prominent medical educators and researchers. Individuals represented in this collection include: Dr. Amos Christie, Dr. Paul Fitzsimmons Eve, Dr. Joseph Goldberger, Dr. Rudolph H. Kampmeier, and Dr. W. Henry Sebrell, Ir.

A wide range of services is available, including reference assistance and advice on bibliographic matters; instruction and orientation in use of the library; literature searches; information retrieval; document delivery and inter-library loan; and the usual circulation, reserve book circulation, and copying services. The library is open 100 hours each week. Reference service is available during the day, and a professional librarian is on duty most evenings during the academic year.

The Medical Center Library participates in various cooperative ventures and projects, including the Southeastern Regional Medical Library Program (SERMLP) which provides bibliographic outreach service to the region's hospitals and other health-care institutions. The library has on-line access to the several computer-based information retrieval services that are now available. More detailed information is available at the library.

Development of the library depends very much on the interest of its users. Suggestions for acquisitions and for the improvement of services are invited and encouraged.

#### Professional Staff

T. MARK HODGES, A.L.A., Assistant Professor of Medical Administration, Director

BYRD S. HELGUERA, M.L.S., Associate Director SHARON K. BUTLER, M.L.S., Reference Librarian

WILLIAM J. DARBY, M.D., Ph.D., Honorary Curator for Special Medical Collections-Nutrition MARY LOUISE GLADISH, M.S.P.H., M.A., M.L.S., Head Reference Librarian

ELLEN HALE, M.S.L.S., Head Technical Services Librarian

FRANCES LYNCH, M.L.S., Serials Librarian

HARRY S. SHELLEY, M.D., Honorary Curator of the Historical Collection

ANN B. STORY, M.S.L.S., Monographs Librarian

MARY H. TELOH, M.A., Special Collections Librarian

MARGARET W. WESTLAKE, M.L.S., Reference Librarian

#### Nashville University Center

Vanderbilt is a member of a consortium of universities and colleges called the Nashville University Center. Other member institutions are Fisk University, Meharry Medical College, George Peabody College for Teachers, and Scarritt College for Christian Workers. An interchange of courses is permitted among the member institutions.

#### The City

A medical student is benefited in many ways by attending school in Nashville, a city of over half a million situated in the bluegrass region of Middle Tennessee. In 1964, Nashville and surrounding Davidson County were merged to form a metropolitan government system, one of the country's most significant developments in local government.

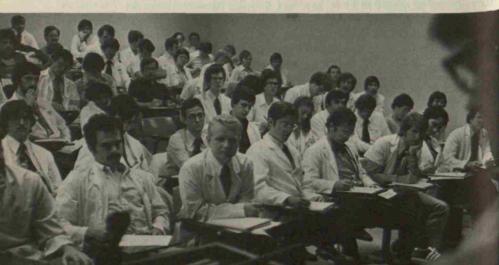
The city's fifteen colleges and universities include two major medical schools, and the study of medicine is enriched by Nashville's status as a

regional medical center for the Southeastern states.

Nashville offers much beyond the study of medicine. Known as "Music City U.S.A," it is a leading center for music and the recording industry, with musical attractions ranging from the "Grand Ole Opry," America's oldest radio show, to the Nashville Symphony Orchestra. Recreational opportunities are in abundance. There are more than 5,000 acres of public parks in the city, and the surrounding region of lakes and rolling hills is dotted with parks and recreation areas. Students enjoy Centennial Park across the street from the campus, and some of the country's best bluegrass music just one block away.

Nashville is above all a dynamic and optimistic city. It has a growing population and one of the healthiest and most diversified economic

bases in the nation.



### Admission

HE School of Medicine selects its students from the following three categories:

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 college after having completed successfully one year of work in the School of Medicine. A properly accredited statement to this effect from the college shall accompany all applications for admission as seniors in absentia. A form is furnished for this purpose.

3. Students of U.S. or foreign universities of recognized standing who have completed three years of collegiate education may be admitted to the School of Medicine at the discretion of the Committee on Admis-

sions.

Decisions regarding an invitation to study medicine at Vanderbilt are made by the Committee on Admissions based upon an evaluation of the applicant's ability, preparation, motivation, and suitability to function as a medical student and thereafter as a physician in general practice, in one of the specialties, in research medicine, or in other endeavors based upon the M.D. degree.

#### Minimum Requirements

Candidates must present evidence of having satisfactorily completed during the undergraduate years 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:

Biology. Eight semester hours including laboratory work. The course may be general biology, zoology, or zoology and botany, or similar studies in biological science, but not more than half may be botany.

Chemistry. A minimum of 16 semester hours is required. Eight of these must be in general inorganic chemistry including laboratory work. A minimum of 8 semester hours credit in organic chemistry is required, covering aliphatic and aromatic compounds and including lab work.

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

work.

English and Composition. Six semester hours.

Candidates are urged to take courses in college which will strengthen their foundation in basic natural and social sciences, mathematics, and cultural background.

#### **Medical College Admission Test**

The Medical College Admission 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. Since the examination score is used by medical schools in the selection of applicants, candidates should take the test, at the latest, in the spring prior to the time application is submitted.

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

#### **Application Procedure for Admission**

As a convenience to the applicant, Vanderbilt School of Medicine participates in the American Medical College Application Service. All application materials may be obtained through AMCAS by writing:

American Medical College Application Service Association of American Medical Colleges Suite 301 1776 Massachusetts Avenue Northwest Washington, D.C. 20036

The Committee on Admissions evaluates the initial application received through the application service. Applicants receiving favorable initial review are invited to file a final application which includes an interview and a request for letters of evaluation. Applications are received any time after 15 June and before 1 November preceding an anticipated fall semester enrollment date. Vanderbilt participates in the Early Decision Program through the American Medical College Application Service.

Successful applicants who receive official invitations are required to make a deposit of \$50. This deposit is credited toward payment of the first tuition and is returnable until 1 March, in the event the student does not matriculate.

#### **Visiting Students**

Visiting students are permitted in the Medical School, providing class space is available, with approval of the department in which course work is visited and with concurrence of the course instructor and the Associate Dean for Medical Education. Visiting students must present evidence of adequate professional liability coverage and health insurance coverage. Since visiting students have no status as Vanderbilt medical students they are not issued credit for their experience, nor do they establish a medical school—based record. The regular opportunities and prerogatives of regularly enrolled medical students are not available to visiting students. The visiting student is subject to all regulations of the University as well as to any special regulations relating to visiting student status as determined by the department, the course instructor, or the Dean or his deputy.

Rudolph A. Light Hall





# The Academic Program

HE curriculum is divided into a basic set of required courses taken by all students and elective courses which may be chosen. Required courses constitute the nucleus of medical education at Vanderbilt; elective courses are an integral part of each student's educational experience in the Medical School, providing considerable flexibility in individual programs. Each student is assigned a faculty adviser to aid in the selection of elective courses; and the program of electives must be approved by the Dean or his designate.

All electives are courses for credit, graded on the same basis as required courses. The following types of courses may be elected: lecture series; specialty clinics, clinical clerkships, or research experience, at Vanderbilt or other institutions; Vanderbilt undergraduate or graduate

courses.

Two hours each week have been designated for presentations of school-wide interest, e.g., lectureships, medical society meetings, student papers. The attendance of all students and faculty is expected.

The Medical School curriculum is scheduled in conjunction with the common University calendar, and is divided on a semester basis. Students are encouraged to participate in a summer research fellowship program.

The curriculum is under constant review by both faculty and students, and is subject to timely change as recommended by the Educational Programs and Student Affairs Committee and approved by the Executive Faculty.

#### **Major Courses**

First Year. Biochemistry, gross anatomy, histology, the nervous system, physiology, and psychiatry. Most of the year is spent in the study of anatomy, biochemistry, and physiology. Saturday mornings and all day Wednesday during the second semester are reserved for study and electives. Electives available to the freshman cover a wide range of subjects, e.g., fundamental principles in use of radioisotopes, topics in general physiology, medicine in families and the community, medical genetics, medical ethics.

Second Year. Methods in clinical science, microbiology, pathology, and pharmacology. Courses include microbiology, pathology, pharmacology, medical statistics, preventive medicine, and psychiatry. Students begin the study of patients during the second semester, when all the clinical departments cooperate in providing an introduction to history taking, physical examination, and laboratory study of patients through a series of lectures, demonstrations, and individual practice by the student. A variety of electives may be taken, either on Wednesday or at times scattered through the week.

Third Year. Medicine, obstetrics-gynecology, pediatrics, surgery, psychiatry, neurology, and orthopedics. Ward clerkships occupy the third year. Students have close contact with a limited number of selected patients under the supervision of attending physicians and house staff.

Fourth Year. Elective experiences in basic science and/or clinical areas. During one semester seniors serve as clinical clerks in electives in the Outpatient Service. Here they have opportunity to see disease in its earlier stages, when diagnosis is more difficult, under conditions of office practice, and with opportunities for follow-up examinations and observation over relatively long periods.

Seniors have an entire semester designated as elective for inpatient clerkships. The opportunities for use of this elective semester include research fellowships in a clinical or preclinical department, at Vanderbilt or other institutions: advanced ward clerkships in clinical areas; combinations of a variety of specialty clinics and lecture courses. The flexibility of the fourth-year curriculum gives the student maximum opportunity for individual development.

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		Dean's Hour		Psychiatry	Medical Statistics	4:00-5:00
	Anatomy	Physiology		Physiology	Anatomy	1:00-4:00
	Anatomy	Physiology		Physiology	Anatomy	8:00-12:00
SATURDAY	FRIDAY	THURSDAY	WEDNESDAY	TUESDAY	MONDAY	HOURS
Schedule of Courses	Scheu				g Semester	1st Year Spring Semester
		Dean's Hour		, and the same		4:00–5:00
	Biochemistry	Anatomy		Anatomy		2:00-4:00
				Psychiatry	Biochemistry	1:00-2:00
Anatomy	Biochemistry	Anatomy		Anatomy	Biochemistry	8:00–12:00
SATURDAY	FRIDAY	THURSDAY	WEDNESDAY	TUESDAY	MONDAY	HOURS
Schedule of Courses	21120				emester	1st Year Fall Semester

Elective time is unshaded.
 Most fresmen should take 4-5 elective hours each semester.

id Year Fa	nd Year Fall Semester				Sche	Schedule of Courses	
HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
8:00							
9:00	Pathology	Detholosy			Pathology		
10:00	andiogy	(Bolovia		Pathology			
11:00							
12:00	Buch	Apple 1			17-17-17		
1:00					Psychiatry		
2:00	Methods	V. Campbiology	and all	Microbiology	Microbiology		
3:00	Clinical	Micropropy			(Bologopiu)		

Clinical-pathological conferences will routinely be given in the Tuesday Student-Faculty Hour. Most sophomores should take 4–5 elective hours each semester.
 Clinical-pathological conferences will continue.

Dean's Hour

Student-Faculty

4:00

Science

SATURDAY			rnarmacology						
FRIDAY		The second second	Pharmacology		The part of the		Pharmacology		
THURSDAY	Radiology	d	rsycniany	Preventive Medicine		Mathods	Clinical		Dean's Hour
WEDNESDAY									STATE AND ADDRESS OF THE PARTY
TUESDAY	Methods in Clinical Science					Methods in Clinical Science Student-Faculty Hour			Student-Faculty Hour
MONDAY	Pharmacology					Methods in Clinical Science			
HOURS	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00

Elective time is unshaded. - 00

Most sophomores should take 4–5 elective hours each semester. Clinical-pathological conferences will routinely be given in the Tuesday Student-Faculty Hour.

3rd Year				11111	Sche	Schedule of Courses
HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00-12:00	Wards:	10 weeks, Medi Gynecology; 5 w	cine; 10 weeks, S veeks, Psychiatry;	urgery; 5 weeks, 2½ weeks, Neurol	Pediatrics; 5 weel ogy; 2½ weeks, 0	10 weeks, Medicine, 10 weeks, Surgery, 5 weeks, Pediatrics; 5 weeks, Obstetrics and Gynecology, 5 weeks, Psychiatry; 2½ weeks, Neurology; 2½ weeks, Orthopedic Surgery
1:00-4:00						
4:00 P.M.	34 hrs Surgery	OPC	20 hrs Medicine 20 hrs Pediatrics	Dean's Hour	12 hrs Med Law 11 hrs Anesthe- siology 11 hrs Ob-Gyn	
	6 hrs Neurology	Radio- biology			6 hrs Psychiatry	

Elective time is unshaded.
 Minimal elective hours = 0
 Clinical-pathological conferences will routinely be given in the Tuesday Student-Faculty Hour.

Rotation, in groups of one-sixteenth of class	4th 5 weeks	Surgery	Medicine		Neu Orth	Psychiatry	Ob-Gyn	Pediatrics
Rotatio	3rd 5 weeks	Surgery	Medicine		Psychiatry	Neu Orth Orth Neu	Pediatrics	Ob-Gyn
	2nd 5 weeks	Medicine	Neu Orth	Psychiatry	Ob-Gyn	Pediatrics	Surgery	
nalf)	1st 5 weeks	Medicine	Psychiatry	Neu Orth Orth Neu	Pediatrics	Ob-Gyn	Surgery	The State of the S
3rd Year (1st half)	STUDENT	-004	ro 00	7 8	01	11	13	15

STUDENT 5th 5 weeks GROUP 1	6th 5 weeks	7th 5 weeks	eks 8th 5 weeks  Neu Orth
Pediatrics	Ob-Gyn	Psychiatry	Orth
d	1	Neu Orth	
OB-GNH	rediancs	Orth Neu	Psychiatry
		Pediatrics	Ob-Gyn
Surgery	Surgery	Ob/Gyn	Pediatrics
Medicine	Medicine	Surgery	Surgery
O control of the cont	Neu Neu		
rsychiany	Orth Orth	Medicine	Medicine
Neu Orth	Doughiotes		
Orth	Sycinally		

Semester A. 18 weeks clerkship assignments. Semester B. 18 weeks clinic assignments.

- 1.1	3rd unit	000	444
SPRING SEMESTER	2nd unit	000	444
	1st unit	000	444
	3rd unit	444	888
FALL SEMESTER	2nd unit	444	888
	1st unit	444	888
	STUDENT GROUP		9 9

Semester A. Three academic units of clerkship assignments. Semester B. During one academic unit of the clinic semester, students are required to perform Emergency Room duty on a regularly assigned basis, except those students who have major ER experience at Nashville General Hospital as part of their clerkship in Medicine, Pediatrics, or Surgery



An important part of the educational experience is the opportunity for students to learn from each other in an informal setting.

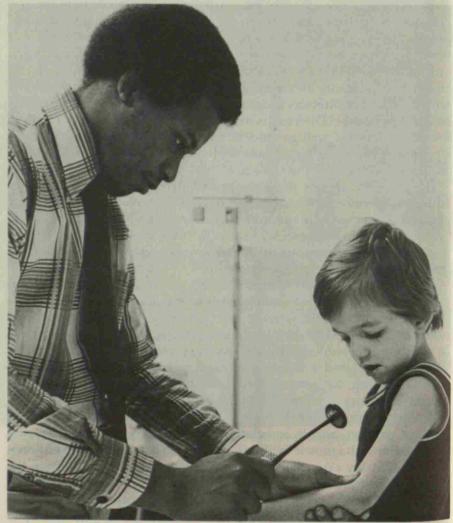
# Center for Health Services

HE Center for Health Services is a multidisciplinary entity with campus-wide student and faculty participation and representation. It was founded in 1971 for the purpose of encouraging and pursuing improvements in health care, primarily for underserved communities. "Health" is interpreted broadly to mean not only freedom from disease, but also the general well-being of an individual: social, political, economic, environmental, educational, and psychological. The projects and activities of the center are initiated and managed by cooperative action of students, community members, and faculty. The director works closely with the Board of Directors to determine and develop the programs of the center. The Board of Directors is designed to include representation from the community as well as student and faculty representatives of the University, including the schools of Medicine, Nursing, Law, Divinity, and Engineering, and the College of Arts & Science.

The center addresses the three functions of a university endeavor: education, service, and research. The outreach projects are directed by students and emphasize community-student education and community self-development, with faculty advice. In this way, an effective means is available for the community to utilize the resources of the University and

learn to develop self-sufficiency.

The Appalachian Student Health Coalition project provides organizing assistance to geographically isolated people in Appalachia so that those communities can develop the capacity to determine their own needs and acquire their own education, service, and research functions. In addition, the students conduct special projects at the request of the communities aimed toward other areas of community development, such as housing, day care, and environmental and legal issues. Another project, sponsored jointly with Meharry Medical College, offers similar assistance to rural populations in West Tennessee. The Urban Student Health Coalition, also in association with Meharry, provides physical examinations, diagnostic facilities, and health care delivery to children in Nashville day care centers which receive primary support from the Metropolitan Health Department and the UGF. In recognition that an individual's health is closely associated with many other factors, dental, nursing, social work, and special education students also provide help to the child. The students work in teams so that they can be concerned with the whole child and his family. 43 The curriculum component has been developed with full campus participation, and is designed around current issues of the health care delivery system. It includes courses sponsored jointly with other schools and departments of the University. Programs vary in terms of length and format, including full semester courses as well as workshops and seminars. Faculty is drawn from all areas of the University. At present, course offerings are non-credit and elective credit in certain departments.



Third-year student examines patient in the Comprehensive Developmental Evaluation Center as part of a summer fellowship.

# The M.D./Ph.D. Program

HE combined M.D./Ph.D. program is designed to develop teachers and investigators in the clinical and basic medical sciences. The program allows the student to study a basic biomedical science in depth and to do research in some phase of that subject while concurrently pursuing studies leading to the medical degree. This training will develop the skills and techniques necessary for an experimental approach to problems in basic and clinical medical sciences. The program is designed for students aspiring toward careers in academic medicine.

The M.D./Ph.D. program fully meets the Medical School requirements for the Doctor of Medicine degree and Vanderbilt Graduate School requirements for the Doctor of Philosophy degree. The combined degree program usually requires six to seven calendar years beyond the baccalaureate for completion. Although some saving of time is built into the program, there is no implication that the combined degree program circumvents, alters, or dilutes requirements for either the M.D. or the Ph.D. degree. The intent is to utilize optimally the strengths of each school.

# Admission to the Program

Applicants must apply to and be accepted by each school independently, before admission to the combined M.D./Ph.D. program can be considered. In the case of the Medical School, the regular application for admission is reviewed by the Medical School Committee on Admissions. To be accepted by and subsequently admitted to the Graduate School, the student must complete the standard Graduate School application which includes the designation of a major department. Selection of a graduate department is necessary to satisfy Graduate School requirements and to promote optimal guidance; however, students may change departments early in the program if desired.

Once admission to each school is obtained, the prospective student must apply for admission to the combined M.D./Ph.D. training program. This application should be sent to Dr. Daniel M. Buxbaum, Director of Educational Operations. The student's application is reviewed by the M.D./Ph.D. Committee, which selects and recommends to the Dean

those students qualified for admission to the joint program.

Students who have completed one or more years in medical or graduate school may apply for admission to the combined degree program following the above procedures.

#### Course of Study

Admission to the combined M.D./Ph.D. program provides the student with the option of joint or alternate registration in the graduate and medical schools. The student should work closely with a selected or assigned faculty adviser in all matters related to enrollment, registration, course selection, and scheduling. The usual course of study is divided into several phases. The first phase consists of the first two years of medical school which are devoted largely to the basic biomedical sciences. Most students enter the graduate school part of the program (Ph.D. studies) after the sophomore year of medical school. During this second phase the student meets Graduate School residency requirements. The student is encouraged to complete much, if not all, course work, research, and writing for the Ph.D. dissertation during this phase. The third phase consists of the clinical rotations of the junior year and the clinical clerkships of the senior year of medical school. A fourth phase may be necessary to complete research and dissertation. Students should refer to both the Medical and Graduate School catalogues for specific information on residency and course requirements, credits (hours) needed, examinations, research, and the writing of the dissertation.

Attention is called to the assignment of course credit toward the graduate school and/or medical school degree. In the department of the major, only the basic course may be allowed for credit toward the medical degree and the Ph.D. degree. All other approved courses will be allowed for credit toward either the Ph.D. degree or the M.D. degree, but not both. Certain Graduate School courses may be taken as part of the elective program in the Medical School and be applied toward formal course work requirements of the Ph.D. degree. The M.D./Ph.D. student must be officially enrolled in any one semester in both the Medical and Graduate Schools to "insure" appropriate assignment of credits.

Further post-graduate training beyond the M.D. and Ph.D. degrees depends on the student's career plan. The graduate who wishes to do basic research ordinarily undertakes a period of post-doctoral study and research. Graduates desiring further training in the environment of clinical medicine should complete an internship and residency training program in an area of clinical interest.

#### **Financial Support**

Special funding is possible, but only for those who have already gained admission to joint M.D./Ph.D. studies.

Students who wish financial support should so indicate on their initial individual application and on their application to the combined program. The limitations of financial support create a competitive situation in the selection process. In accepting financial support for the joint M.D./Ph.D. program, the student agrees that M.D./Ph.D. studies will be the principal effort and further agrees not to undertake concurrently any other gainful employment or effort without the formal approval of the committee and school officers responsible for the program.

In general, financial support is arranged by mutual agreement of the department chairman, the M.D./Ph.D. Committee, and the Dean of the Medical School. Various sources of funds are available with each having different application requirements, restrictions, obligations, and levels of support. Some potential sources for support available to the student are included in the following:

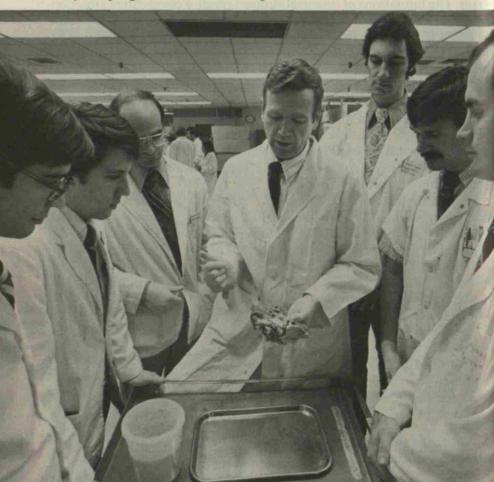
Vanderbilt Scholarship Program. This is a privately endowed scholarship ordinarily available to those students who have completed the second year of medical school. The scholarship pays tuition and fees, provides a stipend of \$2,500 a year plus \$500 per dependent, and \$500 per year to the sponsoring department for research-related expenses. Once awarded, financial support from this scholarship will continue at the above rates contingent upon satisfactory performance, until the M.D. degree is awarded.

National Research Service Award. Financial support is available through an institutional grant awarded to Vanderbilt Medical School by the National Institute of General Medical Sciences. The support pays tuition at the current level (1977/78), provides a stipend of \$3,900 per year, and includes funds for fees and related expenses. This support is assigned primarily to qualified incoming students. The students should consider special requirements, restrictions, and obligations that are associated with this source of financial support. As with all federal funding, support is guaranteed for only one year at a time since all federal funds are reviewed and funded annually. Generally, funds are renewed and support is continued.

Departmental Support. Limited resources are available at the departmental level. Some tuition remission fellowships are availables as well as some stipend support either from federal training grants or research funds. Interested students should request from their faculty

adviser or department chairman specific information on availability of this type of support.

Personal Support. Refers to the student's own resources or sources of funds. Approved students for the M.D./Ph.D. program who do not receive financial support from any of the above sources may remain in the joint program at their own expense.



Students examine diseased tissue in pathology laboratory.

# Academic Regulations

HE School of Medicine operates under the Honor System. All work submitted as a part of course requirements is presumed to be the product of the student submitting it unless credit is given in the manner prescribed by the course instructor. Cheating, plagiarizing, or otherwise falsifying results of study are prohibited. The student, by registration, acknowledges the authority of the Medical School Honor Council.

Students are expected to familiarize themselves with the *Graduate and Professional Student Handbook*, available at registration, which makes reference to the Honor Councils of the schools of the University, the Graduate Student Conduct Council, the Appellate Review Board, and related regulations.

#### Requirements for M.D. Degree

Candidates for the Doctor of Medicine degree must be mature and of good moral character. They must have spent at least four years of study or its equivalent as matriculated medical students at an acceptable medical school as judged by the Vanderbilt Medical Admissions Committee; the last two years must have been in this school. They must have completed satisfactorily the medical curriculum, have passed all prescribed examinations, and be free of indebtedness to the University. Students fulfilling these requirements will be recommended for the degree Doctor of Medicine.

#### Advisers

The Vanderbilt Medical School has one of the lowest attrition rates in the country. The faculty and administration take an active interest in assuring that each student achieves to maximum capability. Advisers, both student and faculty, and staff members of the office of the Dean are available to assist students toward successful development of their plans.

# The National Boards

All second-year students are required to take for credit Part I of the National Board Examinations in June following completion of second-

year studies, and all fourth-year students are required to take for credit Part II of the National Board Examinations in the fall or spring of the fourth year. Performance on National Board Examinations is significant to student promotion as one of several performance criteria considered by the Promotions Committee.

#### Certification in Basic Sciences

Many states now require examinations in the basic science subjects (anatomy, bacteriology, chemistry, pathology, and physiology). 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 achieve certification in the basic sciences as soon as possible. Successful completion of Part I of the National Boards serves to meet the basic science requirement in many states.

#### **Examinations and Promotions**

Successful completion of the courses of the medical curriculum and 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 may be held in conjunction with each course or at the end of each semester, by a committee composed of the instructors responsible for the student's more important courses. Promotion is considered by a committee of the faculty at the end of each academic year. The committee, on recommendation of the several departments, recommends to the Executive Faculty for promotion those students who have demonstrated personal, professional, and intellectual achievement consistent with faculty expectations for them at their particular stage of professional development. Students who are deficient in a major area or areas will be required to complete additional efforts satisfactorily in order to remedy deficiencies. Students who are deficient in a major undertaking or who demonstrate marginal performance in a major portion of their work may be denied further enrollment. Student academic performance is evaluated on the following levels: Superior, 88-100, Satisfactory, 75-87, Marginal, 70-74; Unsatisfactory, 69 and below.

Students who fail in two major courses 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 marginal quality. Students may be given credit for a subject by re-examination, but failures remain

on their record and may be counted as a cause for withdrawal if another failure in a major course occurs.

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

#### Extracurricular Work

The Medical School does not regulate the outside work of its students although it does take the firm position of discouraging outside work. No outside commitments may be assumed by medical students which obligate them in a way that can compromise their responsibilities at the Medical School. Students are encouraged to evaluate carefully their obligations outside the regular curriculum in order that their progress and work in Medical School will be in no way jeopardized. If the work is considered prejudicial the student may be required to discontinue it.

#### Leave of Absence

A leave of absence may be granted by the Dean for a period not to exceed one year for purposes of approved studies or for recuperation from illness. Should it be necessary for a student to be absent for a period of more than one calendar year, the student must make formal reapplication and be considered in the regular way by the Admissions Committee unless special action approving a more lengthy leave of absence is established by formal action through the Executive Faculty.

# Professional Liability Insurance

Professional liability insurance is required of all enrolled medical students, and students will be automatically covered with liability insurance at the time of registration. The annual premium is \$50, which is in addition to tuition. Details of the policy are available at the University insurance office, and students are encouraged to familiarize themselves with these details and with their responsibilities in this regard.



Conferences, classes, and patient demonstrations have been conducted in the medical school amphitheater since 1925.

# Lectureships



ALPHA OMEGA ALPHA LECTURE. The Alpha Omega Alpha Honor Medical Society each year invites a scientist of prominence to deliver a lecture before the students and 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 Vanderbilt University Hospital. As a fitting memorial to Dr. Brooks these lectures have been given by physicians who have made distinguished contributions in clinical or investigative surgery. The first Barney Brooks Memorial Lecture in Surgery was given during the spring of 1953.

LEONARD W. EDWARDS MEMORIAL LECTURESHIP IN SURGERY. This annual lectureship was established in 1972 by the family and friends of Dr. Leonard Edwards, who was professor of clinical surgery, in recognition of his more than fifty years of contributions to Vanderbilt and the Nashville community as a distinguished surgeon and teacher. The first lecture was given in 1972 by Dr. Lester Dragstedt. Lectures usually concentrate on surgery and physiopathology of the alimentary tract.

THE ABRAHAM FLEXNER LECTURESHIP. In the fall of 1927 Mr. Bernard Flexner of New York City gave \$50,000 to Vanderbilt University to establish 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 with a department of the School of Medicine. The first series of lectures was given in the fall of 1928.

THE ERNEST W. GOODPASTURE LECTURE. In 1968 the Goodpasture Lecture was established by a friend of Vanderbilt University and of the Department of Pathology, Mrs. George M. Green, Jr. The lecture is to honor the memory of Dr. Ernest William Goodpasture, distinguished chairman of the Department of Pathology from 1925 until his retirement in 1955. Each year a lecturer prominent for achievements in research or in medical education is selected. The first lecture was given in the fall of 1971.

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 School of Medicine. The first Pauline M. King Memorial Lecture was given in the spring of 1963.

M. GLENN KOENIG VISITING PROFESSORSHIP IN INFECTIOUS DISEASES. This visiting professorship was established in 1973 through the generosity of alumni, faculty, friends, and the family of the late Dr. M. Glenn Koenig who served as professor of medicine and head of the Division of Infectious Diseases. In recognition of Dr. Koenig's unexcelled ability to teach at the bedside, the Department of Medicine invites physicians of unusual competence in the leaching of clinical infectious diseases to join the Division of Infectious Diseases for short periods to spend time on the wards and in discussions with students, house staff, fellows, and faculty. The first visiting professorship was held in 1973.

PAUL DUDLEY LAMSON MEMORIAL LECTURE. This annual lectureship was instituted in 1965 in memory of Dr. Lamson who was professor of pharmacology and chairman of the Department of Pharmacology from 1925 until his retirement in 1952. A prominent pharmacologist is brought to the campus each year under the sponsorship of the alumni and staff of the Department of Pharmacology.

FRANK H. LUTON LECTURESHIP. Established in 1976 through the generosity of friends and former students, this lectureship honors Dr. Frank H. Luton, the first psychiatrist on the Vanderbilt faculty. Each year a prominent lecturer in the field of psychiatry is selected.

GLENN A. MILLIKAN MEMORIAL LECTURE. This lectureship was established in 1947 in memory of Dr. Millikan, professor of physiology, by members of the then second-year class. It has subsequently received support by means of a capital fund by Dr. Millikan's father and mother, Dr. Robert A. Millikan and Mrs. Gretna B. Millikan, and friends. Contributions have been made to the fund by members of the founding class and other students. The lectureship is maintained to provide a distinguished lecturer in physiology.

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 from 1935 through 1959. As a tribute to Dr. Morgan and his outstanding qualities as a superior clinician, the Department of Medicine invites a distinguished physician to spend one week in residence, during which time the physician assumes the teaching duties of the professor of medicine with students, house officers, and faculty. The first visiting professorship was awarded in 1959.

THE ELLIOTT NEWMAN VISITING LECTURESHIP. This lectureship was formally established by the Board of Trust of Vanderbilt University in 1977. Dr. Newman was a distinguished scientist and medical scholar, an outstanding clinician and teacher, and a loyal friend and faculty member of the School of Medicine for a period of twenty-one years.

WILLIAM F. ORR LECTURESHIP. This annual lectureship was established in 1976 through the generosity of Hoffman-LaRoche, Inc., in honor of Dr. William F. Orr, first professor and chairman of the Department of Psychiatry, a position he held from 1947–69. A psychiatrist of national prominence is invited each year to present the lecture and to participate in various teaching conferences in the Department of Psychiatry.

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 Phi Chi fraternity. Each year a lecturer of prominence is selected. The first lecture was given in 1950.

THE RHAMY-SHELLEY LECTURE. This annual lectureship was established in 1972 through efforts of former residents in urology at Vanderbilt University Medical Center. It honors both the present chairman of the Division of Urology, Dr. Robert K. Rhamy, and the former chief of the Division of Urology at the Nashville Veterans Administration Hospital, Dr. Harry S. Shelley. An outstanding urologist, from either the United States or abroad, is invited to spend four or five days as visiting professor in the Division of Urology, to join with former residents and other urologists in demonstrations of surgical technique and diagnostic acumen, as well as in a series of formal lectures.

THE CHARLES J. THUSS, SR., AND GERTRUDE NOBLE THUSS LECTURESHIP IN PLASTIC AND RECONSTRUCTIVE SURGERY. This lectureship was established in 1977 by Dr. Charles J. Thuss, Jr., Medical Class of 1961, of San Antonio, Texas, in honor of his parents. The lectureship is funded in collaboration with the Department of Plastic Surgery for the purpose of bringing distinguished lecturers in the field of plastic and reconstructive surgery to the Vanderbilt campus.

# Honors and Awards



# Alpha Omega Alpha

A chapter of this medical honor society was established by charter in the School of Medicine in 1923. Not more than one-eighth of the students of the fourth-year class are eligible for membership and only one-half of the number of eligible students may be elected to membership during the last half of their third year. The society has for its purpose the development of high standards of personal conduct and scholarship and the encouragement of medical research. Students are elected into membership on the basis of their scholarship, character, and originality.

#### Founder's Medal

This medal is awarded to the student in the graduating class of the School of Medicine who in the judgment of the Executive Faculty has achieved the strongest record in the several areas of personal, professional, and academic performance in meeting the requirements for the Doctor of Medicine degree during four years of study at Vanderbilt.

#### Other Prizes and Awards

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 in Nashville, is awarded to the student showing the greatest progress in neurology and psychiatry and who is otherwise worthy and deserving.

AMOS CHRISTIE AWARD IN PEDIATRICS. Established in 1970 by an anonymous donor, this award provides \$250 to the student in the graduating class who has demonstrated the outstanding qualities of scholarship and humanity embodied in the ideal pediatrician. The award honors Dr. Amos Christie, professor of pediatrics, emeritus, who was chairman of the Department of Pediatrics from 1943 to 1968.

DEAN'S AWARD. This award is presented by the Dean to students who have distinguished themselves by their outstanding contribution of leadership and service throughout four years of study.

HOSPITAL AWARD FOR EXCELLENCE. This award recognizes the senior medical student selected by the chief residents of all the services as having made the largest personal contribution toward quality patient care by demonstrating sensitivity, compassion, and concern in his or her clinical responsibilities to patients.

RUDOLPH H. KAMPMEIER PRIZE IN CLINICAL MEDICINE. An annual award of \$1,000, presented through the generosity of the Southern Medical Association, is made to the student who, at the completion of the third year of training, is judged by the faculty of the Department of Medicine to have exhibited the qualities of the excellent physician as

exemplified by Dr. Rudolph H. Kampmeier throughout his career. The qualifications to be given greatest weight will be proficiency in diagnosis and therapy; consideration of the patient as a complete person with a life that is more than that of a "sick patient"; ability to think with originality and to teach, lead, and inspire others; willingness to devote himself herself unstintingly to the welfare of others; and ability to work effectively with other members of the medical and paramedical professions.

JOHN L. SHAPIRO AWARD FOR EXCELLENCE IN PATHOLOGY. This award, given upon action of the Department of Pathology, recognizes outstanding student performance in pathology. It is given annually or otherwise depending upon action by the department.

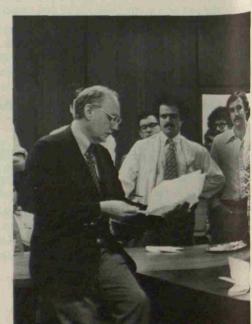
SURGICAL CLERKSHIP AWARD. This award is presented annually by the section of surgical sciences to a student who has had a superior performance in the third-year surgical clerkship and who plans to enter graduate education in surgery. The award includes an expense-paid attendance at the annual meeting of a national surgical society.

UPJOHN AWARD. This award is given each year to a medical student in the graduating class who is distinguished by an outstanding record throughout medical education from the several standpoints of scholastic, personal, and professional achievement, as well as performance as a member of the Vanderbilt community. The Upjohn Award is provided through the interest and generosity of the Upjohn Pharmaceutical Company.

ALBERT WEINSTEIN PRIZES IN MEDICINE. Three prizes established in memory of Albert Weinstein, M.D., are awarded at graduation to senior students who, in the opinion of the faculty of the Department of Medicine, merit recognition for high scholastic attainment and the qualities which characterize the fine physician.

Dr. Albert Weinstein was graduated from Vanderbilt University in 1926 and as founder's medalist from Vanderbilt School of Medicine in 1929. Following training at Vanderbilt and Johns Hopkins he returned to Vanderbilt as chief resident in medicine, 1933–1935, and served as a distinguished member of the faculty and clinical professor of medicine until his death on 1 October 1963. Despite a busy and successful practice, Dr. Weinstein contributed regularly to the medical literature and maintained a major interest in the teaching of medical students. These prizes were established in 1964 by contributions from friends, associates, and former patients of Dr. Weinstein.

Dean Chapman meets with senior students to announce results of the National Internship and Residency Matching Program.



# Life at Vanderbilt

HE University provides accommodation for as many graduate and professional students as possible. Housing is limited, however, and many new students must seek accommodation off campus.

Medical students living on campus are housed in apartments. Married students with small children will find the housing convenient. Single students are expected to share apartments and can realize savings by

sharing expenses of both room and board.

Apartments for graduate and professional students are available twelve months of the year to accommodate those who pursue studies and research when the schools of the University are not in session.

# University Housing Facilities

Lewis and Morgan houses are eleven-story buildings, each with efficiency and one- and two-bedroom apartments, furnished and unfurnished. Included in all apartments are electric range, refrigerator, sink with disposal, kitchen cabinets with formica counter tops, and draperies. About a third of the one- and two-bedroom units are furnished with sofa, desk-bookcase, dining table and four chairs, lounge chair, end table, bed(s), dresser, and night stand. No lamps are provided. The second bedroom in the two-bedroom furnished apartments is left empty for the tenant to equip according to individual needs.

The buildings are centrally air conditioned with individual controls in each apartment. Laundry rooms, storage rooms, lounge, indoor playroom, and a fine new outdoor playground are provided. Rent includes electricity, hot and cold water, heat, and air conditioning. Tele-

phone service is arranged by the occupant.

Oxford House, located near the Medical Center, contains furnished and unfurnished efficiency and one-bedroom apartments. All units are equipped with electric range, refrigerator, natural wood cabinets with formica counter tops, and venetian blinds. The furniture in furnished units is basically the same as in Morgan and Lewis. Since no arrangements are made for children, these apartments are normally assigned to married students without children or to single graduate students. Rent includes electricity, hot and cold water, heat, and air conditioning. Telephone service is arranged by the occupant.

The Highland-Forde apartments, constructed shortly after World War II, are two-bedroom furnished units with small lawn and porch. Of concrete block construction, these apartments are not air conditioned and are heated with a space heater. Because of the slightly lower rent and the appeal to students with families, there is normally a waiting list for Highland-Forde apartments.

# Policies and Procedures for On-Campus Housing

The apartments in Morgan, Lewis, Oxford, and Highland-Forde are leased for the entire academic year. The resident must be a full-time student at Vanderbilt to be eligible for housing in these facilities. Should the occupant of an apartment cease to be a student, the apartment must be vacated within five days.

Occupancy of University housing is subject to the terms and conditions of a lease executed by the occupant.

Limited housing on campus for graduate and professional students requires an early deposit of \$50 to reserve an apartment. Requests for refund of the deposit will be considered if the request is received in writing by 1 July. All housing inquiries should be directed to: Housing Division, Box 1677, Station B, Nashville, Tennessee 37235.

### **University Food Services**

There are four principal dining facilities on campus: Rand Dining Hall, Branscomb Dining Hall, the Divinity Refectory, and the Commodore Room Snack Bar. A liberal board plan which offers interchangeable dining and selection of meals may be contracted for by the semester at \$228 for approximately 50 percent of all meals offered exclusive of holidays or recess periods. Supplements of 10 percent for \$45.60 may be purchased on request and charged to the student's account.

#### Student Health Service

The Student Health Service staff of three internists, a psychiatrist, and two nurse practitioners maintain full medical and psychiatric services and counseling. All Vanderbilt students are eligible to use the Student Health Service.

A computerized health history questionnaire will be mailed to each student on acceptance. This is to be filled out and mailed in the preaddressed envelope, along with a check for \$9. The completed questionnaire is required of all new students prior to registration.

For the protection of themselves and others against communicable diseases, all new medical students receive chest x-rays and tuberculin skin tests during their orientation. All new students are required to have had tetanus toxoid immunization within ten years, and current polio immunization.

The University operates the Health Service and Infirmary for students with mild illnesses. For major illnesses 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. A student identification card must be presented.

The Health Service has the policy of maintaining complete health records on all students. Students admitted to a hospital, seen in an emergency room, or seen by a private physician, should request that their physician forward a summary of the illness and treatment to the Health Service.

The University reserves the right in its discretion to require the withdrawal of a student for physical or emotional reasons. Students withdrawn under such circumstances may be readmitted upon demonstration that the condition requiring withdrawal has been corrected.

#### Student Insurance Plan

All students at Vanderbilt are required to have adequate hospitalization insurance coverage, and all students who register before 1 September will automatically be covered with hospital insurance at the time of their registration. Late registering students must make individual application to be insured. The annual premium will be \$86.50, which is in addition to tuition. Coverage extends from 21 August until 20 August of the following year, whether a student remains in school or is away from the University. This plan is designed to provide liberal hospital, surgical, and in-hospital medical care benefits; students are supplied with a brochure which explains the limits and exclusions of insurance coverage as well as the benefits. A student who does not wish to subscribe to the University's insurance plan must notify the University of adequate coverage under another policy; a special form for this purpose should be Obtained from the Office of Student Services. It must be submitted before 1 September for fall semester or before 1 January for spring semester new enrollees. Married students who wish to provide hospital insurance for their families must apply and pay an additional premium.

All inquiries as to details should be directed to Blue Cross–Blue Shield of Tennessee, 502 James Robertson Parkway, Nashville, Tennessee

37219. Telephone (615) 242-4346.

#### **Psychological and Counseling Center**

The Interuniversity Psychological and Counseling Center offers comprehensive psychological services to Vanderbilt students. It is staffed by psychologists and is located on the third floor of Oxford House at the corner of 21st Avenue South and Dixie Place.

Included in the services offered are individual and group counseling and psychotherapy, marital counseling, and educational and career counseling. A Reading Improvement and Study Skills Program is offered by the center; there is a \$40 fee for this program.

Appointments may be made by visiting the center or by calling 322-

2571.

#### **Athletic Facilities**

Vanderbilt Memorial Gymnasium may be used by medical students and their families. Facilities include an enclosed heated swimming pool.

Women's teams compete in tennis, basketball, swimming, and track. Men's teams compete in the Southeastern Conference in football, basketball, swimming, baseball, golf, tennis, and cross-country. Tickets to Vanderbilt basketball and football games may be purchased at reduced rates.

### **Campus Security**

The Department of Security and Safety has as its highest priority the safety of students. The department maintains a full-time staff of welltrained commissioned security officers, with several recent graduates on the force, augmented by student security officers. A large corps of security Reeves, most of them students on four-hour shifts, around the clock in certain residential areas, provides security for the residence halls themselves.

#### Vehicles

Parking space on campus is severely limited.

Student cars, motor bikes, and bicycles must be registered with the Department of Security and Safety. Depending on their class and residence, students will be assigned to specific areas of the campus for parking purposes, but all are urged to secure off-campus parking whenever possible.

Traffic violations which occur on the campus subject the violator to

monetary fine and may result in further disciplinary action.

# Financial Information

HE minimum annual expense of a student in the School of Medicine, exclusive of clothes and incidentals but including living accommodations, is estimated as approximately \$6,500.

#### **Tuition and Fees**

Tuition (1978/79 academic year)	\$4,100
Application fee (to accompany final application)	25
Diploma fee (charged to graduating students)	10
Student activities fee (Sarratt Center)	14
Microscope usage fee	85
Hospitalization insurance	87
Health history questionnaire	9
Professional liability insurance (see page 51)	50

Rates for tuition and fees are subject to review and change.

First-year medical students who are also three-year students in the College of Arts & Science are required by the College to pay a \$60 fee.

All regularly enrolled medical students must pay the full tuition each year. There will be no exception to this requirement. Graduate students who enroll in courses in the medical curriculum for credit toward an academic degree and who later become candidates for the Doctor of Medicine degree may be required to pay the full tuition as indicated above. Students who withdraw officially or who are dismissed from the University for any reason after the beginning of a term may be entitled to a partial refund in accordance with a schedule available in the office of Student Accounts. No refund will be made after the eighth week in any semester.

Tuition, fees, and other University charges are due and payable not later than thirty days after the date of billing. An arrearage in tuition must be paid before grades are posted to the student's record.

# Microscopes, Books, and Equipment

First-year and second-year students are provided microscopes by the University. The usage fee for this service is included in the tuition and fee schedule and is required of all students in these classes.

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All students must have clean white laboratory coats. In their second year students must acquire hemocytometers and ophthalmoscopes.

The minimum cost of books is approximately \$200–300 per year. Purchases made at the Vanderbilt Book Store are on a cash basis.

#### **Education Records**

Vanderbilt University is subject to the provisions of federal law known as the Family Educational Rights and Privacy Act (the Buckley Amendment), affording to students rights of access to education records and imposing obligations on the University in the release and dislosure of those records to third parties.

In order to comply with federal regulations promulgated pursuant to the Buckley Amendment, Vanderbilt University has formulated and adopted institutional policies and procedures to be followed by the University and by others with regard to the disclosure of information from the education records of current and former students. Copies of these policies can be obtained by students who are or have been in attendance at Vanderbilt University from the University Registrar, 316 Kirkland Hall. The federal regulations will also be available for inspection by students.

For purposes of the Buckley Amendment, Vanderbilt University has designated the following information as "directory information" and may make such information available to any person without the student's consent unless the student gives notice as provided for below: the student's name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, the most recent previous education agency or institution attended by the student, and other similar information. Any student who does not wish disclosure of directory information should notify the University Registrar in writing, specifying the type or types of directory information to be withheld. Such notification must be given within a reasonable period of time after the completion of the student's first registration of the academic year.

If a student believes that the University has failed to comply with the Buckley Amendment and does not wish to utilize the grievance procedure set forth in the University policies and procedures to resolve a grievance, or is dissatisfied with the outcome of such procedure, the student can file a written complaint with the Family Educational Rights and Privacy Act Office, Department of Health, Education and Welfare, 330 Independence Avenue, S.W., Washington, D.C. 20201

# Honor Scholarships

JUSTIN POTTER MEDICAL SCHOLARSHIPS. The Justin Potter Medical 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 School of Medicine and the Justin Potter Medical Scholarship Committee. They are awarded annually to 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, or Virginia. Children of Vanderbilt University faculty are not eligible for consideration for a Justin Potter Medical Scholarship.

Stipends of \$5,000 annually are awarded to each of the five successful candidates and, once awarded, continue at this rate for four years contingent upon satisfactory performance.

The method of selection of Justin Potter Scholars is as follows: the Committee on Admissions of Vanderbilt School of Medicine recommends to the Justin Potter Medical Scholarship Committee candidates who desire this scholarship, merit consideration, and have received an official invitation to attend Vanderbilt. 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 Medical Scholars."

## Financial Assistance

Education leading to the Doctor of Medicine degree requires a careful consideration of financial commitment by the prospective student. Thus, financial planning to meet subsistence and educational costs is an important part of the student's preparation for medical school.

Limited scholarships, fellowships, loans, and financial aid awards are available at Vanderbilt. Loans and scholarships through Vanderbilt financial aid awards are made solely on the basis of demonstrated financial need to meet costs basic to the student's subsistence and educational program which cannot be met by personal resources.

It should be emphasized that financial aid from school sources must be considered a supplement to personal resources rather than the primary source of funds necessary to attend school. Present financial aid pro-

grams are not fully meeting students' financial aid requests and demonstrated need. Favorable consideration for assistance is based upon an acceptable application and budgetary statement together with the availability of funds. The school's ability to fund approved requests for financial aid depends upon adequate annual federal funding of the Health Professions Financial Aid Program, or related programs of federal subsidy, and the magnitude of gifts for financial aid from alumni and friends of the Medical School. Recent experience has been that most but not all approved financial aid requests have been met for items basic to the student's subsistence and education from a combination of sources including the student's personal assets, school sources, and others.

Financial aid for medical students is not limited to those funds available through the Medical School. A prominent and important source is the Guaranteed Student Loan program of the federal government Office of Education and related programs of federal or state funding. The Office of Education and other government agencies sponsor a loan program which may enable medical students to borrow money directly from savings and loan associations, credit unions, banks, or other participating lenders. The general outline for this program was established by federal law, but each state administers the program according to a slightly different procedure. Medical students may borrow a maximum of \$5,000 per year in most states. If the adjusted family income of the medical student is under \$25,000, the federal government will pay interest charged on this loan while the student is attending school and prior to the beginning of the repayment period. Financial aid from this source is best approached by students through their home town bank inasmuch as this is a bank-to-student loan, with the federal government guaranteeing the loan and the medical school certifying the applicant borrower is an accepted or enrolled medical student.

Another prominent or potential source of financial aid beyond that available directly from the Medical School is the American Medical Association's guaranteed loan program. A medical student may borrow a maximum of \$1,500 per year from this program after satisfactory completion of one semester of medical studies. The American Medical Association underwrites the guarantee on this program to the lending bank. Present indication is that the Guaranteed Student Loan program will become a more prominent source of financial aid for medical students as the more direct Health Professions Financial Aid Program supported by the government becomes less prominent. Students who are in need of substantial financial aid would be well advised to consult their home town banker at an early date concerning financial aid through the federally guaranteed Higher Education Act Program. Other financial aid programs are administered through the offices of the various armed services as well as the Public Health Service.

Students in need of financial aid are encouraged to consider carefully the problems related to receiving aid through funds which require service as part of the repayment. Several of these plans place the student at some disadvantage in the event of a change in career plans. Students considering financial aid from a source which carries an obligation for service as repayment are encouraged to consult the medical school prior to entering into any contracts of this nature.

The Vanderbilt student is assured that the school will do its best to find or recommend sources sufficient to meet demonstrated financial needs basic to subsistence and education during the period of enrollment. Students must also recognize their own responsibility to fund a major portion of the cost of attending medical school, making application for aid from school sources only when other aid is unavailable. It may be necessary to utilize a combination of financial aid resources from both school and nonschool sources to meet acceptable budgets. Financial aid is subject to application and review annually and is awarded on the basis of demonstrated financial need, as this relates to the availability of funds.

Students desiring more specific information about financial aid resources should write to the Director of Student Services.

#### Scholarships

The School of Medicine has a number of scholarships available to worthy applicants with distinguished scholastic records. Information and application forms may be obtained from the Director of Student Services.

THE HERBERT ESKIND MEMORIAL FUND. This scholarship honoring the memory of Mr. Herbert Eskind was established by members of his family. It is awarded each year by the Division of Nutrition, to one or more medical students on the basis of demonstrated financial need, and provides each recipient with a minimum scholarship of \$750. It is anticipated that this fund will be supplemented to meet the needs of increasing numbers of medical students.

THE WILLIAM N. PEARSON SCHOLARSHIP AWARD. This scholarship for studies in nutrition has been established by colleagues and friends throughout the world in memory of Dr. William N. Pearson, whose untimely death in an automobile accident occurred on Thanksgiving Day 1968. In keeping with Dr. Pearson's concern for international nutrition training, priority is given first to foreign student candidates, and second to students, citizens of the United States, who propose to work in the international area.

THE JOHN SHAPIRO SCHOLARSHIP FUND. This scholarship fund is provided by a member of the Class of 1958 in honor of Dr. Shapiro, who contributed so materially to the education of students of medicine at Vanderbilt both before, during, and after the Class of 1958. The scholarship is given on recommendation of the Dean of the School of Medicine, on the basis of qualification and need as judged by the Dean.

THE FRED C. WATSON MEMORIAL SCHOLARSHIP. This scholarship is made on the recommendation of the Medical School to students selected by a committee based in Lexington, Tennessee, to students who are graduates of Lexington High School and are residents of Henderson County.

#### Student Research Fellowships

Student research under the sponsorship of members of the faculty of the preclinical and clinical departments is endorsed as an important part of the elective medical curriculum. Stipends vary from \$1,000 to \$1,500 for the summer programs, depending upon experience. Limited funds for fellowship support are available through the Special Student Programs-Fellowships and Merit Awards Committee on a competitive basis and from individual departments within the Medical School. Funds are provided from a variety of sources, including the United States Public Health Service and various private foundations and healthinterested organizations such as the Middle Tennessee Heart Association. Research projects may be taken as electives for credit but without remuneration. Special arrangements can be made for participation in research programs abroad or in other medical schools in the United States. Individual departments or faculty members may also support student research experiences. Funds from all sources are becoming more difficult to obtain, but remain available, though limited.

### **Revolving Loans**

ALPHA KAPPA KAPPA ALUMNI ASSOCIATION FUND. These funds are made available to students through contributions from alumni of the Alpha Kappa Kappa medical fraternity.

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

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

THE IKE J. KUHN FUND. This revolving loan is provided by a bequest from the will of Mr. Ike J. Kuhn, and is awarded in the School of Medicine to a worthy man or woman born and reared in any of the states commonly known as the "southern states."

LIFE & CASUALTY INSURANCE COMPANY 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 L. MADDIN, M.D., FUND. This fund is provided by a bequest from the will of Mrs. Sallie A. C. Watkins in memory of Dr. Thomas L. Maddin to be used by some worthy medical student at Vanderbilt.

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 other residents of Tennessee to be given second preference.

ROBERT E. SULLIVAN MEMORIAL FUND. Through the generosity of Robert E. Sullivan a fund has been established to assist worthy and deserving medical students in meeting their financial obligations.

THE THOMAS W. RHODES FELLOWSHIP. Funds 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 STUDENT SCHOLARSHIP FUND. This fund is to be used as a scholarship fund for students in the School of Medicine from middle Tennessee.

THE JOE AND HOWARD WERTHAN FOUNDATION FUND. The funds made available by this foundation to Vanderbilt University are to be given or loaned to those students in the School of Medicine needing financial assistance.

ROANE-ANDERSON COUNTY MEDICAL SOCIETY FUND. The amount of \$500 is allocated in the form of a revolving loan to a needy medical student, with preference being given to students from Roane, Anderson, and Morgan Counties of Tennessee where possible.

J. F. FOX SCHOLARSHIP IN MEDICINE. This fund was established in memory of Dr. J. F. Fox, a Vanderbilt graduate, and provides for annual assistance to students in the School of Medicine as a revolving loan fund based on scholarship, promise, and financial need.

THE HEALTH PROFESSIONS STUDENT LOAN PROGRAM The Health Professions Educational Assistance Act of 1963 authorizes the establishment of student loan funds to be administered by the School of Medicine. Federal regulations regarding this program are in transition; information is available from the Office of Student Services in the School of Medicine.

THE HEALTH PROFESSIONS SCHOLARSHIP PROGRAM. This program is designed to enable talented students from low income families to undertake the study of medicine. Federal regulations regarding the scholarship program are in transition; students may seek information from the Office of Student Services.

THE VANDERBILT MEDICAL EDUCATION FUND. This fund, derived from the donations of friends and alumni, provides significant help by making loans to qualified students within the funds available. Information regarding the fund is available from the Office of Student Services.

# **Employment Opportunities for Spouses**

Nashville is a middle-sized city (500,000) affording employment opportunities common to an industrial, business, and educational center. Major employers include Vanderbilt University, two national insurance companies, and the state government. Every attempt is made to find a Position within the University for spouses of students. If interested in a Position on the University campus, student spouses should make in-quiry at the Vanderbilt Employment Center.



A faculty member in biochemistry works with students on a laboratory experiment.

# Advanced Training and Research

HE primary responsibility of the School of Medicine is education of medical students. In addition, there are active programs for graduate students in the preclinical sciences, for postdoctoral interns and residents, and for postdoctoral research trainees.

## Internship and Residency Training

Students preparing for the practice of medicine usually spend one or more years in house staff training. Such experiences at Vanderbilt are particularly varied and well supervised. Applicants for positions are carefully chosen, and make up a competent and stimulating group which has considerable responsibility in medical student teaching.

The faculty of the School of Medicine has professional responsibilities in Vanderbilt, Veterans, St. Thomas, Baptist, and Nashville General hospitals. Most patients in these hospitals are cared for by members of

the intern and resident staff.

Vanderbilt University Hospital is a referral center and consequently has a patient population with complex medical and surgical problems. Nashville General Hospital is a community-owned facility in which many of the patients present advanced manifestations of disease. Veterans Administration Hospital is adjacent to the Vanderbilt Medical Center, and is extensively used for student and house staff teaching.

## Residencies and Fellowships

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. 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.

## Postdoctoral Courses

Continuing Education

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

Continuing Education and the chairman 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 the Director of Continuing Education.

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

#### Post-Residency Fellowships

Post-doctoral courses are available that have as their goal the training of physicians for practice and certification in a medical subspecialty. Fellows admitted to this program must have completed some part of an approved residency program. The fellow is expected to participate in departmental activities related to teaching, clinical services, and research.

#### Courses Toward Master's and Ph.D. Degrees

Candidates for the degree of Master of Science or 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 Registrar of the Graduate School.

Candidates for the degree of Master of Science in hearing and speech sciences 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 Graduate School. Candidates should apply to the Registrar of the Graduate School.

# **Endowed Research Chairs**

THE JAMES G. BLAKEMORE CHAIR IN PSYCHIATRY. Through the generosity of James G. Blakemore, Nashville businessman and Vanderbilt alumnus, this professorship in psychiatry was endowed in 1973 to support a distinguished faculty member in the Department of Psychiatry, providing freedom to contribute to research and teaching within a specific field of excellence.

THE LUCIUS E. BURCH CHAIR OF REPRODUCTIVE PHYSIOLOGY & FAMILY PLAN-NING. In December of 1967, the Department of Obstetrics & Gynecology received funds, through the generosity of an anonymous donor, to establish this professorship, the purpose of which is to further research in basic reproductive biology, and applied family planning. The chair is named for Dr. Lucius E. Burch, dean of the School of Medicine from 1913 until 1920, and chairman of the Department of Obstetrics & Gynecology until his retirement in 1945.

JOHN CLINTON FOSHEE DISTINGUISHED PROFESSORSHIP OF SURGERY. Through the generosity of the late Dr. John C. Foshee, graduate of Vanderbilt University School of Medicine in 1916, distinguished surgeon of Grand Rapids, Michigan, and former president of the Vanderbilt Medical Alumni, this professorship was established in 1976 and will be funded for the purpose of furthering medical education and research in the field of general surgery.

ERNEST W. GOODPASTURE CHAIR IN EXPERIMENTAL PATHOLOGY. In recognition of Ernest W. Goodpasture, this chair is currently being established to enhance basic investigative efforts in Experimental Pathology.

GEORGE W. HALE PROFESSORSHIP IN OPHTHALMOLOGY. Through the generosity of Virginia McHenry Hale, this professorship was established in 1960 for the advancement of Opthalmology.

THE PAUL W. SANGER CHAIR OF EXPERIMENTAL SURGERY. Through the generosity of the late Dr. Paul W. Sanger, graduate in Vanderbilt Medical School's class of 1931, distinguished surgeon of Charlotte, North Carolina, and former president of the Vanderbilt Medical Alumni, this professorship was established in 1969 and funded in collaboration with the Department of Surgery for the purpose of furthering research in surgical biology and in the general field of surgery.

THE ADDISON B. SCOVILLE, JR., CHAIR FOR DIABETES AND METABOLISM. Through the generosity of the Justin and Valere Potter Foundation of Nashville, this professorship was established in 1973 for the purpose of furthering research in the field of diabetes and metabolism.

THE ANN GEDDES STAHLMAN CHAIR IN MEDICAL ETHICS. The broad objective in establishing the Ann Geddes Stahlman Chair in Medical Ethics is to contribute to the return of humanism to the practice of medicine. Individuals who are to hold this Chair may by background and training be non-demoninational theological scholars, ethics scholars, philosophy scholars, scholars in the law, or members of the teaching faculty of a school of medicine.

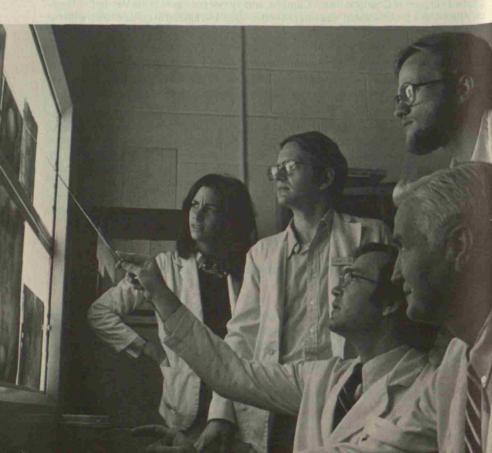
THE GLADYS PARKINSON STAHLMAN CHAIR IN CARDIOVASCULAR RE-SEARCH. Through the generosity of Mr. James C. Stahlman this professorship was established in 1973 for the purpose of engaging in cardiovascular research with primary emphasis in the areas of etiology prevention and treatment.

THE MILDRED THORNTON STAHLMAN CHAIR IN PERINATOLOGY. The generosity of Mr. James C. Stahlman established this professorship in perinatology. The chair to be established in this new field of medical research will reinforce this program over an indefinite period of time.

THE MARY GEDDES STAHLMAN CHAIR IN CANCER RESEARCH. Through the generosity of Mr. James C. Stahlman, this professorship was established in 1972 for the purpose of furthering studies in cancer research. The professorship provides funds to help establish Vanderbilt as a national center for cancer research.

EDWARD CLAIBORNE STAHLMAN CHAIR IN PEDIATRIC PHYSIOLOGY AND CELL METABOLISM. This professorship was established in 1972 by Mr. James C. Stahlman for studies in pediatric physiology and cell metabolism.

THE JOE AND MORRIS WERTHAN CHAIR OF INVESTIGATIVE 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.



#### **Endowed Research Funds**

THE RACHEL 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 the fund is to be used for education in the field of tuberculosis.

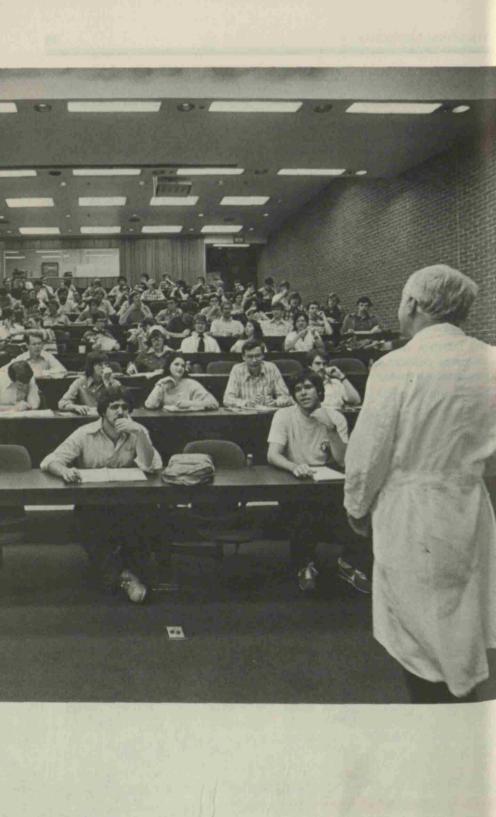
THE BROWNLEE O. CURRY MEMORIAL FUND FOR RESEARCH IN HEMATOLOGY. A memorial fund created by the friends of Brownlee O. Curry, the income from which is being used for the support of research in the field of hematology.

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 field of neurosurgery. It is hoped that subsequent donations will 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 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.



# Courses of Study



### School of Medicine Departments

Anatomy Anesthesiology Biochemistry Hearing & Speech Sciences Medical Administration Medicine Dermatology Microbiology Neurology Obstetrics & Gynecology Ophthalmology Orthopedics & Rehabilitation Pathology Pediatrics Pharmacology Physiology Preventive Medicine & Public Health **Biostatistics** Psychiatry Human Behavior Radiology and Radiological Sciences

#### SURGICAL SCIENCES

Surgery
Dentistry
Neurosurgery
Oral Surgery
Otolaryngology
Pediatric Surgery
Plastic Surgery
Thoracic & Cardiac Surgery
Urology

### Anatomy

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

ALVIN M. BURT III, Ph.D., Professor of Anatomy

VIRGIL S. LeQUIRE, M.D., Professor of Experimental Pathology; Professor of Anatomy MARIE-CLAIRE ORGEBIN-CRIST, Ph.D., Lucius E. Burch Professor of Reproductive Biology & Family Planning; Professor of Anatomy; Director of the Center for Population Research

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

R. BENTON ADKINS, JR. M.D., Associate Professor of Surgery; Associate Professor of Anatomy

G. RODMAN DAVENPORT, Ph.D., Associate Professor of Anatomy

JOHN A. FREEMAN, M.D., Ph.D., Associate Professor of Anatomy; Associate Professor of Ophthalmology

LOREN H. HOFFMAN, Ph.D., Associate Professor of Anatomy

JON H. KAAS, Ph.D., Associate Professor of Psychology; Associate Professor of Anatomy RONALD E. ROSENTHAL, M.D., Associate Professor of Orthopedics & Rehabilitation; Associate Professor of Anatomy

LUCILLE H. AULSEBROOK, Ph.D., Associate Professor of Anatomy in Nursing, School of Nursing; Assistant Professor of Anatomy

VIVIEN CASAGRANDE, Ph.D., Assistant Professor of Anatomy; Assistant Professor of Psychology

JAMES A. McKANNA, Ph.D., Assistant Professor of Anatomy GARY E. OLSON, Ph.D., Assistant Professor of Anatomy JEANETTE NORDEN, Ph.D., Research Associate in Anatomy MARCIA RUSSELL, Ph.D., Research Associate in Anatomy ROBERT SELLERS, B.A., Research Associate in Anatomy

THE Department of Anatomy is responsible for instruction in histology, gross anatomy, and the human nervous system as part of the required curriculum for first-year medical students. Elective courses are offered by the department in areas of reproductive biology, advanced neurology, medical ethics, surgical anatomy, and neurochemistry.

#### **Required Courses**

**501. Histology.** This course is designed to give the student a familiarity with the normal microscopic anatomy of tissues and organs of the human body. Emphasis is placed on the correlates between structure and function at both the light and electron microscopic levels so as to serve as a basis for understanding the physiological and biochemical activity of cells and tissues. SPRING. *Dr. Davenport and Dr. Hoffman.* 

**502. Gross Anatomy.** The course is devoted to a systematic dissection of the human body. This is supplemented by lectures and demonstrations. The emphasis is on the function and clinical relevance of the

anatomical structures. Saturday morning lectures are concerned with the embryological basis of the anatomical structures and emphasize the problem of congenital abnormalities. FALL. *Dr. Davies and Staff.* 

503. The Nervous System. A basic course with emphasis on a systematic study of anatomy, physiology, and chemistry of the human nervous system. Clinical material is utilized, where appropriate, to emphasize the basic anatomy and physiology. Four hours of lecture and four hours of laboratory per week. Prerequisite: a background in biology and chemistry. SPRING. Dr. Burt and Staff.

### Anesthesiology

BRADLEY E. SMITH, M.D., Professor of Anesthesiology and Chairman of the Department M. LAWRENCE BERMAN, Ph.D., M.D., Professor of Anesthesiology; Associate Professor of Pharmacology

CHARLES B. PITTINGER, M.D., Professor of Anesthesiology, Emeritus DAVID A. CHADWICK, M.B., Ch.B., Clinical Professor of Anesthesiology JOANNE L. LINN, M.D., Associate Professor of Anesthesiology

DUANNE L. LINN, M.D., Associate Professor of Anesthesiology

PETER MARGAND, M.B.,B.Chir., Associate Professor of Anesthesiology; Medical Director of

the Program in Respiratory Therapy

CHARLES W. QUIMBY, JR., M.D., LL.B., Associate Professor of Anesthesiology GEOFFREY BERRY, M.B., Ch.B., Associate Clinical Professor of Anesthesiology YILMAZ ERYASA, M.D., Associate Clinical Professor of Anesthesiology LAWRENCE G. SCHULL, M.D., Associate Clinical Professor of Anesthesiology ILDEFONSO A. ALCANTARA, M.D., Assistant Professor of Anesthesiology

KRISHNA GHOSH, M.D., Assistant Professor of Anesthesiology

WINSTON CLIVE-VICTOR PARRIS, M.B., B.S., Assistant Professor of Anesthesiology

JAMES M. PHYTHYON, M.D., Assistant Professor of Anesthesiology

PAULA F. CONAWAY SANDIDGE, M.D., Assistant Professor of Anesthesiology

GEETA VASUDEO, M.B., B.S., Assistant Professor of Anesthesiology

MARGARET WOOD, M.B., Ch.B., Assistant Professor of Anesthesiology

JAMES SUMPTER ANDERSON, JR., M.D., Assistant Clinical Professor of Anesthesiology

THOMAS CALDWELL, M.D., Assistant Clinical Professor of Anesthesiology

CHARLES G. CANNON, JR., M.D., Assistant Clinical Professor of Anesthesiology

PONG M. CHANG, M.D., Assistant Clinical Professor of Anesthesiology JAMES FOSTER, M.D., Assistant Clinical Professor of Anesthesiology

EROL GENCA, M.D., Assistant Clinical Professor of Anesthesiology

BASEL M. MIXON, JR., M.D., Assistant Clinical Professor of Anesthesiology

MICHAEL BERTZ, D.D.S., Clinical Instructor in Anesthesiology JAMES A. RAMSEY, M.D., Clinical Instructor in Anesthesiology

DAREL G. HESS, Ph.D., Research Associate in Anesthesiology

THE Department of Anesthesiology offers a required lecture course for third-year students on aspects of the general practice of anesthesiology. Fourth year elective courses are offered in the pharmacology of anesthesiology, as well as a clerkship which includes didactic and operating room experience in the conduction of anesthesia.

#### Required Course

501. Anesthesiology. This course for third year students consists of a series of lectures on some aspects of anesthesiology applicable to the general practice of medicine. Among the topics presented will be:

preoperative evaluation of the patient; premedication, selection of anesthetic agent and technique; local anesthesia, resuscitation, and oxygen therapy. One hour per week, academic units. Dr. Smith and Staff.

## Biochemistry

LEON W. CUNNINGHAM, Ph.D., Professor of Biochemistry and Chairman of the Department HARRY P. BROQUIST, Ph.D., Professor of Biochemistry and Director of the Division of Nutrition

FRANK CHYTIL, R.T.Dr., C.Sc., Professor of Biochemistry; Assistant Professor of Medicine STANLEY COHEN, Ph.D., American Cancer Society Research Professor of Biochemistry JOHN G. CONIGLIO, Ph.D., Professor of Biochemistry

WILLIAM J. DARBY, M.D., Ph.D., Sc.D., Professor of Biochemistry (Nutrition); Honorary Curator for Special Collections-Nutrition, Medical Center Library

WAYLAND J. HAYES, JR., Ph.D., M.D., Professor of Biochemistry

LUBOMIR S. HNILICA, Ph.D., C.Sc., Mary Geddes Stahlman Professor of Cancer Research; Professor of Biochemistry; Professor of Pathology

TADASHI INAGAMI, Ph.D., D.Sc., Professor of Biochemistry

ROBERT A. NEAL, Ph.D., Professor of Biochemistry and Director of the Center in Environmental Toxicology

STEVEN SCHENKER, M.D., Professor of Medicine and Head of the Division of Gastroenterology; Professor of Biochemistry

E. NEIGE TODHUNTER, Ph.D., Visiting Professor of Nutrition

OSCAR TOUSTER, Ph.D., Professor of Molecular Biology and Chairman of the Department, College of Arts & Science; Professor of Biochemistry

CONRAD WAGNER, Ph.D., Professor of Biochemistry

BENJAMIN J. WILSON, Ph.D., Professor of Biochemistry

ROBERT N. BRADY, Ph.D., Associate Professor of Biochemistry

LARRY R. DALTON, Ph.D., Research Associate Professor of Biochemistry

WILLARD R. FAULKNER, Ph.D., Associate Professor of Biochemistry

KENNETH J. LEMBACH, Ph.D., Associate Professor of Biochemistry

GEORGE V. MANN, Sc.D., M.D., Associate Professor of Biochemistry; Associate Professor of Medicine in Biochemistry; Career Investigator, National Heart & Lung Institute

J. DAVID PUETT, Ph.D., Associate Professor of Biochemistry

ROBERT BENVENISTE, Ph.D., Assistant Professor of Medicine; Assistant Professor of Biochemistry

PEGGY R. BORUM, Ph.D., Research Assistant Professor of Biochemistry

ROBERT J. BOUCEK, M.D., Assistant Professor of Pediatrics; Assistant Professor of Biochemistry

L. THOMAS BURKA, Ph.D., Research Assistant Professor of Chemistry, College of Arts & Science; Research Assistant Professor of Biochemistry

GRAHAM CARPENTER, Ph.D., Research Assistant Professor of Medicine (Dermatology): Research Assistant Professor of Biochemistry

PHILIP W. FELTS, M.D., Assistant Professor of Medicine; Assistant Professor of Biochemistry; Director of the Division of Student Affairs

DIXIE W. FREDERIKSEN, Ph.D., Assistant Professor of Biochemistry

HARRY L. GREENE, M.D., Associate Professor of Pediatrics; Assistant Professor of Biochemistry

F. PETER GUENGERICH, Ph.D., Assistant Professor of Biochemistry

W. DAVID HANKINS, Ph.D., Research Assistant Professor of Medicine; Research Assistant Professor of Biochemistry

RAYMOND D. HARBISON, Ph.D., Associate Professor of Pharmacology; Assistant Professor of Biochemistry; Senior Research Associate, Institute for Public Policy Studies CARL G. HELLERQVIST, fil.dr., Assistant Professor of Biochemistry

LESLIE A. HOLLADAY, Ph.D., Research Assistant Professor of Biochemistry
DONALD W. HORNE, Ph.D., Research Assistant Professor of Biochemistry
RONALD T. KUCZENSKI, Ph.D., Associate Professor of Pharmacology; Assistant Professor
of Biochemistry
DAVID E. ONG, Ph.D., Research Assistant Professor of Biochemistry
N. VASUDEVA PANIKER, Ph.D., Assistant Professor of Pathology; Assistant Professor of
Biochemistry

JAMES V. STAROS, Ph.D., Assistant Professor of Biochemistry LAKEN G. WARNOCK, Ph.D., Assistant Professor of Biochemistry MARIO ASCOLI, Ph.D., Research Instructor in Biochemistry JOHN E. GARST, Ph.D., Research Instructor in Biochemistry R.D. BANKS, Ph.D., Research Associate in Biochemistry ROY EDWARD BRANSON, JR., Ph.D., Research Associate in Biochemistry ROBERT C. BRIGGS, Ph.D., Research Associate in Biochemistry CHRISTOPHER P. CHENGELIS, Ph.D., Research Associate in Biochemistry MARGARET DEW, Ph.D., Research Associate in Biochemistry COLIN DYKES, Ph.D., Research Associate in Biochemistry JOAN FELICE, Ph.D., Research Associate in Biochemistry THOMAS A. GASIEWICZ, Ph.D., Research Associate in Biochemistry HARRY HAIGLER, Ph.D., Research Associate in Biochemistry JAMES R. HALPERT, Ph.D., Research Associate in Biochemistry SHIGEHISA HIROSE, Ph.D., Research Associate in Biochemistry WANDA M. KRAJEWSKA, Ph.D., Research Associate in Biochemistry KENJI KUROMIZU, Ph.D., Research Associate in Biochemistry TRUDY LIONEL, Ph.D., Research Associate in Biochemistry CLAUS MARKERT, Ph.D., Research Associate in Biochemistry WILLIAM R. PORTER, Ph.D., Research Associate in Biochemistry WARREN SCHMIDT, Ph.D., Research Associate in Biochemistry VIRENDER S. SHEORAIN, Ph.D., Research Associate in Biochemistry YUKIO TAKII, Ph.D., Research Associate in Biochemistry CHEN-HSIEN TSAI, Ph.D., Research Associate in Biochemistry HELENA V. VADI, Ph.D., Research Associate in Biochemistry PHILIP P. WANG, Ph.D., Research Associate in Biochemistry HIDEYOSHI YOKOSAWA, Ph.D., Research Associate in Biochemistry NORIKO YOKOSAWA, Ph.D., Research Associate in Biochemistry MARTA S. ZIMMER, Ph.D., Research Associate in Biochemistry

THE Department of Biochemistry offers to first-year students basic information on the chemistry of chemical compounds and related reactions in living organisms. Electives available to students at all levels include such topics as: nutritional biochemistry; fundamental principles in use of radioisotopes in biology and medicine; toxicology; fundamentals of human nutrition; advanced biochemistry; genes and their regulation; clinical biochemistry; lipid chemistry, metabolism and transport; nutrition rounds; chemical mechanisms of enzyme catalysis; and reproductive biology. Research experience in biochemistry and nutrition is available to fourth-year students. The department offers as electives in

the first, second, and fourth year a biochemistry seminar and a course in special problems in nutrition. A preceptorship in biochemistry is also offered in the fourth year.

#### **Required Courses**

**501. Biochemistry.** Lectures on the chemistry and metabolism of carbohydrates, proteins, lipids, nucleoproteins, and on the chemistry and function of enzymes, vitamins, and other factors related to cellular metabolism and body processes. FALL [3] *Staff.* 

**502. Biochemistry Laboratory.** This laboratory course accompanies Biochemistry 501 and emphasizes chemical, physical, and physiologic aspects of topics presented there. FALL. [4] Staff.

# Hearing and Speech Sciences

FRED H. BESS, Ph.D., Professor of Audiology and Director of the Division of Hearing & Speech Sciences

FREEMAN McCONNELL, Ph.D., Professor of Audiology; Associate Professor of Otolaryngology (On leave)

JAY SANDERS, Ph.D., Professor of Audiology

ROBERT F. COLEMAN, Ph.D., Associate Professor of Speech Science; Assistant Professor of Otolaryngology

RUSSELL J. LOVE, Ph.D., Associate Professor of Speech & Language Pathology KATHRYN B. HORTON, M.S., Adjunct Associate Professor of Speech & Language Pathology BARRY A. FREEMAN, Ph.D., Assistant Professor of Audiology

LARRY E. HUMES, Ph.D., Assistant Professor of Hearing & Speech Sciences

A. RICHARD MALLARD, Ph.D., Assistant Professor of Speech Pathology

PETER F. NORLIN, Ph.D., Assistant Professor of Pediatrics (Speech Pathology); Assistant Professor of Hearing & Speech Sciences

ANN B. SITTON, M.S., Assistant Professor of Audiology

WANDA WEBB, M.S., Assistant Professor of Hearing & Speech Sciences

MICHAEL E. GLASSCOCK III, M.D., Associate Clinical Professor of Otolaryngology; Assistant Clinical Professor of Hearing & Speech Sciences (Otolaryngology)

JOSEPH S. KEENAN, Ph.D., Assistant Clinical Professor of Speech Pathology BERTHA SMITH CLARK, M.A., Instructor in Aural Rehabilitation (On leave 1978/79)

LAURA L. KNOX, M.A., Instructor in Education of the Hearing Impaired

SUSAN A. LOGAN, M.S., Instructor in Audiology

SUZANNE W. BROOKS, M.A., Clinical Instructor in Speech Pathology

HELEN S. EMERSON, M.A., Clinical Instructor in Speech Pathology MARY DALE FITZGERALD, M.S., Clinical Instructor in Hearing & Speech Sciences

BARBARA Y. HIGGINS, M.S., Clinical Instructor in Audiology

BLAKE B. LAZENBY, M.S., Clinical Instructor in Audiology

KAREN MILITANA, M.Ed., Clinical Instructor in Hearing & Speech Sciences

THE Division of Hearing and Speech Sciences of the Division of Allied Health Professions offers work leading to the master's and Ph.D. degrees in the following areas: audiology, speech and language pathology, and

speech science. Information on regulations and requirements may be found in the catalogue of the Graduate School. The research, teaching, and clinical programs associated with this program are housed in the Bill Wilkerson Hearing and Speech Center adjacent to the Vanderbilt University campus at the corner of Nineteenth Avenue, South, and Edgehill Avenue.

### Medical Administration

JOHN E. CHAPMAN, M.D., Professor of Pharmacology; Professor of Medical Administration and Chairman of the Division; Dean of the School of Medicine

RICHARD O. CANNON, M.D., Professor of Medical Administration

VERNON E. WILSON, M.D., Professor of Medical Administration; Professor of Preventive Medicine & Public Health; Vice-President for Medical Affairs

C. RICHARD TREADWAY, M.D., Professor of Medical Administration; Associate Professor of Psychiatry; Associate Vice-President for Medical Affairs

DANIEL E. COSTELLO, Ph.D., Associate Professor of Medical Administration; Director, Office of Communication Research

WILLIAM KREYKES, M.H.A., Associate Professor of Medical Administration and Executive Director of Vanderbilt Hospital

FRANK A. McDONOUGH, Ph.D., Adjunct Associate Professor of Medical Administration JAMES R. RAWLS, Ph.D., Associate Professor of Management, Owen Graduate School of Management; Adjunct Associate Professor of Medical Administration

JOSEPH GILLESPIE, Assistant Professor of Medical Administration

THOMAS W. HAINES, Ph.D., Assistant Professor of Medical Administration; Director of the Division of Sponsored Research & Programs

LEVI N. HILLING, M.S., Assistant Professor of Medical Administration and Associate Executive Director of Vanderbilt Hospital

T. MARK HODGES, B.L.S., Assistant Professor of Medical Administration; Director of the Medical Center Library

PAUL G. McFARLAND, M.B.A., Assistant Professor of Medical Administration; Assistant Vice-President for Medical Affairs

RICHARD C. THOMAS, M.A., Associate in Medical Administration

HOLLY CALDWELL, M.A., Assistant in Medical Administration PAUL CORRIGAN, JR., M.H.A., Instructor in Medical Administration

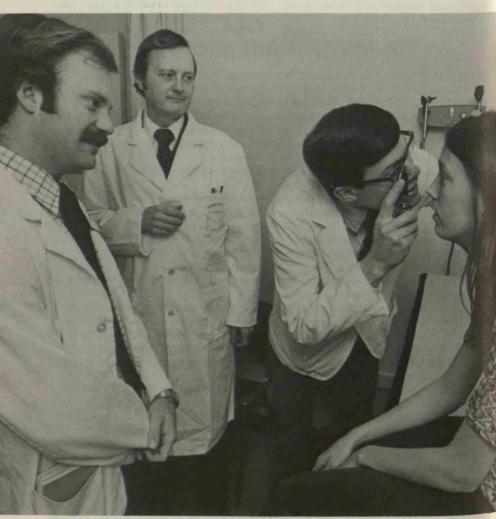
C. LEWIS LAVINE, M.A., Instructor in Medical Administration (On leave 1978/79)

KENNETH H. LINGO, M.B.A., Instructor in Medical Administration

JOHN O. LOSTETTER, M.S., Instructor in Medical Administration; Assistant to the Dean MARSHA TANNER PATTERSON, B.A., M.P.H., Assistant in Medical Administration

LOYD S. PETTEGREW, Ph.D., Instructor in Medical Administration

THE Division of Medical Administration was established in 1969 to provide an academic base for those who engage in service, education, and research as these support the objectives of the Medical School. The division offers elective courses on subjects related to past and present trends in American medical education, the influence of various profes-



Students in some clerkships participate in patient interviews in the clinics.

sional organizations and government bodies in medical education, and issues in health care at all levels. Special subject seminars are encouraged.

### Medicine

GRANT W. LIDDLE, M.D., Professor of Medicine and Chairman of the Department

KENNETH L. BRIGHAM, M.D., Professor of Medicine; Associate Professor of Biomedical Engineering, School of Engineering; Director of the Pulmonary Specialized Center of Research in Hypertension

THOMAS E. BRITTINGHAM, M.D., Professor of Medicine

OSCAR B. CROFFORD, JR., M.D., Professor of Medicine; Addison Scoville Chair in Diabetes & Metabolism; Head of the Division of Diabetes & Metabolism; Associate Professor of Physiology; Director of the Diabetes Endocrinology Center

ROGER M. DES PREZ, M.D., Professor of Medicine

ERIC ENGEL, M.D., Professor of Medicine and Head of the Division of Genetics; Associate Professor of Pediatrics; Director of the Genetics Center (On leave spring semester)

RICHARD A. FRANCE, M.D., Professor of Medicine, Emeritus

GOTTLIEB C. FRIESINGER II, M.D., Professor of Medicine and Head of the Division of Cardiology

H. EARL GINN, M.D., Professor of Medicine and Head of the Renal Division; Associate Professor of Urology; Associate Professor of Biomedical Engineering, School of Engineering

ROBERT A. GOODWIN, M.D., Professor of Medicine

JACEK HAWIGER, M.D., D.M.Sc., Professor of Pathology; Professor of Medicine (On leave 1978/79)

DAVID E. JENKINS, JR., M.D., Professor of Medicine

RUDOLPH H. KAMPMEIER, M.D., Professor of Medicine, Emeritus

SANFORD B. KRANTZ, M.D., Professor of Medicine and Head of the Division of Hematology

CLIFTON K. MEADOR, M.D., Professor of Medicine

ANN STONE MINOT, Ph.D., Professor of Medicine, Emerita

JOHN A. OATES, M.D., Professor of Pharmacology; Joe and Morris Werthan Professor of Investigative Medicine; Director of the Research Center for Pharmacology & Drug Toxicity

DAVID N. ORTH, M.D., Professor of Medicine; Associate Professor of Physiology

THOMAS F. PAINE, JR., M.D., Professor of Medicine

DAVID RABIN, M.D., Professor of Medicine; Professor of Obstetrics & Gynecology

LLOYD H. RAMSEY, M.D., Professor of Medicine: Associate Dean

WILLIAM D. SALMON, JR., M.D., Professor of Medicine

STEVEN SCHENKER, M.D., Professor of Medicine and Head of the Division of Gastroenterology; Professor of Biochemistry

DAVID G. SHAND, Ph.D., M.B.,B.S., Professor of Pharmacology; Professor of Medicine; Director of the Specialized Center of Research in Hypertension

JAMES D. SNELL, JR., M.D.., Professor of Medicine

W. ANDERSON SPICKARD, JR., M.D., Professor of Medicine

SAMUEL E. STUMPF, Ph.D., Professor of Law, School of Law; Research Professor of Medical Philosophy

JOHN B. YOUMANS, M.D., Professor of Medicine, Emeritus

THOMAS BOWMAN ZERFOSS, M.D., Professor of Medicine, Emeritus; Director Emeritus, Student Health Service

F. TREMAINE BILLINGS, M.D., Clinical Professor of Medicine, Emeritus LAURENCE A. GROSSMAN, M.D., Clinical Professor of Medicine, HOLLIS E. JOHNSON, M.D., Clinical Professor of Medicine, Emeritus SAMUEL S. RIVEN, M.D., C.M., Clinical Professor of Medicine, Emeritus ADDISON B. SCOVILLE, JR., M.D., Clinical Professor of Medicine HARRISON J. SHULL, M.D., Clinical Professor of Medicine, Emeritus W. DAVID STRAYHORN, M.D., Clinical Professor of Medicine, Emeritus CLARENCE S. THOMAS, M.D., Clinical Professor of Medicine, Emeritus CLARENCE S. THOMAS, M.D., Clinical Professor of Medicine, Emeritus

ROBERT H. ALFORD, M.D., Associate Professor of Medicine

ROBERT A. BRANCH, M.B., Ch.B., Associate Professor of Medicine; Associate Professor of Pharmacology

A. BERTAND BRILL M.D. Ph.D. Professor of Redicional Associate Professor of

A. BERTRAND BRILL, M.D., Ph.D., Professor of Radiology and Associate Professor of Medicine; Director of the Program in Nuclear Medicine Technology; Associate Professor of Physics, College of Arts & Science; Associate Professor of Biomedical Engineering, School of Engineering

G. DEWEY DUNN, M.D., Associate Professor of Medicine

JOHN M. FLEXNER, M.D., Associate Professor of Medicine

JAMES P. FIELDS, M.D., Associate Professor of Medicine; Associate Professor of Pathology

ANASTACIO HOYUMPA, M.D., Associate Professor of Medicine

WILLIAM W. LACY, M.D., Associate Professor of Medicine; Co-Director of the Clinical Research Center

JOHN E. LILJENQUIST, M.D., Associate Professor of Medicine; Investigator, Howard Hughes Medical Institute

GEORGE V. MANN, Sc.D., M.D., Associate Professor of Biochemistry; Associate Professor of Medicine in Biochemistry; Career Investigator, National Heart & Lung Institute

ZELL A. McGEE, M.D., Associate Professor of Medicine

L. CLIFFORD McKEE, M.D., Associate Professor of Medicine

SAMUEL R. MARNEY, JR., M.D., Associate Professor of Medicine

ROBERT K. OLDHAM, M.D., Associate Professor of Medicine

WILLIAM SCHAFFNER, M.D., Associate Professor of Medicine; Associate Professor of Preventive Medicine & Public Health

STEPHEN SCHILLIG, M.D., Associate Professor of Medicine

JOHN S. SERGENT, M.D., Associate Professor of Medicine

BRUCE SINCLAIR-SMITH, M.B., B.S., Associate Professor of Medicine

PAUL E. SLATON, JR., M.D., Associate Professor of Medicine and Director of the Division of Continuing Education

RAPHAEL SMITH, M.D., Associate Professor of Medicine; Associate Professor of Biomedical Engineering, School of Engineering

WILLIAM J. STONE, M.D., Associate Professor of Medicine; Associate Professor of Urology ROBERT T. TERRY, M.D., Associate Professor of Medicine, Emeritus

PAUL E. TESCHAN, M.D., Associate Professor of Medicine; Associate Professor of Urology; Associate Professor of Biomedical Engineering, School of Engineering

FREDERICK A. WILSON, M.D., Associate Professor of Medicine; Investigator, Howard Hughes Medical Institute

CRAWFORD W. ADAMS, M.D., Associate Clinical Professor of Medicine BENJAMIN J. ALPER, M.D., Associate Clinical Professor of Medicine W. BARTON CAMPBELL, M.D., Associate Clinical Professor of Medicine THOMAS F. FRIST, M.D., Associate Clinical Professor of Medicine, Emeritus FRED GOLDNER, JR., M.D., Associate Clinical Professor of Medicine ALAN L. GRABER, M.D., Associate Clinical Professor of Medicine

JOHN HOOPER GRISCOM, M.D., Associate Clinical Professor of Medicine

THOMAS B. HALTOM, M.D., Associate Clinical Professor of Medicine

JOHN S. JOHNSON, M.D., Associate Clinical Professor of Medicine

HERMAN J. KAPLAN, M.D., Associate Clinical Professor of Medicine

HARRY L. PAGE, M.D., Associate Clinical Professor of Medicine

THOMAS GUV PENNINGTON, M.D., Associate Clinical Professor of Medicine

CHARLES B. THORNE, M.D., Associate Clinical Professor of Medicine

GEORGE R. AVANT, M.D., Assistant Professor of Medicine

ROBERT BENVENISTE, Ph.D., Assistant Professor of Medicine; Assistant Professor of Biochemistry

JAMES D. BOMBOY, JR., M.D., Assistant Professor of Medicine

RONALD E. BOWERS, M.D., Assistant Professor of Medicine

LEIF BRORSON, M.D., Visiting Assistant Professor of Medicine

ALAN D. CHERRINGTON, Ph.D., Assistant Professor of Physiology; Assistant Professor of Medicine

FRANK CHYTIL, Ph.D., C.Sc., Professor of Biochemistry; Assistant Professor of Medicine PHILIP W. FELTS, M.D., Assistant Professor of Medicine; Assistant Professor of Biochemistry; Director of the Division of Student Affairs

JAMES T. FORBES, Ph.D., Research Assistant Professor of Medicine; Research Assistant Professor of Pathology

RICHARD LEE GIBSON, M.D., Assistant Professor of Medicine

FRANCIS W. GLUCK, JR., M.D., Assistant Professor of Medicine

STANLEY E. GRABER, M.D., Assistant Professor of Medicine

FRANK ANTHONY GRECO, M.D., Assistant Professor of Medicine

DAVID W. GREGORY, M.D., Assistant Professor of Medicine

KENNETH R. HANDE, M.D., Assistant Professor of Medicine; Assistant Professor of Pharmacology

WILLIAM DAVID HANKINS, Ph.D., Research Assistant Professor of Medicine; Research Assistant Professor of Biochemistry

THOMAS R. HARRIS, Ph.D., M.D., Professor of Chemical Engineering & Biomedical Engineering, School of Engineering; Assistant Professor of Medicine

ROBERT W. HARRISON, M.D., Assistant Professor of Medicine; Investigator, Howard Hughes Medical Institute

CRAIG R. HEIM, M.D., Assistant Professor of Medicine

JOHN W. HOLLIFIELD, M.D., Assistant Professor of Medicine

MARCUS C. HOUSTON, M.D., Assistant Professor of Medicine

DONALD P. ISLAND, B.S., Assistant Professor of Medical Research

H. KEITH JOHNSON, M.D., Assistant Professor of Medicine

ALLEN B. KAISER, M.D., Assistant Professor of Medicine

MARVIN W. KRONENBERG, M.D., Assistant Professor of Medicine

LEWIS B. LEFKOWITZ, JR., M.D., Professor of Preventive Medicine & Public Health; Assistant Professor of Medicine

JOHN M. LEONARD, M.D., Assistant Professor of Medicine

ROBERT C. MacDONELL, M.D., Assistant Professor of Medicine; Assistant Professor of Pediatrics

THURMAN DWIGHT McKINNEY, M.D., Assistant Professor of Medicine

M. ANN MELLY, Ph.D., Assistant Professor of Medicine; Assistant Professor of Microbiology

JAMES M. PERRY, JR., M.D., Assistant Professor of Medicine

RONALD LEE RICHARDSON, M.D., Assistant Professor of Medicine

L. JACKSON ROBERTS II, M.D., Assistant Professor of Pharmacology; Assistant Professor of Medicine DAVID H. ROBERTSON, JR., M.D., Assistant Professor of Medicine; Assistant Professor of Pharmacology

ROSE STEVENS ROBERTSON, M.D., Assistant Professor of Medicine

RICHARD SCHNEIDER, M.D., Assistant Professor of Medicine

VINCENT SPEEG, Ph.D., M.D., Assistant Professor of Medicine

RICHARD STEIN, M.D., Assistant Professor of Medicine

RHONDA D. TERRY, M.S., Associate in Medicine (Nutrition)

ALASTAIR J. J. WOOD, M.B., Ch.B., Assistant Professor of Medicine; Assistant Professor of Pharmacology

JOHN R. WOODS, M.D., Assistant Professor of Medicine

RAYMOND WOOSLEY, M.D., Assistant Professor of Medicine; Assistant Professor of Pharmacology

ROBERT J. WORKMAN, M.D., Assistant Professor of Medicine

SAMUEL S. WRIGHT, M.D., Assistant Professor of Medicine; Director of the Student Health Service

JAMES ERWIN ANDERSON, JR., M.D., Assistant Clinical Professor of Medicine PAUL H. BARNETT, 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 THOMAS J. DAVIS, M.D., Assistant Clinical Professor of Medicine WILLIAM EWERS, M.D., Assistant Clinical Professor of Medicine J. VANCE FENTRESS, M.D., Assistant Clinical Professor of Medicine HOWARD R. FOREMAN, M.D., Assistant Clinical Professor of Medicine MILTON GROSSMAN, M.D., Assistant Clinical Professor of Medicine GERALD HALPRIN, M.D., Assistant Clinical Professor of Medicine AUBREY B. HARWELL, M.D., Assistant Clinical Professor of Medicine H. CAMPBELL HAYNIE, M.D., Assistant Clinical Professor of Medicine PETER R. KAPLAN, M.D., Assistant Clinical Professor of Medicine RALPH W. MASSIE, M.D., Assistant Clinical Professor of Medicine ALEXANDER C. McLEOD, M.D., Assistant Clinical Professor of Medicine CULLEN R. MERRITT, M.D., Assistant Clinical Professor of Medicine

PAUL R. STUMB, M.D., Assistant Clinical Professor of Medicine
ANNE SWEENEY, M.A., Assistant Clinical Professor of Medical Social Work; Assistant
Professor of Preventive Medicine & Public Health

JAMES N. THOMASSON, M.D., Assistant Clinical Professor of Medicine RUSSELL D. WARD, M.D., Assistant Clinical Professor of Medicine

CARL E. MITCHELL, M.D., Assistant Clinical Professor of Medicine DENNIS A. STOUDER, M.D., Assistant Clinical Professor of Medicine

JAMES P. WILSON, M.D., Assistant Clinical Professor of Medicine

LAWRENCE K. WOLFE, 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

JAMES M. BATEMAN, Ph.D., Research Instructor in Medicine (Biomedical Engineering): Research Associate in Pediatrics

JERRY C. COLLINS, Ph.D., Research Instructor in Medicine

BRUCE DAVIS, M.D., Instructor in Medicine

ALBERT K. DAWSON, Ph.D., Research Instructor in Medicine

LEWIS DANIEL ELLISTON, JR., Instructor in Medicine

LAURENT FAVRE, M.D., Instructor in Medicine

WILLIAM E. HARSTON, M.D., Instructor in Medicine STANLEY HIGGINS, Ph.D., Research Instructor in Medicine ADELAIDE H. HOHANNES, M.S.S.W., Instructor in Medical Social Work; Director of Social Work, Vanderbilt University Hospital THOMAS A. KOST, Ph.D., Instructor in Medicine (Hematology) JEFFREY LAZAR, Ph.D., Instructor in Pharmacology; Instructor in Medicine WENDELL E. NICHOLSON, B.S., Instructor in Medicine RODERICK K. ROBERTS, B.S., Instructor in Medicine ALICE M. SAVAGE, Ph.D., M.D., Instructor in Medicine EDWARD E. ANDERSON, M.D., Clinical Instructor in Medicine H. R. ANDERSON, M.D., Clinical Instructor in Medicine MARK S. AVERBUCH, M.D., Clinical Instructor in Medicine T. DEE BAKER, M.D., Clinical Instructor in Medicine JACK M. BATSON, M.D., Clinical Instructor in Medicine STANLEY J. BODNER, M.D., D.C.M.T., Clinical Instructor in Medicine; Clinical Instructor in Preventive Medicine JOHN B. BREINIG, M.D., Clinical Instructor in Medicine ROBERT T. COCHRAN, M.D., Clinical Instructor in Medicine ROBERT SETH COOPER, M.D., Clinical Instructor in Medicine ALAN C. DOPP, M.D., Clinical Instructor in Medicine ROBERT C. DUNKERLEY, JR., M.D., Clinical Instructor in Medicine ROY O. ELAM III, M.D., Clinical Instructor in Medicine MELVIN L. ELSON, M.D., Clinical Instructor in Medicine IRWIN B. ESKIND, M.D., Clinical Instructor in Medicine STEPHEN K. FELTS, M.D., Clinical Instructor in Medicine RAND T. FREDERIKSEN, M.D., Clinical Instructor in Medicine JAMES P. GREGORY, M.D., Clinical Instructor in Medicine HERBERT N. HARKLEROAD, M.D., Clinical Instructor in Medicine PHILIP W. HAYES, M.D., Clinical Instructor in Medicine JAMES H. HAYNES, M.D., Clinical Instructor in Medicine ROBERT M. HOLLISTER, M.D., Clinical Instructor in Medicine J. THOMAS JOHN, M.D., Clinical Instructor in Medicine IRA T. JOHNSON, M.D., Clinical Instructor in Medicine ROBERT M. JOHNSON, M.D., Clinical Instructor in Medicine OTTO MORSE KOCHTITZKY, M.D., Clinical Instructor in Medicine DOUGLAS P. MITCHELL, M.D., Clinical Instructor in Medicine WILLIAM G. MORRIS, M.D., Clinical Instructor in Medicine WILLIAM B. RALPH, M.D., Clinical Instructor in Medicine FRANK M. REMBERT, M.D., Clinical Instructor in Medicine HOWARD E. ROSEN, 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 JOHN ROBERT SCHWEIKERT, M.D., Clinical Instructor in Medicine HARRISON J. SHULL, JR., M.D., Clinical Instructor in Medicine MURRAY W. SMITH, M.D., Clinical Instructor in Medicine W. DAVID STRAYHORN, JR., M.D., Clinical Instructor in Medicine EDWARD L. TARPLEY, M.D., Clinical Instructor in Medicine AUBREY LEE TUCKER, JR., M.D., Clinical Instructor in Medicine W. CARTER WILLIAMS, JR., M.D., Clinical Instructor in Medicine

TAYLOR WRAY, M.D., Clinical Instructor in Medicine

K. BALUSUBRAMANIAN, Ph.D., Research Associate in Medicine
CHRISTINE BERTAGNA, M.D., Research Associate in Medicine
XAVIER YVES BERTAGNA, M.D., Research Associate in Medicine
PAUL V. DESMOND, B.S., Research Associate in Medicine
MARSHALL FRAZER, Ph.D., Research Associate in Medicine
EDWARD H. FRYER, Research Associate in Medicine
ADRIAN H. KUEPFER, Ph.D., Research Associate in Medicine
KAORU NOMURA, M.D., Research Associate in Medicine (Endocrinology)
EMI ODAGIRI, M.D., Research Associate in Medicine
NANCY L. ROGERS, M.S., Research Associate in Medicine
ROBERT J. ROSELLI, Ph.D., Research Associate in Medicine
ROBERT J. ROSELLI, Ph.D., Research Associate in Medicine

### Dermatology

LLOYD E. KING, JR., M.D., Ph.D., Associate Professor of Medicine and Head of the Division of Dermatology

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

GRAHAM CARPENTER, Ph.D., Research Assistant Professor of Medicine (Dermatology).
Research Assistant Professor of Biochemistry

FRANK G. WITHERSPOON, M.D., Assistant Clinical Professor of Dermatology JAMES R. HAMILTON, M.D., Assistant Clinical Professor of Dermatology WILLIAM B. HARWELL, JR., M.D., Clinical Instructor in Dermatology ALVIN H. MEYER, M.D., Clinical Instructor in Medicine (Dermatology) BERNARD J. PASS, M.D., Clinical Instructor in Dermatology BRUCE P'POOL, M.D., Clinical Instructor in Dermatology HOWARD LEE SALYER, M.D., Clinical Instructor in Dermatology

THE Department of Medicine offers four areas of required course work:

Second Year. Two courses: An interdepartmental course which introduces sophomore students to the basic laboratory techniques, methods, principles, and procedures of clinical medicine; and a course in the diagnosis of disease and the application of clinical medicine to patient care.

Third Year. Junior medical students are assigned to the medical wards for a ten-week period for an intensive inpatient experience.

Fourth Year. Senior medical students participate in an outpatient experience as well as a major medical clerkship.

The Department of Medicine has many sub-specialty divisions, and a number of different elective programs are available.

#### **Clinical Research Electives**

The clinical research elective program includes such specialty areas as infectious diseases, nuclear medicine, medical cytogenetics, ischemic heart disease, hematology, electrocardiography and electrophysiology, and biomedical engineering.

#### Clinical Clerkships

The clinical clerkship program offers fourth-year electives which include rotations at affiliated hospitals, participation in a model private teaching unit, and an experience in the Clinical Research Center at Vanderbilt Hospital. Other clerkships include such sub-specialty areas as pulmonary disease, renal pathophysiology, infectious diseases, clinical pharmacology, clinical epidemiology, cardiology, pulmonary consultation, rheumatology, clinical endocrinology, and medical oncology. A summer clerkship in medicine at the Veterans Administration Hospital is offered as an elective to third-year students.

#### **Medical Specialty Clinics**

Experiences in the medical specialty clinics elective program available to fourth-year students include the following specialties: allergy, dermatology, diabetes, endocrinology, gastroenterology, hematology, rheumatology, and chest.

#### Other Electives

A number of other electives available to students at various levels consist of course work covering a variety of subjects which include: problems facing the prospective intern; pulmonary disorders; human nutrition; clinical biochemistry; psychosocial aspects of life-threatening illness, dying, and death; disorders of fluid and electrolyte metabolism; clinical electrocardiography; clinical endocrinology; nutrition rounds; renal pathophysiology; medical genetics and cytogenetics; correlations in cardiological disease; history of medicine; medical philosophy; basic concepts of cancer; clinical diagnosis of cancer; cancer theraphy; laboratory experiences in cardiac catheterization.

### Required Courses

501.1. Laboratory Methods in Clinical Science. An interdepartmental course designed to acquaint the student with the basic

laboratory techniques, methods, principles, and procedures employed in clinical medicine. Weekly meetings for a total of

twenty-four weeks with the initial twelve weeks devoted entirely to hematologic laboratory methods and theory. Following this, such topics as parasitology, principles of roentgen diagnosis, clinical bacteriology, urinalysis, renal function tests, laboratory tests in neurology, examination of stool and gastric content, and examination of joint fluid will be covered. Basic format of course is a one-hour lecture in which theory and clinical indications for laboratory methods will be stressed. Following this, there will be a laboratory period of two hours at which time demonstrations and the practical application of lecture material will be stressed. During the laboratory, students will be divided into small groups of units with individual instructors and assistants. Precise outlines and laboratory guides will be distributed. Dr. Flexner, Dr. Krantz, Dr. Graber. Dr. Schenker, Dr. McGee, Dr. Ginn, Dr. McKee, and Gerald M. Fenichel, Professor of Neurology.

**501.2. Physical Diagnosis.** Education of sophomore medical students in diagnosis of disease by the art of examination at the bedside and in the laboratory, emphasizing the significance of information gained in the basic science courses as applied to clinical medicine. SPRING. *Dr. Pennington.* 

502. Clinical Clerkship. One third of the third-year class are assigned to the medical wards for ten-week periods. During the medical clerkship, time is divided equally between the Vanderbilt Hospital and the Veterans Administration Hospital. The medical wards at Vanderbilt Hospital comprise seventy-five ward beds used in teaching, plus an additional twenty-one beds in the Clinical Research Center. The Veterans Administration Hospital has approximately 100 teaching beds. At Vanderbilt Hospital these services include patients with diseases of the nervous system and the skin in addition to general medical patients. At the Veterans Administration Hospital there is a separate neurologic ward to which clinical clerks are assigned for two weeks during their medical clerkship. In addition, there is an active pulmonary service which functions within the medical service at the Veterans Administration Hospital. Patients are under the care of members of the faculty of medicine. Subdepartmental areas are organized for teaching and clinical research as well as management of patients. The clinical clerkship is regarded as the backbone of the student's training in medicine and represents the most intensive inpatient experience offered within the department. It is believed that learning is most vivid through direct experience with patients, obtaining histories, doing physicals and laboratory studies, and that it is amplified by reading and intensive contact with members of the house staff and teaching staff. Students are given considerable responsibility under close supervision of the teaching staff. Additional instruction is carried out during rounds with the chief of service. In these sessions, clinical clerks present cases for discussion and criticism and the more important fields of internal medicine are covered. Instruction in dermatology, consisting of a series of clinics and clinic demonstrations, is held once weekly in the Veterans Administration Hospital. Ward work is supplemented by numerous teaching and subspecialty conferences held throughout the academic year. Dr. Liddle, Dr. Brittingham, Dr. Des Prez. Dr. Salmon, and Staff of the Department of Medicine.

504. Medical Out-Patient Clinic. During the fourth year, each student is assigned one morning clinic period a week in the outpatient department. This experience gives the fourth-year student major responsibilities for patient work-up and care in an environment that provides supervision and consultation from many branches of medicine. The long term care and follow-up of ambulatory patients and further refinement of skills in history taking and physical examination are stressed. During this period the student becomes acquainted with the resources which other services can bring to bear in the cooperative management of patients with chronic disease. Dr. Spickard, Dr. Gluck, Dr. Leonard, and Staff,



## Microbiology

ALBERT S. KAPLAN, Ph.D., Professor of Microbiology and Chairman of the Department TAMAR BEN-PORAT, Ph.D., Professor of Microbiology

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

SIDNEY HARSHMAN, Sc.D., Professor of Microbiology and Associate Dean of the Graduate School

JOHN H. HASH, Ph.D., Professor of Microbiology and Associate Dean for Biomedical Sciences; Co-Director of the Clinical Research Center

DANIEL G. COLLEY, Ph.D., Associate Professor of Microbiology

RICHARD W. MOYER, Ph.D., Associate Professor of Microbiology

JOHN P. ROBINSON, Ph.D., Associate Professor of Microbiology

JEANETTE M. DeMARCHI, Ph.D., Research Assistant Professor of Microbiology

M. ANN MELLY, Ph.D., Assistant Professor of Medicine; Assistant Professor of Microbiology

SUE A. MOYER, Ph.D., Assistant Professor of Microbiology

C. MARTIN STOLTZFUS, Ph.D., Assistant Professor of Microbiology

FRANCES C. WOMACK, Ph.D., Assistant Professor of Microbiology

PETER F. WRIGHT, M.D., Assistant Professor of Pediatrics; Assistant Professor of Microbiology

MAYME LEE BLANKENSHIP, B.S., Research Instructor in Microbiology JIN-JYI CHANG, Ph.D., Research Associate in Microbiology STEPHEN G. KAYES, Ph.D., Research Associate in Microbiology FRAZER RIXON, B.Sc., Ph.D., Research Associate in Microbiology CHARLES W. TODD, Ph.D., Research Associate in Microbiology JONATHAN WOODWARD, Ph.D., Research Associate in Microbiology

THE Department of Microbiology provides second-year students with the basic understandings of micro-organisms in health and disease. Several electives are offered. One group of electives for second-year students consists of a series of lectures on such topics as: microbial toxins and enzymes, antibiotics and microbial metabolism, immunochemistry, basic animal virology, and microbial and macromolecular ultrastructure. An advanced immunochemistry laboratory experience is available, as an elective, to students at all levels. Second- and fourth-year students may select a laboratory course dealing with experimental methods in microbiology. A research program is also available to fourth-year students as an elective.

#### **Required Course**

**501. Microbiology.** Lectures and laboratory exercises. The important bacterial, mycotic, parasitic, and viral infections are considered from the standpoint of etiology, epidemiology, pathogenesis, immunology,

and laboratory diagnosis. Ten hours of lectures, seminars, and laboratory exercises. Prerequisite: Biochemistry 501-502 of equivalent. FALL. Staff.

## Neurology

GERALD M. FENICHEL, M.D., Professor of Neurology and Chairman of the Department; Professor of Pediatrics; Director of the Neuromuscular Disease Research Center GARY DUNCAN, M.D., Associate Professor of Neurology and Vice-Chairman of the Department

H. CARL HAYWOOD, Ph.D., Professor of Neurology

CHARLES E. WELLS, M.D., Professor of Psychiatry; Professor of Neurology

WILLIAM, M. CLARK, M.D., Clinical Professor of Neurology

BERTRAM E. SPROFKIN, M.D., Clinical Professor of Neurology; Associate Clinical Professor of Neuropathology

PEGGY FERRY, M.D., Associate Professor of Pediatrics; Associate Professor of Neurology FRANK R. FREEMON, M.D., Associate Professor of Neurology

JOHN SLOAN WARNER, M.D., Associate Clinical Professor of Neurology

ANTHONY W. KILROY, M.B., B.S., Assistant Professor of Neurology; Assistant Professor of Pediatrics

HOWARD S. KIRSHNER, M.D., Assistant Professor of Neurology PETER K. LAW. Ph.D., Assistant Professor of Neurology

REYNALDO P. LAZARO, M.D., Instructor in Neurology

RUSSELL D. ROLLINSON, M.B., B.S., Instructor in Neurology

THE Department of Neurology offers instruction to third-year students in diseases of the nervous system. Electives offered by the department include an introduction to clinical neurology which stresses the importance of neuroanatomy and physiology in the understanding of neurological disease, and an introduction to electromycography. Further clinical experience can be attained through specialty clinics offered as fourth-year electives. These clinics include the specialties of: pediatric neurology, adult neurology, epilepsy, general neurology, and neuromuscular disease. Clerkships in neurology at affiliated hospitals are available, as electives, in the fourth year. Elective research programs in basic neuroscience or clinical neurology are available to students at all levels.

### Required Course

501. Clinical Clerkship. All members of the third-year class are alternately assigned to the neurology wards for two and one-half weeks. Students are given direct responsibility for the evaluation and care of patients

under the supervision of house staff and faculty. This brief exposure is intended to provide the students with an approach to patients with diseases of the nervous system. Dr. Duncan and Staff. Students in clinical experiences make rounds with attending physicians on follow-ups of inpatients.



# Obstetrics and Gynecology

LONNIE S. BURNETT, M.D., Professor of Obstetrics & Gynecology and Chairman of the Department CONRAD G. JULIAN, M.D., Professor of Obstetrics & Gynecology ALLEN P. KILLAM, M.D., Professor of Obstetrics & Gynecology MARIE-CLAIRE ORGEBIN-CRIST, Ph.D., Lucius E. Burch Professor of Reproductive Biology & Family Planning; Professor of Anatomy; Director of the Center for Population Research DAVID RABIN, M.D., Professor of Medicine; Professor of Obstetrics & Gynecology PIERRE SOUPART, M.D., Ph.D., Professor of Obstetrics & Gynecology (Research) JOHN S. ZELENIK, M.D., Professor of Obstetrics & Gynecology D. SCOTT BAYER, M.D., Clinical Professor of Obstetrics & Gynecology HENRY W. FOSTER, M.D., Clinical Professor of Obstetrics & Gynecology B. KIMBROUGH HIBBETT III, M.D., Clinical Professor of Obstetrics & Gynecology G. SYDNEY McCLELLAN, M.D., Clinical Professor of Obstetrics & Gynecology, Emeritus C. GORDON PEERMAN, JR., M.D., Clinical Professor of Obstetrics & Gynecology HOUSTON SARRATT, M.D., Clinical Professor of Obstetrics & Gynecology FRANK H. BOEHM, M.D., Associate Professor of Obstetrics & Gynecology LARRY T. ARNOLD, M.D., Associate Clinical Professor of Obstetrics & Gynecology ROGER B. BURRUS, M.D., Associate Clinical Professor of Obstetrics & Gynecology JOHN SMITH CAYCE, M.D., Associate Professor of Clinical Obstetrics, Emeritus ANGUS M. G. CROOK, M.D., Associate Clinical Professor of Obstetrics & Gynecology JAMES W. JOHNSON, M.D., Associate Clinical Professor of Obstetrics & Gynecology JAMES B. MILLIS, M.D., Associate Clinical Professor of Obstetrics & Gynecology; Associate Clinical Professor of Radiology WILLARD O. TIRRILL, JR., M.D., Associate Clinical Professor of Obstetrics, Emeritus ROBERT H. TOSH, M.D., Associate Clinical Professor of Obstetrics & Gynecology JAMES F. DANIELL, M.D., Assistant Professor of Obstetrics & Gynecology BENJAMIN J. DANZO, Ph.D., Assistant Professor of Obstetrics & Gynecology DAVID L. DIPIETRO, Ph.D., Assistant Professor of Obstetrics & Gynecology (Research) JAMES H. GROWDON, JR., M.D., Assistant Professor of Obstetrics & Gynecology LOWELL W. ROGERS, M.D., Assistant Professor of Pathology; Assistant Professor of Obstetics & Gynecology RUSSELL T. BIRMINGHAM, M.D., Assistant Clinical Professor of Obstetrics & Gynecology BENJAMIN H. CALDWELL, JR., M.D., Assistant Clinical Professor of Obstetrics & Gynecology ROBERT L. CHALFANT, M.D., Assistant Clinical Professor of Obstetrics & Gynecology GEORGE B. CRAFTON, M.D., Assistant Clinical Professor of Obstetrics & Gynecology JAMES WOOD ELLIS, M.D., Assistant Clinical Professor of Obstetrics & Gynecology RALPH R. KLING, JR., M.D., Assistant Clinical Professor of Obstetrics & Gynecology ROLAND D. LAMB, M.D., Assistant Clinical Professor of Gynecology HORACE T. LAVELY, JR., M.D., Assistant Clinical Professor of Gynecology H. NEWTON LOVVORN, JR., M.D., Assistant Clinical Professor of Obstetrics & Gynecology HOMER M. PACE, M.D., Assistant Clinical Professor of Obstetrics & Gynecology ROY W. PARKER, M.D., Assistant Clinical Professor of Obstetrics & Gynecology ROBERT C. PATTERSON, JR., M.D., Assistant Clinical Professor of Obstetrics & Gynecology THOMAS F. WARDER, M.D., Assistant Clinical Professor of Obstetrics & Gynecology DONALD R. BARNETT, M.D., Instructor in Obstetrics & Gynecology CHARLES A. TORBIT, JR., Ph.D., Visiting Research Instructor in Obstetrics & Gynecology

JOHN VANHOOYDONK, M.D., Instructor in Obstetrics & Gynecology

HARRY BAER, M.D., Clinical Instructor in Obstetrics & Gynecology JAMES M. BRAKEFIELD, M.D., Clinical Instructor in Obstetrics & Gynecology JOE MICHAEL EDWARDS, M.D., Clinical Instructor in Obstetrics & Gynecology CHARLES M. GILL, M.D., Clinical Instructor in Obstetrics & Gynecology PAUL A. GREEN, JR., M.D., Clinical Instructor in Obstetrics & Gynecology ELWYN M. GRIMES, M.D., Clinical Instructor in Obstetrics & Gynecology FRICH B. GROOS, M.D., Clinical Instructor in Obstetrics & Gynecology CHARLIE JOE HOBDY, M.D., Clinical Instructor in Obstetrics & Gynecology CHARLES H. HUDDLESTON, M.D., Clinical Instructor in Obstetrics & Gynecology ORRIN LESTER JONES, JR., M.D., Clinical Instructor in Obstetrics & Gynecology WILLIAM D. MARTIN, M.D., Clinical Instructor in Obstetrics & Gynecology SUSAN JOHNSON McDANIEL, M.D., Clinical Instructor in Obstetrics & Gynecology PHILIP A. NICHOLAS, M.D., Clinical Instructor in Obstetrics & Gynecology RON N. RICE, M.D., Clinical Instructor in Obstetrics & Gynecology MITCHELL K. SANDERS, M.D., Clinical Instructor in Obstetrics & Gynecology WILBORN D. STRODE, M.D., Clinical Instructor in Obstetrics & Gynecology WILLIAM D. SUMPTER, JR., M.D., Clinical Instructor in Obstetrics & Gynecology KENNETH F. WHITAKER, M.D., Clinical Instructor in Obstetrics & Gynecology NORMAN E. WITTHAUER, M.D., Clinical Instructor in Obstetrics & Gynecology

THE Department of Obstetrics and Gynecology provides third-year students with an introductory experience in inpatient and outpatient obstetrics and gynecology. A number of electives are offered at various levels. These include: reproductive biology, a high-risk obstetrics seminar, human sexuality, gynecologic pathology, and sex counseling. Research experiences and a clinical clerkship in obstetrics and gynecology are available as electives to fourth-year students.

#### **Required Course**

**502.** Clinical Clerkship. One-eighth of the third-year class is assigned for five weeks in each year. An introductory experience in inpatient and outpatient obstetrics and

gynecology is obtained. One-half of the experience will be at the Nashville General Hospital. Dr. Burnett, Dr. Zelenik, Dr. Boehm, Dr. Growdon, and Dr. Acker.

# Ophthalmology

JAMES H. ELLIOTT, M.D., George Weeks Hale Professor of Ophthalmology and Chairman of the Department

DENIS M. O'DAY, M.D., Professor of Ophthalmology GEORGE W. BOUNDS, JR., M.D., Clinical Professor of Ophthalmology G. ALLEN LAWRENCE, M.D., Clinical Professor of Ophthalmology

HENRY CARROLL SMITH, M.D., Clinical Professor of Ophthalmology, Emeritus JOHN STEVENS ANDREWS, JR., Ph.D., Associate Professor of Ophthalmology; Director of Ophthalmic Laboratories

STEPHEN S. FEMAN, M.D., Associate Professor of Ophthalmology

JOHN A. FREEMAN, M.D., Ph.D., Associate Professor of Anatomy; Associate Professor of Ophthalmology

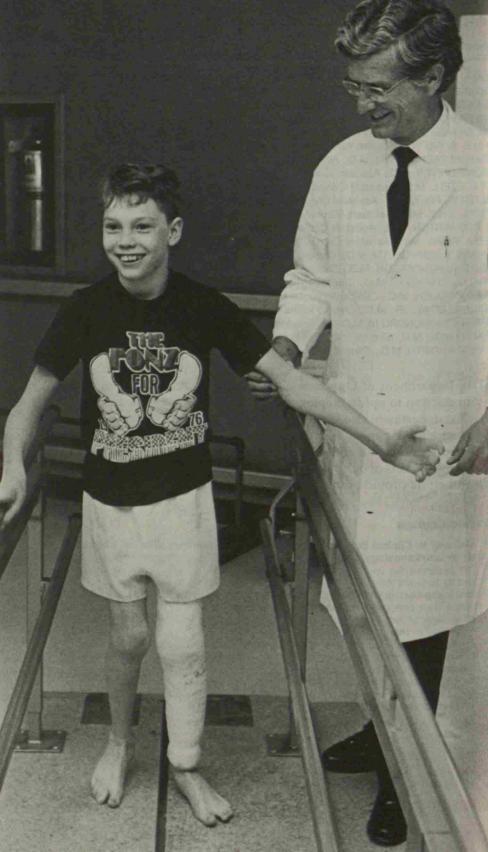
WALLACE H. FAULK, JR., M.D., Associate Clinical Professor of Ophthalmology FOWLER HOLLABAUGH, M.D., Associate Clinical Professor of Ophthalmology, Emeritus KATE SAVAGE ZERFOSS, M.D., Associate Clinical Professor of Ophthalmology, Emerita JOHN B. BOND III, M.D., Assistant Clinical Professor of Ophthalmology ABRAHAM PACHA CHEIJ, M.D., Assistant Clinical Professor of Ophthalmology L ROWE DRIVER, M.D., Assistant Clinical Professor of Ophthalmology ROY C. EZELL, M.D., Assistant Clinical Professor of Ophthalmology WALTER W. FREY, M.D., Assistant Clinical Professor of Ophthalmology PHILIP L. LYLE, M.D., Assistant Clinical Professor of Ophthalmology LEE ROY MINTON, M.D., Assistant Clinical Professor of Ophthalmology FRED A. ROWE, M.D., Assistant Clinical Professor of Ophthalmology RICHARD T. COPPOLETTI, M.D., Clinical Instructor in Ophthalmology ROBERT R. HENDERSON, M.D., Clinical Instructor in Ophthalmology DONALD J. JACKSON, M.D., Clinical Instructor in Ophthalmology JAMES P. LODEN, M.D., Clinical Instructor in Ophthalmology REGINALD LOWE, JR., M.D., Clinical Instructor in Ophthalmology JOHN M. OMOHUNDRO III, M.D., Clinical Instructor in Ophthalmology J. RALPH RICE, M.D., Clinical Instructor in Ophthalmology CHARLIE R. SMITH, M.D., Clinical Instructor in Ophthalmology

THE Department of Ophthalmology provides second-year students an introduction to ophthalmology and the methodology of clinical science. The department also instructs third-year students, providing them with some clinical exposure in ophthalmology. An elective course available in both the second and third years consists of lectures on the basic and clinical aspects of ophthalmology, and an elective fourth-year clerkship and clinic provide intensive clinical experience.

### Required Courses

501. Methods in Clinical Science: Introduction to Ophthalmology. Second year. This interdepartmental core curriculum is designed to acquaint the students with the techniques, approach and methods of clinical science. Two periods of two hours are devoted to didactic lectures on diagnostic lechniques and instrumentation used routinely by ophthalmologists. The class then is divided into small tutorial groups and each student has exposure to a faculty member for a one and one-half hour period for detailed instruction in the use of the direct ophthalmoscope. Dr. Elliott and Staff.

502. Ophthalmology Clinical Clerkship. Third year. During the third year each student will be assigned to ophthalmology for one week. During this one week period the student is assigned to a resident full time and is responsible for patient work ups and presentation to the Chief of Service on Tuesday prior to surgery. The student gains operating room experience and receives lectures in the afternoon on prescribed topics. An examination is given at the completion of this rotation. This period of time is during the surgical sub-specialty rotation. Staff.



# Orthopedics and Rehabilitation

PAUL P. GRIFFIN, M.D., Professor of Orthopedics & Rehabilitation and Chairman of the Department

ARTHUR LEROY BROOKS, M.D., Professor of Orthopedics & Rehabilitation S. BENJAMIN FOWLER, M.D., Clinical Professor of Orthopedics & Rehabilitation

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

AUBREY J. HOUGH, JR., M.D., Associate Professor of Pathology; Associate Professor of Orthopedics & Rehabilitation

JEREMY J. KAYE, M.D., Asssociate Professor of Radiology; Associate Professor of Orthopedics & Rehabilitation RONALD E. ROSENTHAL, M.D., Associate Professor of Orthopedics & Rehabilitation; As-

sociate Professor of Anatomy

RICHARD G. SHIAVI, Ph.D., Associate Professor of Biomedical Engineering, School of Engineering; Assistant Professor of Orthopedics & Rehabilitation

GEORGE K. CARPENTER, M.D., Associate Clinical Professor of Orthopedic Surgery, Emeritus (Died 14 June 1978)

HARRY BUGEL, M.D., Assistant Professor of Orthopedics & Rehabilitation

NEIL EDWARD GREEN, M.D., Assistant Professor of Orthopedics & Rehabilitation

PAUL H. KING, Ph.D., Associate Professor of Mechanical Engineering & Biomedical Engineering, School of Engineering; Assistant Professor of Orthopedics & Rehabilitation (On leave 1978/79)

MICHAEL A. MILEK, M.D., Assistant Professor of Orthopedics & Rehabilitiation WILLIAM, G. SALE III, M.D., Assistant Professor of Orthopedics & Rehabilitation J.JEFFERSON ASHBY, M.D., Assistant Clinical Professor of Orthopedic Surgery, Emeritus ROBERT C. CODDINGTON, M.D., Assistant Clinical Professor of Orthopedics & Rehabilita-

DON L. EYLER, M.D., Assistant Clinical Professor of Orthopedics & Rehabilitation DONALD L. GAINES, M.D., Assistant Clinical Professor of Orthopedics & Rehabilitation ARNOLD HABER, JR., M.D., Assistant Clinical Professor of Orthopedics & Rehabilitation JERRY CHEEK HUNT, M.D., Assistant Clinical Professor of Orthopedics & Rehabilitation FRANK E. JONES, M.D., Assistant Clinical Professor of Orthopedics & Rehabilitation A BRANT LIPSCOMB, M.D., Assistant Clinical Professor of Orthopedics & Rehabilitation; Team Physician

ANDREW H. MILLER, M.D., Assistant Clinical Professor of Orthopedics & Rehabilitation THOMAS F. PARRISH, M.D., Assistant Clinical Professor of Orthopedics & Rehabilitation EUGENE M. REGEN, JR., M.D., Assistant Clinical Professor of Orthopedics & Rehabilitation OHN C. BROTHERS, M.D., Clinical Instructor in Orthopedics & Rehabilitation JOE G. BURD, M.D., Clinical Instructor in Orthopedics & Rehabilitation

GEORGE K. CARPENTER, JR., M.D., Clinical Instructor in Orthopedics & Rehabilitation WESLEY COKER, M.D., Clinical Instructor in Orthopedics & Rehabilitation

G. WILLIAM DAVIS, JR., M.D., Clinical Instructor in Orthopedics & Rehabilitation

MARK DOYNE, M.D., Clinical Instructor in Orthopedics & Rehabilitation

HAROLD A. FERGUSON, M.D., Clinical Instructor in Orthopedics & Rehabilitation WILLIAM M. GAVIGAN, M.D., Clinical Instructor in Orthopedics & Rehabilitation

DAVID W. GAW, M.D., Clinical Instructor in Orthopedics & Rehabilitation

CHARLES M. HAMILTON, M.D., Clinical Instructor in Orthopedics & Rehabilitation ROBERT K. JOHNSTON, M.D., Clinical Instructor in Orthopedics & Rehabilitation

DAVID S. JONES, M.D., Clinical Instructor in Orthopedics

<sup>JOHN</sup> W. LAMB, M.D., Clinical Instructor in Orthopedics & Rehabilitation

LAWRENCE P. LAUGHLIN, M.D., Clinical Instructor in Orthopedics & Rehabilitation JOHN C. McINNIS, M.D., Clinical Instructor in Orthopedics & Rehabilitation JOHN M. MILLER, M.D., Clinical Instructor in Orthopedics & Rehabilitation CHARLES G. NORTON, M.D., Clinical Instructor in Orthopedics & Rehabilitation BARRETT F. ROSEN, M.D., Clinical Instructor in Orthopedics & Rehabilitation ROBERT V. RUSSELL, M.D., Clinical Instructor in Orthopedics & Rehabilitation NORMAN L. SIMS, M.D., Clinical Instructor in Orthopedics & Rehabilitation ROBERT B. SNYDER, M.D., Clinical Instructor in Orthopedics & Rehabilitation ROBERT E. STEIN, M.D., Clinical Instructor in Orthopedics & Rehabilitation E. DEWEY THOMAS, M.D., Clinical Instructor in Orthopedics & Rehabilitation JOHN M. WAMPLER, M.D., Clinical Instructor in Orthopedics & Rehabilitation

THE Department of Orthopedics and Rehabilitation provides second-year students an introduction to orthopedic surgery in association with the methodology of clinical science. In the third year the department offers an introduction to clinical orthopedic surgery and some experience in an orthopedic inpatient service. Outpatient experience is offered to fourth-year students in coordination with the general surgery and other clinics. A course concerning emergency care of the injured is offered to fourth-year students as an elective. Elective specialty clinics are offered in the fourth year in such specialties as cerebral palsy, hand, and crippled children; and an elective fourth-year clerkship includes an intensive clinical experience in orthopedic surgery. An elective clerkship involving the joint activity between orthopedic surgery and other related departments is available to students at all levels. The department also offers an opportunity for fourth-year students to do research in orthopedic surgery.

#### **Required Courses**

501. Methods in Clinical Science: Introduction to Orthopedic Surgery. A series of lectures and demonstrations is presented in association with the course Methods in Clinical Science. 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. SPRING. Staff.

503. Orthopedic Inpatient Service. During the third year each student group will be

assigned to Orthopedic Surgery for two and one-half weeks. The two and one-half weeks will be spent with the students participating in ward patient care, clinic assignments operating room experience, and daily conference. Students will be given a listing of materials they are expected to learn. D'Ambrosia's textbook, *Musculoskeletal Disorders*, will be the standard text. *Staff*.

**504.** Orthopedic Outpatient Service. Outpatient experience in orthopedic surgery is coordinated with the general surgery and other clinics. (See Surgery 504.)

## Pathology

WILLIAM H. HARTMANN, M.D., Professor of Pathology and Chairman of the Department; Medical Director of the Program in Medical Technology

ROBERT D. COLLINS, M.D., Professor of Pathology WILLIAM A. GARDNER, M.D., Professor of Pathology

JACEK HAWIGER, M.D., D.M.Sc., Professor of Pathology; Professor of Medicine (On leave 1978/79)

LUBOMIR HNILICA, Ph.D., C.Sc., Mary Geddes Stahlman Professor of Cancer Research; Professor of Biochemistry; Professor of Pathology

ROBERT G. HORN, M.D., Professor of Pathology

VIRGIL S. LeQUIRE, M.D., Professor of Experimental Pathology; Professor of Anatomy FRED V. LUCAS, M.D., Professor of Pathology and Associate Dean; Medical Director, Vanderbilt Hospital

BARTON McSWAIN, M.D., Professor of Surgery; Professor of Surgical Pathology, Emeritus WILLIAM M. MITCHELL, M.D., Ph.D., Professor of Pathology

MARTIN G. NETSKY, M.D., Professor of Pathology

DAVID L. PAGE, M.D., Professor of Pathology

JOHN L. SHAPIRO, M.D., Professor of Pathology; Medical Director of the Program in Cytotechnology

HAROLD W. BROWN, Sc.D., M.D., D.P.H., L.H.D., L.L.D., Clinical Professor of Pathology FRANK C. WOMACK, M.D., Clinical Professor of Pathology

JAMES P. FIELDS, M.D., Associate Professor of Medicine; Associate Professor of Pathology

JOHN F. EDLAND, M.D., Associate Professor of Pathology

MARY E. GRAY, Ph.D., Associate Professor of Experimental Pathology

AUBREY J. HOUGH, JR., M.D., Associate Professor of Pathology; Associate Professor of Orthopedics & Rehabilitation

CHARLES H. WALLAS, M.D., Associate Professor of Pathology

RICHARD D. BUCHANAN, M.D., Associate Clinical Professor of Pathology

BERTRAM E. SPROFKIN, M.D., Clinical Professor of Neurology; Associate Clinical Professor of Neuropathology

JOHN BROWN THOMISON, M.D., Associate Clinical Professor of Pathology

ANH HUU DAO, M.D., Assistant Professor of Pathology

HUGH A. DAVIES, Ph.D., Assistant Professor of Pathology

SUSAN A. HALTER, M.D., Assistant Professor of Pathology

ALAN D. GLICK, M.D., Assistant Professor of Pathology

JAMES T. FORBES, Ph.D., Research Assistant Professor of Medicine; Research Assistant Professor of Pathology

MYRON HOLSCHER, D.V.M., Ph.D., Assistant Professor of Pathology

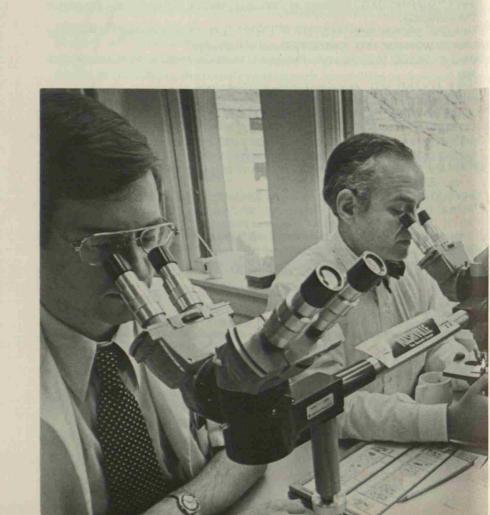
A. G. KASSELBERG, M.D., Assistant Professor of Pathology

PAULETTE G. LANKFORD, Ph.D., Assistant Professor of Pathology in Nursing, School of Nursing; Assistant Professor of Pathology; Associate Director of the Division of Allied Health Professions

KAMALA PANIKER, M.D., Assistant Professor of Pathology

N. VASUDEVA PANIKER, Ph.D., Assistant Professor of Pathology; Assistant Professor of Biochemistry

LOWELL W. ROGERS, M.D., Assistant Professor of Pathology; Assistant Professor of Obstetrics & Gynecology



LARRY L. SWIFT, Ph.D., Assistant Professor of Pathology SHELIA D. TIMMONS, B.S., Senior Associate in Pathology MAURICE M. ACREE, JR., M.D., Assistant Clinical Professor of Pathology HARRY G. BROWNE, M.D., Assistant Clinical Professor of Pathology RUFUS JACK FREEMAN, M.D., Assistant Clinical Professor of Pathology JERRY K. HUMPHREYS, M.D., Assistant Clinical Professor of Pathology LILIA D. MAURICIO, M.D., Assistant Clinical Professor of Pathology ADELISA PANLILIO, M.D., Assistant Clinical Professor of Pathology FRED W. RYDEN, Ph.D., M.D., Assistant Clinical Professor of Pathology CARLA M. DAVIS, M.D., Instructor in Pathology MICHAEL A. HARALSON, Ph.D., Instructor in Pathology HARRIET G. JACOBS, Ph.D., Instructor in Pathology RICHARD L. JOHNSON, M.D., Instructor in Pathology GARY NIBLACK, Ph.D., Instructor in Pathology L. DOUGLAS RICHARDSON, M.D., Instructor in Pathology SHIRLEY SCHUFFMAN, B.A., Instructor in Pathology MARIE TALLMAN WASSON, B.S., Instructor in Pathology RICHARD OLDHAM, M.D., Clinical Instructor in Pathology ROBERT W. WAHL, M.D., Clinical Instructor in Pathology HUZOOR-AKBAR, Ph.D., Research Associate in Pathology MAURICE H. HAUGH, Research Associate in Pathology SHIGEKAZU OHARA, M.D., Research Associate in Pathology

THE Department of Pathology offers instruction in the study of the pathogenesis of disease and the structural and functional alterations which result from disease, including the natural history of these changes. The elective program includes lecture and/or laboratory experiences and research programs.

Lecture and/or laboratory electives include such subject areas as: the basic concepts of cancer, neuropathology, post-mortem material, neuropathology case presentations, neuropathology and its clinical correlation, reviews of current autopsy cases, gynecologic pathology, clinical pathology, clinical aspects of anatomic pathology, renal biopsy pathology, and hematopathology. A number of clerkships, offered as electives for third- and fourth-year students, provide experiences in autopsy pathology, surgical pathology, and pathology specialty areas.

Research fellowships are available to fourth-year students as electives and include a fellowship in pathology with a choice of research problems and a fellowship in electron microscopy.

### Required Course

**501. General and Special Pathology.** General and special pathology presented by lectures, demonstrations, discussions,

and laboratory work. Gross and microscopic lesions characteristic of various diseases are studied and correlated. [10] *Dr. Horn.* 

### **Pediatrics**

DAVID T. KARZON, M.D., Professor of Pediatrics and Chairman of the Department RANDOLPH BATSON, M.D., Professor of Pediatrics (On leave)

IAN M. BURR, M.D., Professor of Pediatrics; Assistant Professor of Physiology

AMOS CHRISTIE, M.D., Professor of Pediatrics, Emeritus

GERALD M. FENICHEL, M.D., Professor of Neurology and Chairman of the Department, Professor of Pediatrics; Director of the Neuromuscular Disease Research Center

THOMAS P. GRAHAM, JR., M.D., Professor of Pediatrics

JOHN LUKENS, M.D., Professor of Pediatrics

JAMES A. O'NEILL, JR., M.D., Professor of Pediatric Surgery and Chairman of the Department; Professor of Pediatrics

SARAH H. SELL, M.D., Professor of Pediatrics, Emerita

MILDRED STAHLMAN, M.D., Professor of Pediatrics; Director of the Neonatal Lung Center

ERIC MARTIN CHAZEN, M.D., Clinical Professor of Pediatrics

WILLIAM M. DOAK, M.D., Clinical Professor of Pediatrics

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

WILLIAM A. ALTEMEIER III, M.D., Associate Professor of Pediatrics

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

ERIC ENGEL, M.D., Professor of Medicine and Head of the Division of Genetics; Associate Professor of Pediatrics; Director of the Genetics Center (On leave spring semester)

PEGGY FERRY, M.D., Associate Professor of Pediatrics; Associate Professor of Neurology HARRY L. GREENE, M.D., Associate Professor of Pediatrics; Assistant Professor of Biochemistry

LUTHER A. BEAZLEY, M.D., Associate Clinical Professor of Pediatrics

EUGENE L. BISHOP, JR., M.D., Associate Clinical Professor of Pediatrics

LEONARD J. KOENIG, M.D., Associate Clinical Professor of Pediatrics

JOSEPH F. LENTZ, M.D., Associate Clinical Professor of Pediatrics

DAN S. SANDERS, JR., M.D., Associate Clinical Professor of Pediatrics

CHARLES GORDON RENNICK SELL, M.D., B.Chir., D.C.H., Associate Clinical Professor of Pediatrics

JOE M. STRAYHORN, M.D., Associate Clinical Professor of Pediatrics DAVID D. THOMBS, M.D., Associate Clinical Professor of Pediatrics

THOMAS S. WEAVER, M.D., Associate Clinical Professor of Pediatrics (Died 30 January 1978)

ARVILLE V. WHEELER, M.D., Associate Clinical Professor of Pediatrics

ROBERT C. BOERTH, M.D., Ph.D., Associate Professor of Pediatrics; Associate Professor of Pharmacology

ROBERT J. BOUCEK JR., M.D., Assistant Professor of Pediatrics; Assistant Professor of Biochemistry

VICTOR BRAREN, M.D., Assistant Professor of Urology; Assistant Professor of Pediatrics ROBERT B. COTTON, M.D., Assistant Professor of Pediatrics

JOHN W. GREENE, M.D., Assistant Professor of Pediatrics

RICHARD M. HELLER, M.D., Associate Professor of Radiology; Assistant Professor of Pediatrics

ANTHONY W. KILROY, M.D., Assistant Professor of Neurology; Assistant Professor of Pediatrics

DANIEL P. LINDSTROM, Ph.D., Research Assistant Professor of Pediatrics

ROBERT C. MacDONELL, M.D., Assistant Professor of Medicine; Assistant Professor of Pediatrics

PETER F. NORLIN, Ph.D., Assistant Professor of Pediatrics (Speech Pathology); Assistant Professor of Hearing & Speech Sciences

SUSAN M. O'CONNOR, M.D., Assistant Professor of Pediatrics

ELLEN PERRIN, M.D., Assistant Professor of Pediatrics

JAMES M. PERRIN, M.D., Assistant Professor of Pediatrics and Medical Director of the Primary Care Center

JAMES S. ROLOFF, M.D., Assistant Professor of Pediatrics

JAYANT P. SHENAI, M.B., B.S., M.D., Assistant Professor of Pediatrics

EPHRAIM SLONIM, M.B., B.S., Instructor in Pediatrics

HAKAN SUNDELL, M.D., Assistant Professor of Pediatrics

THOMAS WHITWORTH, M.D., Assistant Professor of Pediatrics

PETER F. WRIGHT, M.D., Assistant Professor of Pediatrics; Assistant Professor of Microbiology

HEARN G. BRADLEY, M.D., Assistant Clinical Professor of Pediatrics, Emeritus

SAM W. CARNEY, JR., M.D., Assistant Clinical Professor of Pediatrics

NORMAN M. CASSELL, M.D., Assistant Clinical Professor of Pediatrics

RAY L. DUBUISSON, M.D., Assistant Clinical Professor of Pediatrics

JOHN P. FIELDS, M.D., Assistant Clinical Professor of Pediatrics

WILLIAM F. FLEET, M.D., Assistant Clinical Professor of Pediatrics

RALPH GREENBAUM, M.D., Assistant Clinical Professor of Pediatrics

CHARLES HIRSHBERG, M.D., Assistant Clinical Professor of Pediatrics

HOSSEIN MASSOUD, M.D., Assistant Clinical Professor of Pediatrics

JOHN R. MORGAN, M.D., Assistant Clinical Professor of Pediatrics

JAMES S. PRICE, M.D., Assistant Clinical Professor of Pediatrics

HARVEY SPARK, M.D., Assistant Clinical Professor of Pediatrics

JOSEPH STERANKA, M.D., Assistant Clinical Professor of Pediatrics RICHARD P. TABER, M.D., Assistant Clinical Professor of Pediatrics

DOROTHY JEAN TURNER, M.D., Assistant Clinical Professor of Pediatrics; Assistant Clinical Professor of Preventive Medicine

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

G. WALLACE WOOD, M.D., Assistant Clinical Professor of Pediatrics

THOMAS B. ZERFOSS, JR., M.D., Assistant Clinical Professor of Pediatrics

C. MICHAEL BOWMAN, M.D., Instructor in Pediatrics

HELEN B. COZY, Ph.D., Instructor in Pediatrics

JAN CULBERTSON, Ph.D., Instructor in Pediatrics (Psychology)

ELIZABETH J. EVANS, B.S.N., Assistant in Pediatrics

RITA A. FIE, M.S.S.W., Instructor in Pediatrics (Social Work)

THOMAS C. RHEA, JR., Ph.D., Instructor in Pediatrics (Biophysics)

PATRICIA VOLPE, M.A., Assistant in Pediatrics

LINDSAY K. BISHOP, M.D., Clinical Instructor in Pediatrics

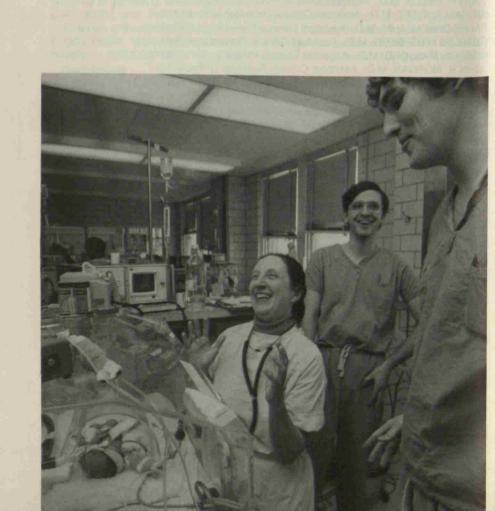
ROBERT C. BONE, M.D., Clinical Instructor in Surgery, Clinical Instructor in Pediatrics

ROBERT EDWARD BURR, M.D., Clinical Instructor in Pediatrics

E. THOMAS CARNEY, D.D.S., Clinical Professor of Dentistry; Clinical Instructor in Pediatrics

PAUL C. W. GOMEZ, M.B., B.S., Clinical Instructor in Pediatrics

ROLAND GRAY, M.D., Clinical Instructor in Pediatrics



DOUGLAS C. HENRY, M.D., Clinical Instructor in Pediatrics

ROBERT H. HUTCHESON, JR., M.D., M.P.H., Clinical Instructor in Pediatrics; Clinical Instructor in Preventive Medicine & Public Health

WILLIAM C. KING, D.M.D., Clinical Instructor in Dentistry; Clinical Instructor in Pediatrics WILLIAM R. LONG, M.D., Clinical Instructor in Pediatrics

SOL L. LOWENSTEIN, M.D., Clinical Instructor in Pediatrics, Emeritus

ROBERT E. MALLARD, M.D., Clinical Instructor in Pediatrics

GEORGE C. MARTIN, M.D., Clinical Instructor in Pediatrics

SUSAN J. McLEAN, M.D., Clinical Instructor in Pediatrics

JOE MOSS, JR., M.D., Clinical Instructor in Pediatrics

DEWEY G. NEMEC, M.D., Clinical Instructor in Pediatrics

L. WILLARD PARKER, D.M.D., Clinical Instructor in Dentistry; Clinical Instructor in Pediatrics

KAREN RHEA, M.D., Clinical Instructor in Pediatrics

ROBERT S. SANDERS, M.D., Clinical Instructor in Pediatrics

E. CONRAD SHACKLEFORD, JR., M.D., Clinical Instructor in Pediatrics

C. A. STILWELL, M.D., Clinical Instructor in Pediatrics

BERNARD A. WIGGINS, M.D., Clinical Instructor in Pediatrics

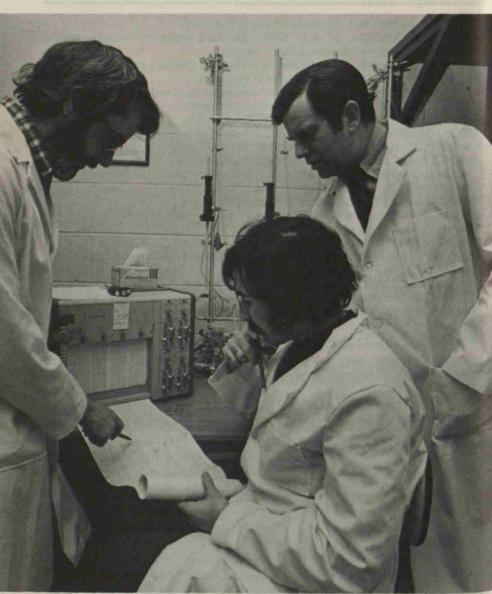
JAMES M. BATEMAN, Ph.D., Research Instructor in Medicine (Biomedical Engineering); Research Associate in Pediatrics

JAMES H. NELSON, M.S., Research Associate in Pediatrics NOBUHIKO OKABE, M.D., Research Associate in Pediatrics ROBERT A. SHARP, M.S., Research Associate in Pediatrics

THE Department of Pediatrics provides second-year students an introduction to pediatrics as part of the methods in clinical science course. Third-year students participate in a clinical experience on the pediatric wards and attend a series of clinical lectures and demonstrations. Fourth-year students participate in an outpatient service.

Electives available to students at various levels include such courses as: signposts of human growth and development; pediatric pathophysiology; pathogenetic mechanisms in clinical infectious disease; pediatric ward rounds; and introduction to clinical pediatrics; nutrition rounds; the fundamentals of human development; methods of delivering pediatric medical care in rural areas; and urban health problems.

Pediatric specialty clinics available to fourth-year students include: human development, allergy, cardiology, neurology, pulmonary, endocrinology, renal, diabetic endocrine, general pediatrics, and pediatric vaccine. Fourth-year students may participate in several clerkship electives which include: ward experience at Vanderbilt Hospital and Nashville General Hospital, child development, rural health, ambulatory pediatrics, pediatric cardiology, pediatric endocrinology, pediatric hematology, and pediatric gastroenterology and nutrition. Preceptorships are available to fourth-year students as electives. Research electives in the fourth year include research programs in newborn physiology, infectious diseases, and the delivery of community medicine.



Results of drug trials are examined by students in the pharmacology laboratory.

#### Required Courses

501. Methods in Clinical Science: Introduction to Pediatrics. As an integral part of the course Methods in Clinical Science, a series of lectures will be given in the second year. These lectures will prepare the students for their clinical experiences in the third year. Additionally, students are rotated through the department in small tutorial groups. SPRING. Dr. Karzon and Staff.

502. Clinical Clerkship. One-eighth of the third-year class is assigned to the pediatric wards for five weeks. Students participate in all phases of diagnosis and treatment of a wide variety of illnesses of children and infants. A portion of the clerkship includes work with selected infants in the premature and intensive care nurseries. Bedside teaching rounds on the wards and nursery

and seminars are held daily. Dr. Karzon and Staff.

**503.** Pediatric Outpatient Service. During the senior year each student spends eighteen half-days in the pediatric outpatient service at Vanderbilt and Nashville General Hospitals. Students have major responsibility for initial evaluation and management of acute and chronic childhood disease. Supervision is provided by full-time and clinical faculty. *Dr. Donald and Dr. Altemeier.* 

**504.** Clinical Lectures and Demonstrations. A series of eighteen amphitheater clinics held biweekly throughout the year. Cases and discussions on diseases of importance in pediatrics are presented. *Dr. Karzon and Staff.* 

### Pharmacology

JOEL G. HARDMAN, Ph.D., Professor of Pharmacology and Chairman of the Department ALLAN D. BASS, M.D., Professor of Pharmacology, Emeritus

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

JOHN E. CHAPMAN, M.D., Professor of Pharmacology; Professor of Medical Administration and Chairman of the Division of Medical Administration; Dean of the School of Medicine WOLF-DIETRICH DETTBARN, M.D., Professor of Pharmacology

JOHN A. OATES, M.D., Professor of Pharmacology; Joe and Morris Werthan Professor of Investigative Medicine; Director of the Research Center for Pharmacology and Drug Toxicity

B. V. RAMA SASTRY, D.Sc., Ph.D., Professor of Pharmacology (On leave fall semester) GUNTER SCHULTZ, M.D., Visiting Professor of Pharmacology

DAVID G. SHAND, Ph.D., M.B., B.S., Professor of Pharmacology; Professor of Medicine; Director of the Specialized Center of Research in Hypertension

FRIDOLIN SULSER, M.D., Professor of Pharmacology and Director of the Psychopharmacology Research Center

GRANT R. WILKINSON, Ph.D., Professor of Pharmacology

M. LAWRENCE BERMAN, Ph.D., M.D., Professor of Anesthesiology; Associate Professor of Pharmacology

ROBERT C. BOERTH, M.D., Ph.D., Associate Professor of Pediatrics; Associate Professor of Pharmacology

ROBERT A. BRANCH, M.B., Ch.B., Associate Professor of Medicine; Associate Professor of Pharmacology

JAMES V. DINGELL, Ph.D., Associate Professor of Pharmacology (On leave 1978/79)

DAVID L. GARBERS, Ph.D., Associate Professor of Pharmacology; Associate Professor of Physiology; Investigator, Howard Hughes Medical Institute

RAYMOND D. HARBISON, Ph.D., Associate Professor of Pharmacology; Assistant Professor of Biochemistry; Senior Research Associate, Institute for Public Policy Studies

RONALD T. KUCZENSKI, Ph.D., Associate Professor of Pharmacology; Assistant Professor of Biochemistry

ERWIN J. LANDON, M.D., Ph.D., Associate Professor of Pharmacology

OAKLEY S. RAY, Ph.D., Professor of Psychology, College of Arts & Science; Associate Professor of Pharmacology

PETER W. REED, Ph.D., Associate Professor of Pharmacology

ELAINE SANDERS-BUSH, Ph.D., Associate Professor of Pharmacology

DENNIS E. SCHMIDT, Ph.D., Associate Professor of Pharmacology

BRIAN SWEETMAN, Ph.D., Research Associate Professor of Pharmacology

J. THROCK WATSON, Ph.D., Associate Professor of Pharmacology

JACK N. WELLS, Ph.D., Associate Professor of Pharmacology

ROBERT J. BARRETT, Ph.D., Associate Professor of Psychology, College of Arts & Science; Assistant Professor of Pharmacology

DANIEL M. BUXBAUM, Ph.D., Assistant Professor of Pharmacology; Director of the Division of Educational Operations

JOHN F. GERKINS, Ph.D., Research Assistant Professor of Pharmacology

KENNETH R. HANDE, M.D., Assistant Professor of Medicine; Assistant Professor of Pharmacology

GEORGE I. HENDERSON, Ph.D., Research Assistant Professor of Pharmacology

WALTER C. HUBBARD, Ph.D., Research Assistant Professor of Pharmacology

NANCY LEITH, Ph.D., Assistant Professor of Pharmacology; Assistant Professor of Psychology, College of Arts & Science

LYMAN J. ROBERTS, M.D., Assistant Professor of Pharmacology; Assistant Professor of Medicine

DAVID H. ROBERTSON, JR., M.D., Assistant Professor of Medicine; Assistant Professor of Pharmacology

DOUGLASS TABER, Ph.D., Assistant Professor of Pharmacology

LYNN WECKER, Ph.D., Research Assistant Professor of Pharmacology

A. RICHARD WHORTON, Ph.D., Research Assistant Professor of Pharmacology

ALASTAIR J. J. WOOD, M.D., Assistant Professor of Medicine; Assistant Professor of Pharmacology

RAYMOND WOOSLEY, Ph.D., M.D., Assistant Professor of Medicine; Assistant Professor of Pharmacology

RONALD KEITH CARR, M.S., Research Instructor in Pharmacology RICHARD P. KOSHAKJI, Ph.D., Research Instructor in Pharmacology GEORGE L. KRAMER, JR., Ph.D., Research Instructor in Pharmacology JEFFREY LAZAR, M.D., Instructor in Pharmacology; Instructor in Medicine LARRY STERANKA, Ph.D., Research Instructor in Pharmacology KENNETH AULSEBROOK, Ph.D., Research Associate in Pharmacology ALAN R. BRASH, Ph.D., Research Associate in Pharmacology DAVID GILLESPIE, M.S., Research Associate in Pharmacology DANIEL GOODMAN, Ph.D., Research Associate in Pharmacology

ROSS V. HYNE, Ph.D., Research Associate in Pharmacology

ROBERT C. JAMES, Ph.D., Research Associate in Pharmacology THERESE MICHON KERAVIS, Ph.D., Research Associate in Pharmacology

HOWARD R. KNAPP, M.D., Research Associate in Pharmacology SUZANNE LAYCHOCK, Ph.D., Research Associate in Pharmacology

HAL MANIER, M.S., Research Associate in Pharmacology

RADHAKANTA MISHRA, Ph.D., Research Associate in Pharmacology PHILIP MOBLEY, Ph.D., Research Associate in Pharmacology JOHN NADEAU, M.D., Research Associate in Pharmacology PHILIP A. ROUTLEDGE, M.B.,B.S., Research Associate in Pharmacology PETER G. WELLS, Ph.D., Research Associate in Pharmacology

THE Department of Pharmacology is responsible for the instruction of second-year students in the reactions of the human organism to chemical substances. Electives available to second-, third-, and fourth-year students include: pharmacology of the peripheral nervous system, psychopharmacology, endocrine pharmacology, and the pharmacology of anesthesia. A clerkship in clinical pharmacology is offered in the fourth year. Seminars, research programs, and special course work assignments are also available to fourth-year students as electives.

#### Required Course

501. 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. Six lectures a week and five hours of laboratory or conference work a week. SPRING. Dr. Hardman and Staff.

# Physiology

CHARLES RAWLINSON PARK, M.D., Professor of Physiology and Chairman of the Department; Director, Howard Hughes Medical Institute–Vanderbilt

JOHN H. EXTON, M.B., Ch.B., Ph.D., Professor of Physiology; Director, Howard Hughes Medical Institute Laboratories for the Study of Metabolic Disorders

TETSURO KONO, Ph.D., Professor of Physiology

H. C. MENG, M.D., Ph.D., Professor of Physiology; Professor of Surgery

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

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

DAVID M. REGEN, Ph.D., Professor of Physiology

J. D. CORBIN, Ph.D., Associate Professor of Physiology; Investigator, Howard Hughes Medical Institute

OSCAR B. CROFFORD, JR., M.D., Professor of Medicine, Addison Scoville Chair in Diabetes & Metabolism and Head of the Division of Diabetes & Metabolism; Associate Professor of Physiology; Director of the Diabetes Endocrinology Center

ALAN D. CHERRINGTON, Ph.D., Associate Professor of Physiology; Assistant Professor of Medicine

Physiology; Investigator, Howard Hughes Medical Institute
DAVID N. ORTH, M.D., Professor of Medicine; Associate Professor of Physiology
THOMAS R. SODERLING, Ph.D., Associate Professor of Physiology; Investigator, Howard
Hughes Medical Institute
PETER F. BLACKMORE, Ph.D., Assistant Professor of Physiology
IAN M. BURR, M.D., Professor of Pediatrics; Assistant Professor of Physiology
THOMAS H. CLAUS, Ph.D., Assistant Professor of Physiology
THOMAS H. CLAUS, Ph.D., Assistant Professor of Physiology

DAVID L. GARBERS, Ph.D., Associate Professor of Pharmacology; Associate Professor of

THOMAS H. CLAUS, Ph.D., Assistant Professor of Physiology SHARON FRANCIS, Ph.D., Assistant Professor of Physiology ROGER A. JOHNSON, Ph.D., Assistant Professor of Physiology STANLEY L. KEELY, Ph.D., Assistant Professor of Physiology BALWANT S. KHATRA, Ph.D., Assistant Professor of Physiology

THOMAS M. LINCOLN, Ph.D., Assistant Professor of Physiology SIMON PILKIS, Ph.D., M.D., Assistant Professor of Physiology; Investigator, Howard Hughes

Medical Institute

LINCOLN SMITH WILKERSON, Ph.D., Research Instructor in Physiology MADHU BALA ANAND, Ph.D., Research Associate in Physiology ALBERT H. BETH, Ph.D., Research Associate in Physiology JEAN-LOUIS CHIASSON, M.D., Research Associate in Physiology MELISSA R. DIETZ, Ph.D., Research Associate in Physiology M. RAAFAT H. EL-MAGHRABI, Ph.D., Research Associate in Physiology F. MAHMOUD EL-REFAI, Ph.D., Research Associate in Physiology DAVID FLOCKHART, Ph.D., Research Associate in Physiology YUTARO HAYASHI, Ph.D., Research Associate in Physiology MARY M. JACKOWSKI, Ph.D., Research Associate in Physiology UMAKANT WAMAN KENKARE, Ph.D., Research Associate in Physiology HIDEICHI MAKINO, M.D., Research Associate in Physiology RAY PERKINS, JR., Ph.D., Research Associate in Physiology STEPHEN RANNELS, Ph.D., Research Associate in Physiology WAYNE P. SCHRAW, Ph.D., Research Associate in Physiology ASHOK SRIVASTAVA, Ph.D., Research Associate in Physiology KURT STEINER, Ph.D., Research Associate in Physiology KAZUO SUZUKI, M.D., Research Associate in Physiology TIMOTHY F. WALSETH, Ph.D., Research Associate in Physiology

THE Department of Physiology instructs first-year students in the essentials of physiological processes related to organs, tissues, and cells. Electives available to first-, second-, and fourth-year students include: topics in general physiology; lipid chemistry, metabolism, and transport; and advanced physiology. Opportunities to participate in research activities are available to fourth-year students as electives.

#### Required Course

**501. 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. SPRING. [7] Dr. C. Park.

# Preventive Medicine and Public Health

ROBERT W. QUINN, M.D., C.M., Professor of Preventive & Social Medicine, Emeritus and Interim Chairman of the Department of Preventive Medicine & Public Health

NICHOLAS HOBBS, Ph.D., D.Sc., D.Litt., Professor of Psychology, College of Arts & Science; Professor of Preventive Medicine & Public Health; Senior Research Associate, Institute for Public Policy Studies

LEWIS B. LEFKOWITZ, JR., M.D., Professor of Preventive Medicine & Public Health; Assistant Professor of Medicine

VERNON E. WILSON, M.D., Professor of Medical Administration; Professor of Preventive Medicine & Public Health; Vice-President for Medical Affairs

LESLIE A. FALK, D.Phil., M.D., Clinical Professor of Preventive Medicine & Public Health WILLIAM SCHAFFNER, M.D., Associate Professor of Medicine; Associate Professor of Preventive Medicine & Public Health

EUGENE W. FOWINKLE, M.D., M.P.H., Associate Clinical Professor of Preventive Medicine & Public Health

WILLIAM B. NESER, D.P.H., Associate Clinical Professor of Preventive Medicine & Public Health

RICHARD A. COUTO, Ph.D., Assistant Professor of Preventive Medicine & Public Health; Assistant Professor of Political Science, College of Arts & Science; Director of the Center for Health Services; Senior Research Associate, Institute for Public Policy Studies

W. CARTER WILLIAMS, M.D., M.P.H., Assistant Professor of Preventive Medicine & Public Health, Emeritus

JOSEPH M. BISTOWISH, M.D., M.P.H., Assistant Clinical Professor of Preventive Medicine & Public Health

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

DOROTHY JEAN TURNER, M.D., Assistant Clinical Professor of Pediatrics; Assistant Clinical Professor of Preventive Medicine & Public Health

STANLEY J. BODNER, M.D., Clinical Instructor in Medicine; Clinical Instructor in Preventive Medicine

GRANT C. CLARK, M.D., Clinical Instructor in Preventive Medicine & Public Health JOHN S. DERRYBERRY, M.D., Clinical Instructor in Preventive Medicine & Public Health JOE C. EADES, M.S.S.W, Ph.D., Clinical Instructor in Preventive Medicine & Public Health JOSEPH H. FELDHAUS, M.D., Clinical Instructor in Preventive Medicine & Public Health BERTIE L. HOLLADAY, M.D., Clinical Instructor in Preventive Medicine & Public Health ROBERT H. HUTCHESON, JR., M.D., M.P.H., Clinical Instructor in Pediatrics; Clinical Instructor in Preventive Medicine & Public Health

GRACE E. MOULDER, M.D., Clinical Instructor in Preventive Medicine & Public Health K. J. PHELPS, M.D., Clinical Instructor in Preventive Medicine & Public Health JESSE LEE WALKER, M.D., Clinical Instructor in Preventive Medicine & Public Health

#### **Biostatistics**

CHARLES F. FEDERSPIEL, Ph.D., Professor of Biostatistics and Director of the Division

WILLIAM K. VAUGHN, Ph.D., Associate Professor of Biostatistics

WILLIAM D. DUPONT, Ph.D., Assistant Professor of Biostatistics

WILLIAM F. GRAMS, Ph.D., Adjunct Assistant Professor of Biostatistics

WAYNE A. RAY, M.S., Research Instructor in Biostatistics

THE Department of Preventive Medicine and Public Health offers second-year courses in the basic fundamentals of epidemiology, the epidemiologic principles of common problems in health and disease, medical statistics, and the basic principles of public health and preventive medicine. Electives available to students at various levels include: medicine in families and the community; applied epidemiology; biometry problems and experiences of aging; population problems and family planning; quantitative epidemiology; clinical trials and medical surveys; sampling methods; bioassay; interdisciplinary seminar on problems in health care delivery; and special projects in public health. A first-year field experience provides an introduction to comprehensive medical care. A preceptorship in family medicine, a seminar in public health, and clerkships in applied public health and family and community medicine are also available to second-, third-, and fourth-year students as electives.

#### **Required Courses**

501. Epidemiology and Health Services. The basic principles of the organization, distribution, and content of the health services are discussed. The emphasis is on historical background; concept of need, demand, and supply; technologic innovation; costs; sociopolitical factors; and professional organization. The remaining sessions deal with the basic fundamentals of epidemiology, the epidemiologic principles of common problems in health and disease. The objective is to enable students to consider individual patients and their problems in the larger context of their environment. Two hours per week, FALL, Dr. Lefkowitz.

502. Medical Statistics. The first two sessions are devoted to an overview of descriptive statistics in medicine with emphasis on definitions of morbidity and mortality rates and the statistical adjustments to standardize such rates. The remainder of the course is devoted to the tools of statistical inference most often used in medical research. For those students who have had a previous course in statistics or who wish to do intensive self study, there are a series of eight review lectures followed by an optional examination, satisfactory performance on which satisfies the requirements for the course. Regular weekly one hour lectures closely follow and supplement the material contained in Colton's textbook, Statistics in Medicine. SPRING. Dr. Federspiel and Dr. Dupont.

503. Principles of Public Health and Preventive Medicine. A course of lectures intended to provide second-year students with the preventive point of view in the practice of medicine, to make them aware of the major health problems and of the changing nature of major health problems, and to acquaint them 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, and cancer. 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. Twenty-one hours. SPRING. Dr. Quinn and Staff.

## Psychiatry

MARC H. HOLLENDER, M.D., Professor of Psychiatry and Chairman of the Department;
Director of the Mental Health Center

THOMAS A. BAN, M.D., Professor of Psychiatry

PIETRO CASTELNUOVO-TEDESCO, M.D., James G. Blakemore Professor of Psychiatry

CHARLES V. FORD, M.D., Professor of Psychiatry

CHARLES E. GOSHEN, M.D., Professor of Engineering Management, School of Engineering; Professor of Psychiatry

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

WILLIAM F. ORR, M.D., Professor of Psychiatry, Emeritus

HOWARD B. ROBACK, Ph.D., Professor of Psychiatry (Clinical Psychology); Associate Professor of Psychology, College of Arts & Science

WARREN W. WEBB, Ph.D., Professor of Psychology, College of Arts & Science; Professor of Psychiatry (Clinical Psychology)

CHARLES E. WELLS, M.D., Professor of Psychiatry; Professor of Neurology

OTTO BILLIG, M.D., Clinical Professor of Psychiatry, Emeritus

C. DENTON BUCHANAN, Ph.D., Associate Professor of Psychiatry (Clinical Psychology)

J. EMMETT DOZIER, JR., M.D., Associate Professor of Psychiatry and Director of the Division of Child Psychiatry

WILLIAM GUY, Ph.D., Associate Professor of Psychiatry (Psychology)

EMBRY A. McKEE, M.D., Associate Professor of Psychiatry

C. RICHARD TREADWAY, M.D., Associate Professor of Medical Administration; Associate Professor of Psychiatry; Associate Vice-President for Medical Affairs, Office of Program Planning & Development

ROBERT W. ADAMS, JR., M.D., Associate Clinical Professor of Psychiatry

DAVID BARTON, M.D., Associate Clinical Professor of Psychiatry

CHARLES CORBIN, JR., M.D., Associate Clinical Professor of Psychiatry H. JAMES CRECRAFT, M.D., Associate Clinical Professor of Psychiatry

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

ROBERT M. REED, M.D., Associate Clinical Professor of Psychiatry

CHARLES B. SMITH, M.D., Associate Clinical Professor of Psychiatry

FRANK W. STEVENS, M.D., Associate Clinical Professor of Psychiatry
WILLIAM R.C. STEWART, IR. M.D., Associate Clinical Professor of Psychiatry (Died

WILLIAM R. C. STEWART, JR., M.D., Associate Clinical Professor of Psychiatry (Died 24 July 1978)

RALPH I. BARR, M.D., Assistant Professor of Psychiatry

ROBERT F. BAXTER, M.D., Assistant Professor of Psychiatry

STUART A. BERNEY, Ph.D., Research Assistant Professor of Psychiatry

JAMES O. BRANNEN, M.D., Assistant Professor of Psychiatry

THOMAS W. CAMPBELL, M.D., Assistant Professor of Psychiatry

MILES K. CROWDER, M.D., Assistant Professor of Psychiatry

BARBARA A. FITZGERALD, M.D., Assistant Professor of Psychiatry

FAY M. GASKINS, M.D., Assistant Professor of Psychiatry and University Psychiatrist

JAMES H. HAMILTON, M.D., Assistant Professor of Psychiatry

E. MITCHELL HENDRIX, Ph.D., Assistant Professor of Psychiatry (Psychology)

RONALD KOURANY, M.D., Assistant Professor of Psychiatry

JOSEPH D. LaBARBERA, Ph.D., Assistant Professor of Psychiatry

SUSAN LEWIS, Ph.D., Assistant Professor of Psychiatry (Clinical Psychology); Assistant Professor of Psychology, College of Arts & Science

THOMAS P. LOGAN, M.D., Assistant Professor of Psychiatry JOSEPH P. McEVOY, M.D., Assistant Professor of Psychiatry JAMES E. MARTIN, M.S.S.W., Assistant Professor of Psychiatry (Social Work) WILLIAM M. PETRIE, M.D., Assistant Professor of Psychiatry PAULINE L. RABIN, M.B., B.Ch., Assistant Professor of Psychiatry MOHAMED A. RAGHEB, M.B., B.S., Assistant Professor of Psychiatry STEWART A. SHEVITZ, M.D., Assistant Professor of Psychiatry ELISABETH VORBUSCH, M.D., Assistant Professor of Psychiatry JANE R. WEINBERG, M.D., Assistant Professor of Psychiatry LaVERGNE WILLIAMS, M.S.S.W, Assistant Professor of Psychiatric Social Work, Emerita WILLIAM H. WILSON, Ph.D., Assistant Professor of Psychiatry (Clinical Psychology) GEORGINA ABISELLAN, M.D., Assistant Clinical Professor of Psychiatry HARVEY ASHER, M.D., Assistant Clinical Professor of Psychiatry HENRY B. BRACKIN, JR., M.D., Assistant Clinical Professor of Psychiatry MICHAEL L. CAMPBELL, Ph.D., Assistant Clinical Professor of Psychiatry (Clinical Psychology) WILLIAM E. COOPWOOD, M.D., Assistant Clinical Professor of Psychiatry JAMES R. FARRER, M.D., Assistant Clinical Professor of Psychiatry JOSEPH FISHBEIN, M.D., Assistant Clinical Professor of Psychiatry EDMON L. GREEN, M.D., Assistant Clinical Professor of Psychiatry FREDRICK T. HORTON, M.D., Assistant Clinical Professor of Psychiatry MAURICE HYMAN, M.D., Assistant Clinical Professor of Psychiatry HAROLD W. JORDAN, M.D., Assistant Clinical Professor of Psychiatry WILLIAM D. KENNER, M.D., Assistant Clinical Professor of Psychiatry MICHAEL J. KEYES, M.D., Assistant Clinical Professor of Psychiatry KENT KYGER, M.D., Assistant Clinical Professor of Psychiatry

ALBERT R. LAWSON, M.D., Assistant Clinical Professor of Psychiatry JAMES B. McGEHEE, M.D., Assistant Clinical Professor of Psychiatry LEONARD MORGAN, Ph.D., Assistant Clinical Professor of Psychiatry (Clinical Psychology) EARL H. NINOW, M.D., Assistant Clinical Professor of Psychiatry ROBERT N. REYNOLDS, M.D., Assistant Clinical Professor of Psychiatry FRANK W. STEVENS, JR., M.D., Assistant Clinical Professor of Psychiatry MELBOURNE A. WILLIAMS, M.D., Assistant Clinical Professor of Psychiatry NAT T. WINSTON, M.D., Assistant Clinical Professor of Psychiatry GUY ZIMMERMAN, M.D., Assistant Clinical Professor of Psychiatry LYNN MEADE THOMPSON, M.S.S.W., Instructor in Psychiatry (Social Work) JANET B. WATERMAN, M.A., Instructor in Psychiatry (Education) JOHN J. GRIFFIN, M.D., Clinical Instructor in Psychiatry EARL Q. PARROTT, M.D., Clinical Instructor in Psychiatry LOUIS SAMPSON, M.D., Clinical Instructor in Psychiatry WILLIAM F. SHERIDAN, JR., M.D., Clinical Instructor in Psychiatry HANS VORBUSCH, M.D., Clinical Instructor in Psychiatry DENNIS C. WORKMAN, M.D., Clinical Instructor in Psychiatry MARGARET G. EVANS, Ph.D., Lecturer in Psychoanalysis JOSEPHINE E. MURPHY, M.A., Lecturer in Psychiatry (Clinical Psychology) ALVIN B. ROSENBLOOM, M.D., Lecturer in Psychiatry AGNES SYLTE, R.N., Lecturer in Psychiatry

#### Human Behavior

VIRGINIA ABERNETHY, Ph.D., Associate Professor of Psychiatry (Anthropology) and Head of the Division of Human Behavior

JOHN E. PATE, Ed.D., Professor of Psychiatry (Educational Psychology)

RICHARD BRUEHL, Ph.D., Assistant Professor of Pastoral Theology & Counseling, Divinity School; Assistant Clinical Professor of Human Behavior

### Affiliated Faculty

FRIDOLIN SULSER, M.D., Professor of Pharmacology

KARL P. WARDEN, J.D., LL.M., Professor of Ław

ERLINE H. GORE, M.S.N., R.N., Associate Professor of Psychiatric Nursing, School of Nursing

HANS H. STRUPP, Ph.D., Distinguished Professor of Psychology

SUSAN VanGEE, M.S.N., Instructor in Nursing

THE Department of Psychiatry instructs second-year students in the diagnosis, etiology, and treatment of basic psychiatric disorders. The department also presents a series of lectures on human behavior and the practice of medicine to first-year students. In the third year, students participate in a clerkship studying various psychiatric problems in both inpatient and outpatient settings.

A number of elective courses offered at various levels include such topics as: dying, death, and bereavement; unsolved problems of law, medicine, and society; determinants of human behavior; sex counseling; population problems and family planning; human sexuality; medicine in families and the community; services and education programs for handicapped children; and school health programs. A number of clerkships, offered to fourth-year students as electives, provide intensive clinical experience in both inpatient and outpatient settings.

### Required Courses

501. Psychiatry. This course acquaints the second-year student with the diagnosis, etiology, and treatment of the basic psychiatric disorders. Case presentations are used to demonstrate the major disorders discussed in the lecture series. *Dr. Baxter and Staff.* 

503. Psychiatry Clerkship. A five-week block of time in which adults with various psychiatric problems are studied in inpatient and outpatient settings by third-year students. Patient care, ward rounds, confer-

ences, lectures, and demonstrations of psychiatric, psychological, and social work practices. Dr. Baxter, Dr. Hollender, Dr. Crowder, and Staff.

504. Human Behavior and the Practice of Medicine. First Year. This series of lectures and presentations provides a survey of the development and integration of the physical, psychological, and social determinants of human behavior. The achievement of health and emotional well-being through effective development and adaptation to en-

vironmental circumstances is emphasized in an attempt to present health and wellbeing as a state other than simply the absence of an identifiable disease. The course provides a framework for the consideration of psychosocial factors in the practice of medicine. FALL. *Dr. Baxter and Staff.* 

# Radiology and Radiological Sciences

A. EVERETTE JAMES, JR., Sc.M., M.D., J.D., Professor of Radiology and Chairman of the Department

JOSEPH H. ALLEN, JR., M.D., Professor of Radiology; Director of Neuroradiology

A. BERTRAND BRILL, M.D., Ph.D., Professor of Radiology and Associate Professor of Medicine; Associate Professor of Physics (College of Arts & Science); Associate Professor of Biomedical Engineering, (School of Engineering); Director of Radiological Sciences

HENRY P. PENDERGRASS, M.D., M.P.H., Professor of Radiology and Vice-Chairman of the Department; Medical Director of the Program in Radiologic Technology

EDWARD SIEGEL, Ph.D., Professor of Radiology

 A. JAMES GERLOCK, JR., M.D., Associate Professor of Radiology; Director of Angiography
 S. JULIAN GIBBS, D.D.S., Ph.D., Associate Professor of Radiology; Assistant Professor of Dentistry

JOHN J. GLANCY, M.D., Visiting Associate Professor of Radiology; Director of Chest Radiology

RICHARD M. HELLER, JR., M.D., Associate Professor of Radiology; Assistant Professor of Pediatrics; Director of Residency Training

JEREMY J. KAYE, M.D., Associate Professor of Radiology; Associate Professor of Orthopedics & Rehabilitation

RONALD R. PRICE, Ph.D., Associate Professor of Radiology; Director of Image Analysis GOPALA U. V. RAO, Sc.D., Associate Professor of Radiology; Director of Physics; Director of the Office of Radiation Safety

F. DAVID ROLLO, Ph.D., M.D., Associate Professor of Radiology; Director of Nuclear Medicine; Associate Director of Radiological Sciences

CLYDE W. SMITH, M.D., Associate Professor of Radiology; Director of the Cardiovascular Laboratory

JUAN J. TOUYA, JR., M.D., Ph.D., Associate Professor of Radiology THOMAS R. DUNCAN, M.D., Associate Clinical Professor of Radiology

JANET HUTCHESON, M.D., Associate Clinical Professor of Radiology

JAMES B. MILLIS, M.D., Associate Clinical Professor of Obstetrics & Gynecology; Associate Clinical Professor of Radiology

MARION G. BOLIN, M.D., Assistant Professor of Radiology MARK LEONARD BORN, M.D., Assistant Professor of Radiology

FRANCISCO CORREA-PAZ, M.D., Assistant Professor of Radiology

CRAIG M. COULAM, M.D., Ph.D., Assistant Professor of Radiology; Director of Computerized Axial Tomography

ANTHONY D. DOWLING, M.B., B.S., Assistant Professor of Radiology JON J. ERICKSON, Ph.D., Assistant Professor of Radiology

R. BARRY GROVE, M.D., Assistant Professor of Radiology

KENNETH L. HAILE, JR., M.D., Assistant Professor of Radiology

PAUL T. HAYES, M.B., B.S., Assistant Professor of Radiology

DUK UN HONG, M.D., Assistant Professor of Radiology

MINYARD D. INGRAM, M.D., Assistant Professor of Radiology; Director of the Division of Allied Health Professions; Director of Breast Cancer Detection Center

A. C. JOHNSON, M.B., B.S., Ph.D., Assistant Professor of Radiology

JOSEPH C. JONES, M.D., Assistant Professor of Radiology SAADOON KADIR, M.D., Assistant Professor of Radiology

SANDRA G. KIRCHNER, M.D., Assistant Professor of Radiology; Director of Medical Student Programs

PETER LAMS, M.B., B.S., Assistant Professor of Radiology

JOHN A. MOLIN, M.D., Assistant Professor of Radiology

CARLOS MUHLETALER, M.B., B.S., Assistant Professor of Radiology; Acting Director of Diagnostic Radiology

JAMES A. PATTON, Ph.D., Assistant Professor of Radiology

STEVEN L. STROUP, M.D., Assistant Professor of Radiology and Director of Radiation Oncology; Medical Director of the Program in Radiation Therapy Technology

M. LOUIS WEINSTEIN, M.D., Assistant Professor of Radiology

R. MITCHELL BUSH, D.V.M., Adjunct Assistant Professor of Radiology

JOHN H. BEVERIDGE, M.D., Assistant Clinical Professor of Radiology

ROBERT S. FRANCIS, M.D., Assistant Clinical Professor of Radiology

BURTON P. GRANT, M.D., Assistant Clinical Professor of Radiology

ELLIOTT H. HIMMELFARB, M.D., Assistant Clinical Professor of Radiology

JOSEPH M. IVIE, M.D., Assistant Clinical Professor of Radiology

JAMES R. MOYERS, M.D., Assistant Clinical Professor of Radiology

RONALD E. OVERFIELD, M.D., Assistant Clinical Professor of Radiology A. KNOX PATTERSON, M.D., Assistant Clinical Professor of Radiology

SAIN D. AHUJA, Ph.D., Instructor in Radiology

ROBERT A. BATTINO, M.D., Instructor in Radiology

JEFFREY A. CLANTON, M.S., Research Instructor in Radiology

PANOS P. FATOUROS, Ph.D., Research Instructor in Radiology

JOHN GODDARD, Ph.D., Instructor in Radiology

VICTOR GONCHARENKO, M.D., Research Instructor in Radiology

GARY R. NOVAK, L.A.T., Research Instructor in Radiology

JORGE J. SOWERS, 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

HENRY C. HOWERTON, M.D., Clinical Instructor in Radiology

ROBERT J. LINN, M.D., Clinical Instructor in Radiology

JOHN R. OLSON, M.D., Clinical Instructor in Radiology (Died 23 August 1977)

RICHARD P. OWNBEY, M.D., Clinical Instructor in Radiology

W. FAXON PAYNE, M.D., Clinical Instructor in Radiology

SAMUEL BENTON RUTLEDGE, M.D., Clinical Instructor in Radiology

MICHAEL B. SESHUL, M.D., Clinical Instructor in Radiology

JOHN M. TANNER, M.D., Clinical Instructor in Radiology

ELSIE SIEGEL, M.S., Research Associate in Radiology

THE Department of Radiology and Radiological Sciences introduces the discipline of radiology to medical students during their freshman course in gross anatomy; a series of exhibits correlates radiologic anatomy with the corresponding anatomic dissection. The application of both ultrasound and computerized axial tomography to the study of



cross-sectional anatomy of the body is also introduced in the first year.

As part of the sophomore course Methods in Clinical Science, department members conduct small group seminars correlating physical diagnostic signs with roentgen findings. In the junior year students attend departmental presentations as a part of their clinical rotations and discuss the use of appropriate imaging modalities including computerized axial tomography, nuclear medicine, and ultrasound in diagnostic evaluation.

Senior students have at their disposal a variety of audiovisual aids prepared for self-instruction and personally observe and participate in departmental procedures in a didactic lecture series. A clerkship in diagnostic radiology is offered as a fourth-year elective. Other electives available to students at various levels include computer applications in medicine principles in the use of radioisotopes in biology and medicine; clinical nuclear medicine; physics in diagnostic and therapeutic radiology; mammalian radiobiology; and neuroradiology. Clerkships in therapeutic radiology are also available.

### Required Courses

501. Introduction to Radiology. A series of lectures to introduce the second-year student to conventional radiographic methods in the study of various organ systems. Basic principles of imaging and interpretation are emphasized along with indications, contraindications, and risks of the examinations. 1 hour per week. SPRING.

**502. Radiology.** A series of lectures to acquaint the third-year student with the various imaging modalities of diagnostic radiology. As with 501, basic principles of imaging and interpretation are stressed along with indications, contraindications, and risks of the examinations. 1 hour per week. SPRING.

# Section of Surgical Sciences

# Surgery

H. WILLIAM SCOTT, JR., M.D., Professor of Surgery and Chairman of the Department; Director of the Section of Surgical Sciences

HARVEY W. BENDER, JR., M.D., Professor of Surgery and Chairman of the Department of Thoracic & Cardiac Surgery; Chairman of the Professional Practice Program

WALTER G. GOBBEL, JR., M.D.., Professor of Surgery; Associate Dean, Veterans Administration Affairs

BARTON McSWAIN, M.D., Professor of Surgery & Surgical Pathology, Emeritus H. C. MENG, M.D., Ph.D., Professor of Physiology; Professor of Surgery

JOHN L. SAWYERS, M.D., Professor of Surgery

BENJAMIN F. BYRD, JR., M.D., Clinical Professor of Surgery

W. ANDREW DALE, M.D., Clinical Professor of Surgery ROLLIN A. DANIEL JR., M.D., Clinical Professor of Surgery, Emeritus J. LYNWOOD HERRINGTON, JR., M.D., Clinical Professor of Surgery DOUGLAS H. RIDDELL, M.D., Clinical Professor of Surgery LOUIS ROSENFELD, M.D., Clinical Professor of Surgery MATTHEW WALKER, M.D., Clinical Professor of Surgery (Died 15 July 1978) R. BENTON ADKINS, JR., M.D., Associate Professor of Surgery; Associate Professor of Anatomy RICHARD H. DEAN, M.D., Associate Professor of Surgery PHILIP J. NOEL, M.D., Associate Professor of Surgery VERNON H. REYNOLDS, M.D., Associate Professor of Surgery ROBERT E. RICHIE, M.D., Associate Professor of Surgery EDMUND W. BENZ, M.D., Associate Clinical Professor of Surgery PHILLIP P. BROWN, M.D., Assistant Clinical Professor of Surgery WALTER L. DIVELEY, M.D., Associate Clinical Professor of Surgery WILLIAM. H. EDWARDS, M.D., Associate Clinical Professor of Surgery HERSCHEL A. GRAVES, JR., M.D., Associate Clinical Professor of Surgery JACKSON HARRIS, M.D., Associate Clinical Professor of Surgery J. KENNETH JACOBS, M.D., Associate Clinical Professor of Surgery MALCOLM R. LEWIS, M.D., Associate Clinical Professor of Surgery ROBERT McCRACKEN, M.D., Associate Clinical Professor of Surgery DAUGH W. SMITH, M.D., Associate Clinical Professor of Surgery, Emeritus WILLIAM S. STONEY, JR., M.D., Associate Clinical Professor of Surgery ROBERT L. BOMAR, JR., M.D., Assistant Professor of Surgery JOHN W. HAMMON, JR., M.D., Assistant Professor of Surgery RICHARD L. PRAGER, M.D., Assistant Professor of Surgery RACHEL K. YOUNGER, B.A., Assistant Professor of Surgery (Research) WILLIAM. C. ALFORD, JR. M.D., Assistant Clinical Professor of Surgery STANLEY BERNARD, M.D., Assistant Clinical Professor of Surgery CLOYCE F. BRADLEY, M.D., Assistant Clinical Professor of Surgery GEORGE BURRUS, M.D., Assistant Clinical Professor of Surgery PAUL S. CRANE, M.D., Assistant Clinical Professor of Surgery HAROLD C. DENNISON, JR., M.D., Assistant Clinical Professor of Surgery GEORGE E. DUNCAN, M.D., Assistant Clinical Professor of Surgery PARKER 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, Emeritus SAM Y. GARRETT, M.D., Asssistant Clinical Professor of Surgery CARL N. GESSLER, M.D., Assistant Clinical Professor of Surgery JOSEPH L. MULHERIN, JR., M.D., Assistant Clinical Professor of Surgery OSCAR F. NOEL, M.D., Assistant Clinical Professor of Surgery JEFFERSON C. PENNINGTON, JR., M.D., Assistant Clinical Professor of Surgery DAVID R. PICKENS, JR., M.D., Assistant Clinical Professor of Surgery ROBERT N. SADLER, M.D., Assistant Clinical Professor of Surgery HARRISON H. SHOULDERS, JR., M.D., Assistant Clinical Professor of Surgery CLARENCE S. THOMAS, JR., M.D., Assistant Clinical Professor of Surgery CHARLES C. TRABUE IV, M.D., Assistant Clinical Professor of Surgery WILSON H. BUTTS, B.A., Research Instructor in Surgery MARION B. TALLENT, JR., M.D., Instructor in Surgery

ROBERT C. BONE, M.D., Clinical Instructor in Surgery; Clinical Instructor in Pediatrics

TERRY ALLEN, M.D., Clinical Instructor in Surgery

KENNETH L. CLASSEN, M.D., Clinical Instructor in Surgery
J. LUCIAN DAVIS, M.D., Clinical Instructor in Surgery
BENJAMIN FISHER, M.D., Clinical Instructor in Surgery
ROY G. HAMMONDS, M.D., Clinical Instructor in Surgery
ROBERT A. HARDIN, M.D., Clinical Instructor in Surgery
ROBERT W. IKARD, M.D., Clinical Instructor in Surgery
JAMES P. LESTER, M.D., Clinical Instructor in Surgery
M. CHARLES McMURRAY, M.D., Clinical Instructor in Surgery
JOE M. MILLER, M.D., Clinical Instructor in Surgery
LARMISTEAD NELSON, M.D., Clinical Instructor in Surgery
ROY J. RENFRO, M.D., Clinical Instructor in Surgery
LANSDON B. ROBBINS, II, M.D., Clinical Instructor in Surgery
RICHARD B. TERRY, M.D., Clinical Instructor in Surgery
JOHN K. WRIGHT, M.D., Clinical Instructor in Surgery

### Dentistry

H. DAVID HALL, D.M.D., M.D., Professor of Oral Surgery and Chairman of the Department;
Acting Chairman of the Department of Dentistry

E. THOMAS CARNEY, D.D.S., Clinical Professor of Dentistry; Clinical Instructor in Pediatrics S. JULIAN GIBBS, D.D.S., Ph.D., Associate Professor of Radiology; Assistant Professor of Dentistry

JACK ALEXANDER TYSON, D.D.S., Assistant Professor of Dentistry
ROY SHELDON BERKON, D.D.S., Assistant Clinical Professor of Dentistry
JEFFREY B. CLARK, D.D.S., Assistant Clinical Professor of Dentistry
HERBERT ALLEN CROCKETT, D.D.S., Assistant Clinical Professor of Dentistry
FRANK H. DePIERRI, JR., D.M.D., Assistant Clinical Professor of Dentistry
FRED H. HALL, D.D.S., Assistant Clinical Professor of Dentistry
ROBERT C. LINEBERGER, D.D.S., Assistant Clinical Professor of Dentistry
FRED M. MEDWEDEFF, D.D.S., Assistant Clinical Professor of Dentistry
REBECCA BAYS SCHWARTZ, D.D.S., Instructor in Dentistry

GEORGE A. ADAMS, JR., D.D.S., Clinical Instructor in Dentistry (Pedodontics)

JAMES B. BAYLOR, D.D.S., Clinical Instructor in Dentistry

BARNETT J. HALL, D.D.S., Clinical Instructor in Dentistry

PERRY F. HARRIS, D.D.S., M.D., Assistant Clinical Professor of Otolaryngology; Clinical Instructor in Dentistry

WILLIAM. C. KING, D.M.D., Clinical Instructor in Dentistry; Clinical Instructor in Pediatrics L. WILLARD PARKER, D.M.D., Clinical Instructor in Dentistry; Clinical Instructor in Pediatrics

# Neurosurgery

WILLIAM F. MEACHAM, M.D., L.H.D., Clinical Professor of Neurosurgery and Chairman of the Department

CULLY A. COBB, JR., M.D., Clinical Professor of Neurosurgery

ARNOLD MEIROWSKY, M.D., Associate Clinical Professor of Neurosurgery ARTHUR G. BOND III, M.D., Assistant Clinical Professor of Neurosurgery

RAY W. HESTER, M.D., Assistant Clinical Professor of Neurosurgery CHARLES D. SCHEIBERT, M.D., Assistant Clinical Professor of Neurosurgery VAUGHAN A. ALLEN, M.D., Clinical Instructor in Neurosurgery VERNE E. ALLEN, M.D., Clinical Instructor in Neurosurgery ARTHUR CUSHMAN, M.D., Clinical Instructor in Surgery (Neurosurgery) JAMES W. HAYS, M.D., Clinical Instructor in Neurosurgery EVERETTE I. HOWELL, M.D., Clinical Instructor in Neurosurgery WARREN F. McPHERSON, M.D., Clinical Instructor in Neurosurgery

### Oral Surgery

H. DAVID HALL, D.M.D., M.D., Professor of Oral Surgery and Chairman of the Department. Acting Chairman of the Department of Dentistry
SAMUEL O. BANKS, JR., D.D.S., Clinical Professor of Oral Surgery
WALTER M. MORGAN, D.D.S., Professor of Clinical Dental Surgery, Emeritus
ELMORE HILL, D.M.D., Associate Clinical Professor of Oral Surgery
EDWARD H. MARTIN, D.M.D., Associate Clinical Professor of Oral Surgery
JEFFREY D. STONE, D.M.D., M.D., Assistant Professor of Oral Surgery
C. JOSEPH LADD, D.D.S., Assistant Clinical Professor of Oral Surgery
JAMES W. NICKERSON, JR., D.M.D., Assistant Clinical Professor of Oral Surgery
STANLEY C. RODDY, JR., D.M.D., Assistant Clinical Professor of Oral Surgery
JACK CARLYLE SCHMITT, D.D.S., Assistant Clinical Professor of Oral Surgery

# Otolaryngology

RICHARD HANCKEL, M.D., Clinical Professor of Otolaryngology and Interim Chairman WILLIAM G. KENNON, JR., M.D., Associate Clinical Professor of Otolaryngology GUY M. MANESS, M.D., Clinical Professor of Otolaryngology, Emeritus MICHAEL E. GLASSCOCK III, M.D., Associate Clinical Professor of Otolaryngology; Assistant Clinical Professor of Hearing & Speech (Otolaryngology)

ROBERT COLEMAN, Ph.D., Associate Professor of Speech Science; Assistant Professor of

Otolaryngology
FREEMAN McCONNELL, Ph.D., Professor of Audiology; Associate Professor of Otolaryngology (On leave)

CLYDE V. ALLEY, JR., M.D., Assistant Clinical Professor of Otolaryngology
J. THOMAS BRYAN, M.D., Assistant Clinical Professor of Otolaryngology
JERRALL P. CROOK, M.D., Assistant Clinical Professor of Otolaryngology
WILLIAM L. DOWNEY, M.D., Assistant Clinical Professor of Otolaryngology
HIRANYA GOWDA, M.D., Assistant Clinical Professor of Otolaryngology
PERRY E. HARRIS M.D., D.D.S. Assistant Clinical Professor of Otolaryngology

PERRY F. HARRIS, M.D., D.D.S., Assistant Clinical Professor of Otolaryngology; Clinical Instructor in Dentistry

DAN HIGHTOWER, M.D., Assistant Clinical Professor of Otolaryngology LARSON DALE BECK, M.D., Clinical Instructor in Otolaryngology ANTHONY DRAKE CASPARIS, M.D., Clinical Instructor in Otolaryngology WILLIAM G. DAVIS, M.D., Clinical Instructor in Otolaryngology GALE W. MILLER, M.D., Clinical Instructor in Otolaryngology WILLIAM THOMAS MOORE, M.D., Clinical Instructor in Otolaryngology ROBERT C. OWEN, M.D., Clinical Instructor in Otolaryngology

### Pediatric Surgery

JAMES A. O'NEILL, JR., M.D., Professor of Pediatric Surgery and Chairman of the Department; Professor of Pediatrics

GEORGE W. HOLCOMB, JR., M.D., Associate Clinical Professor of Pediatric Surgery

### Plastic Surgery

JOHN BROWN LYNCH, M.D., Professor of Plastic Surgery and Chairman of the Department GREER RICKETSON, M.D., Clinical Professor of Plastic Surgery
JOHN DAVID FRANKLIN, M.D., Assistant Professor of Plastic Surgery (On leave 1978/79)
JAMES MADDEN, JR., M.D., Assistant Professor of Plastic Surgery
EDWARD H. WITHERS, M.D., Assistant Professor of Plastic Surgery
JAMES H. FLEMING, JR., M.D., Assistant Clinical Professor of Plastic Surgery
CHARLES W. MacMILLAN, M.D., Assistant Clinical Professor of Plastic Surgery
KIRKLAND W. TODD, JR., M.D., Assistant Clinical Professor of Plastic Surgery
REUBEN A. BUENO, M.D., Clinical Instructor in Plastic Surgery
TAKIS PATIKAS, M.D., Clinical Instructor in Plastic Surgery

# Thoracic and Cardiac Surgery

HARVEY W. BENDER, JR., M.D., Professor of Surgery and Chairman of the Department of Thoracic & Cardiac Surgery; Chairman of the Professional Practice Program

WALTER G. GOBBEL, JR., M.D., Professor of Surgery; Associate Dean, Veterans Administration Affairs

JOHN L SAWYERS, M.D., Professor of Surgery

H. WILLIAM SCOTT, JR., M.D., Professor of Surgery and Chairman of the Department; Director of the Section of Surgical Sciences

W. ANDREW DALE, M.D., Clinical Professor of Surgery

ROLLIN A. DANIEL, JR., M.D., Clinical Professor of Surgery, Emeritus

DOUGLAS H. RIDDELL, M.D., Clinical Professor of Surgery

R. BENTON ADKINS, JR., M.D., Associate Professor of Surgery; Associate Professor of Anatomy

ROBERT E. RICHIE, M.D., Associate Professor of Surgery

WALTER L. DIVELEY, M.D., Associate Clinical Professor of Surgery

WILLIAM H. EDWARDS, M.D., Associate Clinical Professor of Surgery

JACKSON HARRIS, M.D., Associate Clinical Professor of Surgery

J. KENNETH JACOBS, M.D., Associate Clinical Professor of Surgery

ROBERT McCRACKEN, M.D., Associate Clinical Professor of Surgery WILLIAM S. STONEY, JR., M.D., Associate Clinical Professor of Surgery

JOHN W. HAMMON, JR., M.D., Assistant Professor of Surgery

RICHARD L. PRAGER, M.D., Assistant Professor of Surgery

WILLIAM C. ALFORD, JR., M.D., Assistant Clinical Professor of Surgery

PHILLIP P. BROWN, M.D., Assistant Clinical Professor of Surgery ROBERT N. SADLER, M.D., Assistant Clinical Professor of Surgery

CLARENCE S. THOMAS, JR., M.D., Assistant Clinical Professor of Surgery

## Urology

ROBERT K. RHAMY, M.D., Professor of Urology and Chairman of the Department
H. EARL GINN, M.D., Professor of Medicine and Head of the Renal Division; Associate
Professor of Urology; Associate Professor of Biomedical Engineering, School of Engineering

HARRY S. SHELLEY, M.D., Associate Professor of Urology, Emeritus; Honorary Curator of the

Historical Collection in the Medical Library

J. DOUGLAS TRAPP, M.D., Clinical Instructor in Urology

WILLIAM J. STONE, M.D., Associate Professor of Medicine; Associate Professor of Urology PAUL E. TESCHAN, M.D., Associate Professor of Medicine; Associate Professor of Urology EDWARD H. BARKSDALE, M.D., Associate Clinical Professor of Urology, Emeritus HENRY L. DOUGLASS, M.D., Associate Professor of Clinical Urology, Emeritus CHARLES E. HAINES, JR., M.D., Associate Clinical Professor of Urology, Emeritus PHILLIP P. PORCH, JR., M.D., Associate Clinical Professor of Urology VICTOR BRAREN, M.D., Assistant Professor of Urology; Assistant Professor of Pediatrics FREDERICK K. KIRCHNER, M.D., Assistant Professor of Urology BRUCE I. TURNER, M.D., Assistant Professor of Urology OSCAR CARTER, M.D., Assistant Clinical Professor of Urology ALBERT P. ISENHOUR, M.D., Assistant Clinical Professor of Urology ROBERT E. McCLELLAN, M.D., Assistant Clinical Professor of Urology TOM E. NESBITT, M.D., Assistant Clinical Professor of Urology JOHN M. TUDOR, M.D., Assistant Clinical Professor of Urology ROBERT B. BARNETT, M.D., Clinical Instructor in Urology ROBERT A. CARTER, M.D., Clinical Instructor in Urology ROBERT H. EDWARDS, M.D., Clinical Instructor in Urology ROBERT FABER, M.D., Clinical Instructor in Urology JOHN R. FURMAN, M.D., Clinical Instructor in Urology KEITH W. HAGAN, M.D., Clinical Instructor in Urology ROBERT A. SEWELL, M.D., Clinical Instructor in Urology

THE Section of Surgical Sciences is composed of the departments of: Surgery, Dentistry, Neurosurgery, Oral Surgery, Otolaryngology, Pediatric Surgery, Plastic Surgery, Thoracic and Cardiac Surgery, and Urology.

These departments contribute to the interdepartmental course in methods in clinical science. Third-year students participate in a clinical clerkship in which they are assigned to the surgical divisions of Vanderbilt Hospital. Third-year surgical clerks also participate in a series of clinical case presentations. Fourth-year students are assigned to a rotation in the surgical outpatient department of Vanderbilt Hospital.

Electives offered to students at various levels include such courses assex counseling, human sexuality, and management of vascular surgical problems. Surgical clerkships are offered to fourth-year students as electives at affiliated hospitals.

Other elective clerkships available to fourth-year students include: neurological surgery, cardiovascular surgery, urology, pediatric surgery,

clinical oncology, plastic surgery, renal transplantation, and oral surgery. A laboratory research elective and a urology clinic seminar are also available to fourth-year students.

#### **Required Courses**

501. Methods in Clinical Science. An interdepartmental course designed to acquaint the student with the techniques, methods, and basic principles necessary to take careful histories, perform thorough physical examinations, and to understand and utilize basic laboratory procedures employed in clinical medicine. Students are divided into small tutorial groups for intensive work with patients on the wards at Vanderbilt University Hospital, the Veterans Administration Hospital, and Nashville General Hospital. Similar tutorial groups are utilized in the laboratory where students learn methods for examining urine, blood, sputum, gastric contents, feces, and body fluids. An introduction to neurologic diagnostic methods is included in the course. Additional training is given in special problems which relate to examination of pediatric, surgical, and obstetrical patients. Radiological techniques are correlated with instructional sessions. Correlative sessions are interspersed with the above. In these sessions, methods by which the history, physical examination, and laboratory aids can be used to arrive at diagnosis and decisions regarding further study and treatment are conducted by interdepartmental groups. Dr. Liddle, Dr. Pennington, and members of the Department of Medicine; Dr. Hartmann and members of the Department of Pathology. Dr. Karzon and members of the Department of Pediatrics; Dr. Scott and members of the Department of Surgery; Dr. Burnett and members of the Department of Obstetrics & Gynecology; members of the departments of Anatomy, Biochemistry, Pharmacology, and Radiology.

502. Clinical Clerkship. For ten weeks each student in the third-year class is assigned to the surgical divisions of the Vanderbilt University Hospital. Under the direction and supervision of the staff, the student takes histories, does physical examinations and assists the staff in the diagnostic evaluation and clinical management of assigned patients. Half of each student's period of

clinical work is in general surgery, including thoracic, cardiovascular and pediatric services. The other five weeks of the clinical assignment provide brief but concentrated rotations to services in neurosurgery, urology, ophthalmology, and otolaryngology. These rotations provide exposure to a variety of patients with problems in general surgery and in the special fields of surgery. Teaching rounds are held daily by members of the staff. Students go with their patients to the operating rooms where they are observers and assistants to the staff in surgery, the surgical specialties, and anesthesiology. Instruction in anesthesiology is given during operating room assignments by the members of that department. An integral part of this clerkship is the weekly three-hour assignment in operative surgery and anesthesiology conducted in the S.R. Light Laboratory for Surgical Research by the Department of Surgery in collaboration with the Department of Anesthesiology. Dr. Scott and

503. Survey of Surgery. A series of clinical presentations and lectures is given which is designed to present a broad view of the clinical fields of surgery. Illustrative case presentations are made by third-year surgical clerks. These discussions stress the correlation between basic biologic structure and function, pathologic alterations, and clinical manifestations. One hour per week for four academic units. FALL & SPRING. Dr. Scott and Staff.

504. Surgical Outpatient Service. Each fourth-year student is assigned in rotation for six weeks to the surgical outpatient department of the Vanderbilt University Hospital. Here they serve as assistants in the outpatient clinics of general surgery and orthopedic surgery, and in the tumor clinic. Various members of the surgical staff are in attendance to instruct the students in their work and discuss with them the diagnosis and treatment of the patients. Dr. Reynolds, Dr. Dean and Arthur Leroy Brooks, Professor of Orthopedics & Rehabilitation.

### Register of Students 1978/79

#### First-Year Class

WILLIAM MARK BAKER (B.A., San Diego) Orange, Calif.
ROZELLE JENEE BARBER (B.S., Loma Linda) Compton, Calif.
JOSEPH BARNES (B.A., Vanderbilt) Pall Mall, Tenn.
RUSSELL THOMAS BARR (B.S., Birmingham-Southern) Huntsville, Ala.
RUTH FELDER BARRON (B.S., Auburn) Athens, Ga.
JACK MILLER BATSON, JR. (B.S., Massachusetts Institute of Technology) Nashville, Tenn.
STEVEN ROY BENNETT (B.S., Furman) Roswell, Ga.
JOHN WESLEY BOLDT, JR. (B.A., Southern Methodist) San Antonio, Tex.
CHARLES RENILE BOWLES (B.S., Stanford) Liberty, Mo.
DON IGOR BOYCHUK (B.A., Rutgers) West Trenton, N.J.
DOUGLAS DONALD BRUNETTE (B.S., St. Lawrence) New City, N.Y.
THOMAS BYRD (B.S., University of Miami) Nashville, Tenn.

KAREN CARLSON (B.A., California, Davis) La Habra, Calif.
GREGORY MILLARD CLOYD (B.S., Notre Dame) Paducah, Ky.
ALLEN ROBBINS CRAIG (B.S., King College) Paducah, Ky.
DAVID LYNN CROSS (B.A., Vanderbilt) Bristol, Tenn.
MICHAEL ANDREW CZORNIAK (B.S., M.S., Connecticut) West Hartford, Conn.

STEVEN M. DANDALIDES (B.A., Oberlin) Chardon, Ohio DAVID GORDON DANIEL (B.A., Emory) Jackson, Miss.

MICHAEL VANCLEFF DELAHUNT (B.S., New Hampshire) Syosset, N.Y. SAMUEL HOUSTON DEMENT (B.A., Tennessee) Murfressboro, Tenn. ROGERT DALHOUSE DESPREZ (B.A., Vanderbilt) Nashville, Tenn. MARY ELLEN DIMOCK (B.S., Florida State) Plantation, Fla. WILLIAM CHESNUT DOOLEY (B.S., Samford) Birmingham, Ala. ANDRE MARK DURAND (B.A., Brown) Maryville, Tenn.

WEBB JOHNSTON EARTHMAN (B.A., Virginia) Nashville, Tenn.

LINDA LANETT FAIRRIES (B.S., Alabama) Montgomery, Ala.
CYNTHIA ANN FLEISHER (B.A., Tennessee) Goodlettsville, Tenn.
BARRY CHARLES FOX (B.A., Yale) Yonkers, N.Y.
ERIC FRIEDENBERG (B.A., New York University) New York, N.Y.

WALTER JOSEPH GAWEL III (B.A., Pennsylvania) Wilmington, Del. STEPHEN K. GERARD (B.A., California, San Diego; Ph.D., Vanderbilt) Nashville, Tenn. BRUCE RANDOLPH GOODMAN (B.S., Tulane) Miami Beach, Fla.

CURTIS JAMES HAGENAU (B.A., Tennessee) Brentwood, Tenn.
FORREST CLEAVE HAM (B.A., Vanderbilt) Lexington, Ky.
JOHN TURNER HAMM (B.A., Vanderbilt) Louisville, Ky.
CARL RICHARD HAMPF (B.S., Massachusetts Institute of Technology) Wheatridge, Colo.
KEITH ROBERT HARMON (B.A., Grinnell) Centralia, Mo.
ROBERT GREG HARRIS (B.A., Brown) Highland Park, III.
LISA ANNE HENDRICKSON (B.A., Northwestern) Cornell, Wis.
ALICE ANGELA HINTON (B.S., Tulane) Nashville, Tenn.
DAVID HARRISON HOLT, JR. (B.S., Vanderbilt) Ft. Lauderdale, Fla.
RICK ALAN HOWARD (B.S., Georgia) Atlanta, Ga.
WILLIAM STUART HUDSON, JR. (B.S., Duke) Columbus, Ga.
WILLIAM S. HUTCHINGS II (B.S., Davidson) Macon, Ga.

FARRIS JACKSON, JR. (B.S., Harvard) Kingsport, Tenn.
RICHARD SCOTT JAECKLE (B.S., Wisconsin) Middleton, Wis.
FREDERIC LUKE JOHNSTONE (B.S., Johns Hopkins) Madison, N.J.

JOEL SHELTON KOENIG (B.S., Yale) Nashville, Tenn.

RICHARD BRIAN LAWDAHL (B.S., Arizona State) Temple, Ariz.

BARBARA JEAN LITTLE (B.A., Stanford) Racine, Wis,

KEVIN JAY LIUDAHL (B.S., Vermillion) Watertown, S.D.

SANDRA ALICIA LOWE (B.S., M.A., New York University) St. Albans, N.Y.

ELOISE KARIN LUNDBERG (B.S., Auburn) Huntsville, Ala.

DORCAS LYNNE MANSELL (B.S., David Lipscomb) Wilmington, Del. STEVEN MICHAEL MARSOCCI (B.A., Harvard) Waltham, Mass. KEVIN DOUGLAS MARTIN (B.A., M.S., Northwestern)Kansas City, Mo. MICHAEL EDWIN McCADDEN (B.A., Vanderbilt) St. Louis, Mo. WILLIAM DAVIS McCONNELL (B.A., Princeton) Jacksonville, Fla. YVONNE McMAHON (B.A., Vanderbilt) Nolensville, Tenn. SCOTT W. McMURRAY (B.A., Mercer) Forsyth, Ga. WALTER JERRY MERRELL (B.A., Vanderbilt) Palm Beach, Fla. TED JONATHAN MILLER (B.S., University of the South) Zenia, Ohio DEBRA LEE MOORE (B.S., Michigan) Highland, III. TIMOTHY JOHN MOORE (B.S., North Dakota) Turtle Lake, N.D. WILLIAM ROBERTSON MOORE (B.A., Memphis State) Memphis, Tenn. WALTER McNAIRY MORGAN III (B.S., Princeton) Nashville, Tenn. MARVIN EARL MYLES (B.S., M.S., Jackson State) Gloster, Miss.

ALLEN JAY NATOW (B.A., Brown) Valley Stream, N.Y.
ELIZABETH K. NEUZIL (B.S., University of Washington) Bellingham, Wash.

WILLIAM RUSSELL OLIVER (B.S., Oklahoma) Roff, Okla.

CURT IRA PARNES (B.A., Franklin & Marshall) Emerson, N.J.

ERIC MORGAN PECK (B.S., Emory & Henry) Charleston, W.Va.

JOE BELLER PEVAHOUSE (B.S., Southwestern at Memphis) Henderson, Tenn.

LONNIE SCOTT POLINER (B.S., Duke) Easton, Penn.

WILLIAM F. PRITCHARD, JR. (B.S., Massachusetts Institute of Technology) Greenville, N.C.

DOUGLAS BRIAN PRITCHETT (B.S., Georgia) Stone Mountain, Ga.

MICHAEL JOSEPH RADI (N.D., Indiana) Michigan City, Ind.
THOMAS HOWARD RAND (B.S., University of the South) Cleveland Heights, Ohio
JAMES ALBERT REYNOLDS (B.S., Alabama) Huntsville, Ala.
BRUCE EARLE RICHARDS (B.S., Rice) Florence, Ala.
MICHAEL ELROY RING (B.A., California, Los Angeles) San Francisco, Calif.
HILLEARY C. ROCKWELL III (B.S., Vanderbilt) Silver Springs, Md.
MARC HOWELL ROUTMAN (B.A., Washington University) Birmingham, Ala.
ELLESTON CRAIG RUCKER (B.S., Vanderbilt) Nashville, Tenn.
ROBERT ALAN SAHL (B.A., Johns Hopkins) Orange, Conn.
JAMES RAMSEY SAXON (B.A., Tennessee) Chattanooga, Tenn.

ROBERT ALAN SCHOUMACHER (B.S., William & Mary) Vienna, Va. MATTHEW EDWIN SEAMAN (B.S., Stanford) La Canada, Calif. COURTNEY SHANDS III (B.A., Stanford) St. Louis, Mo. STEPHEN VICTOR SOBEL (B.S., Duke) Miami Beach, Fla. RICHARD GLEN STILES (B.S., Vanderbilt) Bowling Green, Ky. PHILIP ANDRE ST. RAYMOND (B.A., Virginia) Falls Church, Va. WILLIAM G. STRICKLAND (B.S., Alabama) Scottsboro, Ala.

JAMES HARTMAN SUHRER, JR. (B.A., Emory) Aiken, S.C.

WILLIAM WAKEFIELD TIPTON (B.A., Vanderbilt) Tiptonville, Tenn.

DICKEY CATHERINE VAN EYS (B.A., Vanderbilt) Houston, Tex.
ALAN LEWIS WAGNER (B.S., Northwestern) Ornaha, Neb.
BRADFORD WATERS (B.A., Louisville) Carrollton, Ky.
HENRY GEOFFREY WATSON (B.S., California, Davis) Davis, Calif.
MICHAEL BRUCE WERT (B.A., Princeton) Mobile, Ala.
KENDALL LEE WISE (B.A., Mississippi) Naples, Fla.
PATRICK EUGENE WRIGHT, JR. (B.A., Vanderbilt) Owensboro, Ky.

#### Second-Year Class

HOWARD COBB ALEXANDER, JR. (B.S., Washington & Lee) Montgomery, Ala. JAMES BYRON ATKINSON III (B.A., Ph.D.) Nashville, Tenn.

PETER WAYNE BALKIN (B.A., Dartmouth) Weston, Mass.

STEPHEN KENN BEEMAN (B.S., Mississippi) Quitman, Miss.

BRUCE ROBERT BEYER (B.A., Vanderbilt) Passaic, N.J.

EROL MARTIN BEYTAS (B.S., Johns Hopkins) Highstown, N.J.

MARTHA SUE HEMPFLING BLAISDELL (B.S., Texas Christian) Indianapolis, Ind.

MICHAEL ALAN BLOOD ( B.A., Illinois Wesleyan) Hoffman Estates, Ill.

LINDA MAE BOUND (B.A., Rutgers) Iselin, N.J.

MARGARET MARY BRENNAN (B.A., Williams) Short Hills, N.J.

ERIC LEIGH BRESSLER (Rice) Knoxville, Tenn.

RICHARD WILLIAM BRILES (B.A., California, San Diego) San Diego, Calif.

JOEL RAYMOND BUCHANAN, JR. (B.S., Duke) Oak Ridge, Tenn.

THOMAS FREDERICK BYRD III (B.S., Tusculum) Westbury, N.Y.

EDWARD RUSSO CARTER (B.A., Princeton) Potomac, Md.
DANA JOHN CHRISTIANSON (B.A., New Hampshire) Worcester, Mass.
DANIEL LEE CLEMENS (B.A., Vanderbilt) Nashville, Tenn.
MARY KAYE CONTI (B.A., Princeton) Oceanside, N.Y.
NELL STEVEN COSSIN (B.S., Emory) Hollywood, Fla.

ANDREW McLEAN DALE (B.A., Southern Methodist) Columbia, Tenn. MICHAEL PETER DIAMOND (B.A., Vassar) Poughkeepsie, N.Y.

CHARLES STODDARD EBY (B.S., Duke) Saint Louis, Mo. JAMES MARK EDWARDS (B.H., Johns Hopkins) Slingerlands, N.Y. WILLIAM HAWKINS EDWARDS, JR. (B.A., Vanderbilt) Nashville, Tenn.

LINDA JOAN FANNON (B.S., Centenary) Shreveport, La.
STEVEN DAVID FAYNE (B.A., Vanderbilt) Smithtown, N.Y.
AGNES BORGE FOGO (B.A., Tennessee, Chattanooga) Chattanooga, Tenn.
LESA DEANNE FRAKER (B.A., Vanderbilt) Clinton, Tenn.
MARGARET LYNN FRANCE (B.A., Whitman) Brush Prarie, Wash.
HOWARD ADAM FUCHS (B.S., Colorado School of Mines) Eaton, Colo.

WALTER BRIAN GIBLER (B.S., Brown) Louisville, Ky.

MARK EDWARD GILLESPIE (B.A., Vanderbilt) Libertyville, III.

JAMES ROBERT GLASSNER (B.A., Wisconsin, Madison) Milwaukee, Wis.

STUART HARRISON GOLD (B.A., Vanderbilt) Savannah, Ga.

JAMES FOSTER GRAUMLICH (B.A., Duke) Miami, Fla.

DANIEL MOGENSEN GREEN (B.A., Brown) Northbrook, III.

WILLIAM JULIAN GREGORY (B.A., Vanderbilt) Dalton, Ga. MARTA LEONA GWINN (B.A., Louisville) Louisville, Ky.

BLAINE LAWRENCE HART (B.A., Utah State) Logan, Utah
BARBARA JOYCE HARTKOP (Nevada) Reno, Nev.
MARK EDWARD HEINSOHN (B.A., Tulane) Winter Park, Fla.
MELANIE VONCILE HINSON (A.B., Missouri) Kennett, Missouri
CARL MICHAEL HOLLMAN (B.A., Tennessee) Loretto, Tenn.
DANIEL PAYSON HUNT (B.S., Frostburg State) Cumberland, Md.

DONALD MELVIN JACOBSON (B.A., M.A., Northwestern) Cicero, III.
PETER CHARLES JACOBSON (B.A., Williams) Nashville, Tenn.
PETER EDWARD JENSEN (B.S., Georgia) Athens, Ga.
LEE WORKMAN JORDAN (B.A., Vanderbilt) Franklin, Tenn.

MICHAEL KENNETH KAPLON (B.A., University of the South) Lenoir City, Tenn.

ROBERT SCOTT KRAMER (B.S., State University of New York) New Hyde Park, N.Y.

FREDERICK JOSEPH KRETZSCHMAR (B.S., Duke) Baltimore, Md.

PETER BRECKENRIDGE LAMBERT (B.A., Vanderbilt) Brookline, Mass.

CHRISTOPHER D. LIND (B.A., Pomona) Boulder, Colo.

WILLIAM FRANCIS MARSHALL, JR. (B.S., M.S., Stanford) Santa Ana, Calif.
ROBERT TRIGG McCLELLAN (B.S., Vanderbilt) Nashville, Tenn.
THEO LASSAR MEYER III (B.S., Emory) Montgomery, Ala.
FRANKLIN BRADFORD MEYERS (B.A., Vanderbilt) East Alton, III.
LORAN PASCHAL MOORE III (B.S., Vanderbilt) Owensboro, Ky.
CRAIG MICHAEL MORGAN (B.S., Southeast Missouri State) Cape Girardeau, Mo.
FRANK JAMES MURABITO (B.A., Johns Hopkins) Harrison, N.Y.

MARY DEKKER NETTLEMAN (B.S., Ohio) Coldwater, Miss.

PATRICK JOHN OFFNER (B.S., Vanderbilt) Radcliff, Ky.
PAUL ALAN OLSON (B.S., Illinois, Urbana) Champaign, Ill.
STEVEN FRANK O'SHEAL (B.A., Vanderbilt) Columbia, S.C.

JAMES OWEN PALMER (B.A., Vanderbilt) Portland, Tenn.

MARK KEVIN PARSONS (B.A., University of the South) Nashville, Tenn.

ELLEN WHITE PAYNE (B.A., Vanderbilt) Hopkinsville, Ky.

DAVID MICHAEL PEARSE (B.S., Notre Dame), Clarksville, Tenn.

SUSAN LYNN PFLEGER (B.A., Macalester) Milwaukee, Wis.

WAYNE LYLE POLL (B.A., Duke) Syosset, N.Y.

EDWARD STEPHEN PRATT (B.A., Colorado) Palisade, Colo.

ROBERT GRAY PRESSON, JR. (B.A., Vanderbilt) Birmingham, Ala.

RAYMOND HOWARD PURDY (B.S., Missouri) Columbia, Mo.

DAVID FRANKLIN RANEY (B.S., California, Davis) Tiburon, Calif.

VALERIE JEAN RAPPAPORT (B.S., Stanford) Santa Ana, Calif.

ROBERT ALLEN ROGERS (B.S., Carnegie-Mellon) Pittsburg, Pa.

ROBERT CALVIN ROLLINGS Savannah, Ga.

MICHAEL BAYLOR RONEMUS (B.S., Colorado) Boulder, Colo.

ALAN STUART ROUTMAN (B.A., Washington University) Birmingham, Ala.

ERIC KEITH ROWINSKY (B.A., New York) Brooklyn, N.Y.

PAULA LESLIE SAHAKIAN (B.A., Trinity College) Wellesley, Mass.

RANDY CRAIG SALIARES (B.A., Illinois Wesleyan) Macomb, Ill.

LAWRENCE L. SANDERS, JR. (B.S., Clemson) Ware Shoals, S.C. LEWIS KARL SCHRAGER (B.A., Johns Hopkins) Westfield, N.J. LYNN ELIZABETH SHALLBERG (B.A., Vanderbilt) East Calais, Vt. WILLIAM CARMINE SIPPO (B.S., St. Peters) Union City, N.J. PAUL HEERMANS SMITH, JR. (B.A., Vanderbilt) San Antonio, Tex. ALBERT THOM SPAW (B.S., Arizona State) Phoenix, Ariz. KEITH WALTER STAMPHER (B.S., California Polytechnic) Santa Maria, Calif. MARGARET MARY STOLZ (B.S., St. Johns) Hicksville, N.Y. THOMAS JOSEPH SULLIVAN (B.A., Vanderbilt) Hempstead N.Y.

PATRICIA ANN TEPPER (B.A., Michigan) Chattanooga, Tenn.

JOSEPH COLEMAN THOMPSON, JR. (B.S., Alabama, Birmingham) Birmingham, Ala.

ANN DENISE THOR (B.S., California) Orinda, Calif.

JOSEPH ALLAN TUCKER, JR. (B.S., Georgia) Decatur, Ga.

THOMAS ALAN WARR (A.B., California, Riverside) Riverside, Calif.
ROBERT THEODORE WILDER (B.S., Stanford) Colton, Calif.
GEORGE EDWIN WILLIAMS (B.S., Western Kentucky) Bowling Green, Ky.
KENNETH RONALD WINTER (B.S., Brandeis) Syosset, N.Y.
GLENN STEWART WOLFSON (B.A., Rutgers) Highland Park, N.J.
GEORGE DEWEY WRIGHT III (B.A., Vanderbilt) Dalton, Ga.

MARY IDYLE YARBROUGH (B.S., Vanderbilt) Toone, Tenn.

#### Third-Year Class

RICHARD T. ADAMSON (B.S., Alabama) Huntsville, Ala.

MARTIN E. BACON (B.S., U.S. Naval Academy) Jacksonville, Fla.

JOHN C. BALDINGER (B.A., Emory) Bethesda, Md.

ROBERT L. BARRACK (B.A., Tennessee, Knoxville) Anderson, Tenn.

ADAM SCOTT BENNION (B.S., U. of Utah; D.D.S., U. of the Pacific) Nashville, Tenn.

ANTHONY N. BRANNAN (B.A., Vanderbilt) Tampa, Fla.

DONNA L. BRATTON (B.S., Emory) West Palm Beach, Fla.

MARK A. BRIEL (B.A., Wabash College) Evansville, Ind.

DEBORAH L. BRYANT (B.A., Wellesley) Sioux Falls, S.D.

DELAND D. BURKS (B.S., Vanderbilt) Guntersville, Ala.

DAVID J. BYLUND (B.A., Hamilton College) Bemus Point, N.Y.

WALTER WINN CHATHAM (B.S., Duke) Fort Lauderdale, Fla.
DAVID JOHN CLYMER (B.A., Kansas) Salina, Kansas
JEFFREY P. COOPER (B.S., Duke) Short Hills, N.J.

SUSAN E. DAY (B.A., Wellesley) Lebanon, N.J.
CHARLES V. DIRAIMONDO (B.S., Stanford) Orinda, Calif.
STEVEN H. DOWLEN (B.S., Tennessee, Chattanooga) Chattanooga, Tenn.
RAYMOND G. DUFRESNE, JR. (B.S., Providence) North Providence, R.I.

THEODORE E. EASTBURN III (B.S., Southwestern at Memphis) Memphis, Tenn. KATHERINE C. EDWARDS (B.A., Randolph-Macon Woman's) Farnham, Va. LEE W. ERLENDSON (B.A., California, San Diego) Long Beach, Calif.

CONARD F. FAILINGER III (B.A., Johns Hopkins) Towson, Md.

MICHAEL EDWARD FANT (B.S., Massachusetts Institute of Technology) Memphis, Tenn.

CHARLES P. FITZGERALD (B.S., Vanderbilt) Frankfort, Ky.

JEFFREY CARL FOSNES (B.A., Vanderbilt) Lakewood, Colo.

ANDREW J. FRIEDMAN (B.A., Amherst) New York, N.Y.

LAWRENCE E. GAGE (B.A., North Carolina, Chapel Hill) Wilmington, N.C. GARY A. GOFORTH (B.A., Vanderbilt) Johnson City, Tenn. MARK A. GREENBERG (B.A., Vanderbilt) Buffalo Grove, III.

STEVEN R. HANOR (B.A., Vanderbilt) Cincinnati, Ohio
LEO M. HATTRUP (B.S., Wichita State U.) Wichita, Kansas
LINDA L. HAWKINS (B.S., Michigan, Ann Arbor; Ph.D., Temple) Nashville, Tenn.
JAMES T. HAYS (B.A., Knox) West Frankfort, III.
DEAN A. HEALY (B.A., Whittier) Long Beach, Calif.
LAUREL ROSE HOFFMAN (B.A., Whittier) Whittier, Calif.

GEORGE WHITFIELD HOLCOMB III (B.A., Virginia) Franklin, Tenn.

JAMES E. HOLLORAN (B.A., Tennessee, Knoxville) Nashville, Tenn.

HALDEN W. HOOPER, JR. (B.S., Dartmouth) Gallatin, Tenn.

CHARLES E. HORNADAY, JR. (B.A., Vanderbilt) Owensboro, Ky.

CHARLES STEPHEN HOUSTON (B.A., Vanderbilt) Knoxville, Tenn.

CHARLES THOMAS HUMPHRIES (B.A., North Carolina, Chapel Hill) Durham, N.C.

KARLA MARIE JANSEN (B.A., Wisconsin, Milwaukee) West Bend, Wis. JAMES ASHMORE JOHNS (B.S., Yale) Baltimore, Md. JAMES EDWARD JOHNSON (B.A., Vanderbilt) Enterprise, Ala. THOMAS KEITH JONES (B.A., Emory) Dothan, Ala. MARC ANDREW JUDSON (B.S., Stanford) New York, N.Y. PAUL ANDREW JUSTICE, JR. (B.S., Vanderbilt) Nashville, Tenn.

AUDREY JEAN KLINE (B.S., Michigan, Ann Arbor) Dearborn, Mich. ROBERT C. KUYKENDALL (B.S., Vanderbilt) Hot Springs, Ark.

DEBORAH J. LIGHTNER (B.A., State University of New York, Buffalo) Amherst, N.Y. JOHN EDWARD LINN (B.S., Vanderbilt) Chicago, III. JOHN G. LONG (B.A., Macalester) laeger, W.Va.

REX MONROE McCALLUM (B.A., Rice) Henderson, Tenn.
GEORGE L. MILLER III (B.A., Vanderbilt) Germantown, Tenn.
ROBERT HORACE MILLER III (B.A., University of the South) Nashville, Tenn.
MARK ROGER MITCHELL (B.S., Brigham Young) Vista, Calif.
EDWARD L. MORGAN (B.S., Notre Dame) Shreveport, La.
JEFFREY SCOTT MORGAN (B.A., Vanderbilt) Lake Forest, III.

GARY STEPHEN NACE (B.A., Emory) Pompano Beach, Fla.
LEE SCOTT NEWMAN (B.A., Amherst; M.S., Cornell University) Westfield, N.J.
MARK BRYAN NORMAN (B.A., Santa Clara) Santa Clara, Calif.

JAMES RANDALL PATRINELY (B.S., Florida) Jacksonville, Fla. RALPH DAVISON PEELER III (B.A., Harvard) Memphis, Tenn. DAVID GORDEN PETTY (B.A., Vanderbilt) Carthage, Tenn. CHARLES WRIGHT PINSON (M.B.A., Colorado) Boulder, Colo. MARK ALLEN PIPER (A.B., Harvard) Astabula, Ohio CECILY JOAN POREE (B.A., Vassar) New Orleans, La.

JACQUELINE LEE RODIER (B.A., Cornell University) Oceanside, N.Y. CAROL ROGERS (B.S., A.B., Stanford) Santa Cruz, Calif.
DAVID BRUCE ROSS (B.A., Johns Hopkins) Saint Louis, Mo.

CLIVE H. SELL (B.A., Amherst) Nashville, Tenn.

GREGORY WILLIAM SHIELDS (B.A., University of Washington) Seattle, Wash.

BRUCE WILLIAM STAVENS (B.S., Trinity College; Ph.D., Iowa) Manchester, Conn.

DAVID MICHAEL STOLL (B.A., California State, Northridge) Beverly Hills, Calif.

JANA LEIGH SULZER (B.S., Washington University) Tampa, Fla.

LORNA C. SZCZUKOWSKI (B.S., Vanderbilt) Chattanooga, Tenn.

ROBERT TAUXE (B.A., Yale) Homewood, Ala.

JOHN EDWARD TERWILLEGER (B.S., Florida) Sanford, Fla.

RON HAYNOND TILFORD (B.A., Vanderbilt) Fulton, Ky.

ROBERT LANE TIPPENS (B.A., Tennessee) Nashville, Tenn.

CURTIS GREEN TRIBBLE (B.S., Presbyterian) Columbia, S.C.

CATHERINE VAN ANTWERPEN (B.S., Purdue) Milwaukee, Wisc.

JOHN MARCUS WHARTON (B.A., North Carolina, Chapel Hill) Mobile, Ala.

DARRELL PETER WILLIAMS (B.A., Wisconsin, Milwaukee) Mequon, Wisc.

MARK R. WINTERS (B.S., Pittsburgh) Pittsburgh, Pa.

ROBERT HAROLD WISE, Jr. (B.S., Samford) Dothan, Ala.

JOHN LELAND WOLFORD, JR. (B.A., Vanderbilt) Louisville, Ky.

#### Fourth-Year Class

BRIAN LEE ANDERSEN (B.S., Tulane) Hialeah, Fla.

JEAN RENE ANDERSON (B.A., David Lipscomb) Nashville, Tenn.

LOWELL BRIAN ANTHONY (B.S., King) Cleveland, Tenn.

ROBIN ALLEN BAKER (M.S., Georgia Institute of Technology) Winter Haven, Fla.
BYRON DAVID BALDRIDGE (B.A., Carleton) Tallahassee, Fla.
DORSEY MACHIR BASS, JR. (B.A., Missouri) Columbia, Mo.
RICHARD OCIE BESSENT (B.A., Vanderbilt) Jacksonville, Fla.
STEPHEN HUNTER BILLS (B.S., Southwestern at Memphis) Tullahoma, Tenn.
JOHN MICHAEL BOLDS (B.S., Harvard) Florence, Ala.
PHILLIP LAWRENCE BRESSMAN (B.S., Oklahoma) Lawton, Okla.
SUSAN ALLEYNE BRITTINGHAM (B.S., Stanford) New York, N.Y.
JOHN FREDERICK BRUNDAGE (B.S., U.S. Military Academy) Hialeah, Fla.
JAMES DAVID BRYANT Nashville, Tenn.
SUSAN HALPERIN BRYANT (B.A., Oberlin) Nashville, Tenn.

DEBRA GAY CARLTON (B.S., Massachusetts Institute of Technology)

Troy, Mich.

SUSAN OLEVIA CASSIDY (B.S., Maryland) Endicott, N.Y.

JAMES ROBERT CATO (B.A., Vanderbilt) Macon, Ga.

ROBERT LEWIS CHESS (B.A., Vanderbilt) New Concord, Ohio

LAURA DRURY CONNOR (B.S., Vanderbilt) Franklin, Tenn.

WILLIAM JONES CRUMP, JR. (B.S., Georgia) Savannah, Ga.

MARIO PAUL CURZI (B.S., California [Berkeley]) Concord, Calif.

LINDA ANN DANIEU (B.S., Canisius) West Seneca, N.Y.
RICHARD JOSEPH DANNENBERG (Ph.D., Vanderbilt) Milwaukee, Wis.
JAMES PHILLIP DAVIS, JR. (B.A., Vanderbilt) Nashville, Tenn.
SUZANNE DOWDY (B.A., Vassar) Oklahoma City, Okla.
MARY CATHERINE DUNDON (B.S., William & Mary) Bloomington, Ind.

WILLIAM CRAIG EASON (B.S., Morehouse) Savannah, Ga.

KATHLEEN FOLEY LEES FISCHER (B.A., Johns Hopkins) Cincinnati, Ohio BONNIE SUE FRIEHLING (B.S., State University of New York, Albany) Liberty, N.Y. WILLIAM ALEXANDER FULTON (B.S., Alabama) Birmingham, Ala. WILLIAM KEITH FUNKHOUSER, JR. (B.A., Vanderbilt) Oak Ridge, Tenn.

MARTIN ANTHONY GARCIA (B.A., Vanderbilt) Tallahassee, Fla.
HARVEY EDWARD GARRETT, JR. (B.A., Emory) Memphis, Tenn.
NEAL HILLARD GOLDBERG (B.S., Haverford) Laverock, Pa.
MITCHELL JERED GRAYSON (B.S., Johns Hopkins) Bellmore, N.Y.

ROBERT WADE HARGRAVES (B.A., Emory) Knoxville, Tenn.
RICHARD LEONHARDT HEATON, JR. (B.S., Armstrong State College) Savannah, Ga.
BOBBY JOE HENSON (B.A., Mississippi) Winchester, Tenn.
RICHARD MAJOR HILBORN (B.S., Centenary) Shreveport, La.
JACK MEYER HOFFNUNG (B.A., State University of New York, Buffalo) Buffalo, N.Y.
DAVID RANDAL FREELAND HUNDLEY (B.A., Hendrix) Star City, Ark.

CHRISTOPHER GEORGE JACKSON (Sr. in absentia, Brigham Young) Hinsdale, III.
JOHN CRAIG JACKSON (B.A., Duke) Nashville, Tenn.
WILLIAM THOMAS JOHANSON (B.S., Princeton) Nesconset, N.Y.
JAMES BUCKNER JONES, JR. (B.S., Duke) Brentwood, Mo.
ROYCE ETIENNE JOYNER (B.A., North Carolina) LaGrange, N.C.

RONALD JAY KANTER (M.S., Northwestern) North Miami, Fla.

JAMES MICHAEL KLEINERT (Sr. in absentia, Louisville) Louisville, Ky.

CHARLES DANIEL KNIGHT, JR. (B.A., Vanderbilt) Shreveport, La.

BARBARA ANN KONKLE (B.A., Northwestern) North Vernon, Ind.

VATHSALA KRISHNAMURTHY (B.S., Auburn) Nashville, Tenn.

JOEL ARDELL LEES (B.A., California, Santa Barbara) San Diego, Calif. KATHLEEN FOLEY LEES (B.A., Johns Hopkins) Cincinnati, Ohio

ELIZABETH ANN DUKE McADOO (B.S., Middle Tennessee State) Fort Pierce, Fla. JOHN SCOTT MILLIKAN (B.S., California, Irvine) La Mirada, Calif. ROBERT CORNELIUS MURPHY, JR. (B.S., Vanderbilt) Nashville, Tenn. JOHN J. MURRAY (A.B., Harvard) Dorchester, Mass.

GARY STEVEN NICOLAISEN (B.S., California, Davis) San Rafael, Calif. SUSAN NIERMEYER (B.S., Butler) Indianapolis, Ind. KEITH BRADLEY NOLOP (B.S., South Dakota) Mobridge, S.D.

THOMAS OPERCHAL (B.S., Case Western Reserve) New Brighton, Pa.

JOHN ROBERT PALMER (B.S., Purdue) Indianapolis, Ind.
JANICE ROSS PHARR (B.S., Southern University) Gibson, La.
JEFFREY POSNICK (B.A., Univ. of Minnesota; D.D.S., Harvard) Minneapolis, Minn.
CARY WATSON PULLIAM (B.A., Vanderbilt) Columbia, Tenn.

KRISTEN BETSY RAINES (B.S., Bowdoin) Pittsford, N.Y.
ALBERT AUGUSTUS RAMAGE III (B.S., Clemson) Kinards, S.C.
PETER CAREY RAWLINGS (B.A., North Carolina) Lookout Mountain, Tenn.
THOMAS ARTHUR RICHEY (B.S., Alabama) Russellville, Ala.
THOMAS WINGATE RIGSBY, SR. (B.A., Vanderbilt) Nashville, Tenn.
RANDY DALE ROBERTS (B.S., Alabama) Hartselle, Ala.
THOMAS IRA ROSENFIELD (B.S., Florida) Clanton, Ala.

SAMUEL ANDREW SANTORO, JR. (B.S., Emory) West Palm Beach, Fla.

LARRY MARVIN SARIPKIN (B.A., Vanderbilt) Memphis, Tenn.

WILLIAM EDWARD SERAFIN (B.S., Middle Tennessee State) Murfreesboro, Tenn.

BRUCE EDWARD SHANNON (B.A., Johns Hopkins) Casper, Wyo.

SARA JANE SHUMWAY (B.S., Stanford) Palo Alto, Calif.
PRESTON RIORDAN SIMPSON (B.S., Washington & Lee) Cincinnati, Ohio
MICHAEL JOSEPH SINEWAY (B.S., Georgia Institute of Technology) Atlanta, Ga.
THOMAS JEFFERSON STOKES, JR. (M.S., University of Miami) Miami, Fla.
TIMOTHY DEWEY STRYKER (B.S., Vanderbilt) Paducah, Ky.

JACK DAVID THOMPSON (B.S., Auburn) Wetumpka, Ala.
THOMAS EUGENE TOMPKINS (B.S., Vanderbilt) Burdette, Ark.
KIM LOU TRETHEWEY (B.A., Northwestern) Kansas City, Mo.

ANTHONY PHILLIP URBANEK (B.S., John Carroll; M.S., D.D.S., Indiana) Cleveland, Ohio

DENISE KAY VAN HORN-HAIGLER (B.A., Ohio State) Canton, Ohio
WOODFORD SPEARS VAN METER (B.S., Davidson) Paris, Ky.



### Joint M.D./Ph.D. Program

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### Fellows

#### Anatomy

Jeanette J. Norden, Ph.D. John T. Schmidt, Ph.D. Daniel F. Wunk, Ph.D.

#### Medicine

Zachary T. Bloomgarden, M.D. Robert B. Boswell, M.D. James E. Crook, M.D. Mehemet F. Fer. M.D. Ronald L. Fletcher, M.D. Clark R. Gregg, M.D. Warren A. Hiatt, Jr., MD. Yukio Hirata, M.D. James A. Knost, M.D. Mark J. Koury, M.D. Michel E. Kuzur, M.D. Roger W. Marcus, M.D.. Larry W. McNeil, M.D. Donald W. Morford, M.D. Stuart J. Padove, M.D. Robert W. Pederson, M.D. Stots B. Reele, M.D. Philip A. Routledge, M.B., B.S. Richard Steckley, M.D. Craig R. Sussman, M.D. Frank Svec, M.D. Steven T. Ticaric, M.D. Edmond F. Tipton, M.D.. Allen W. Tustin, M.D.

Jack D. Wahlen, M.D.

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John L. Yap, M.D.

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Betsy D. Bennett, M.D., Ph.D.
John B. Cousar, M.D.
Robert E. Mrak, M.D., Ph.D.
Edgar H. Pierce, Jr.

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Jens B. Grogaard, M.D.
Gerald L. Helinek, Jr., M.D.
Docia Hickey
Arye Lazar, Ph.D.
Rodney A. Lorenz, M.D.
David M. Moroney, Ph.D.
Jorge Rojas, M.D.

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James E. Crook, M.D., Ph.D. Stots B. Reele, M.D. Dan Mark Roden, M.D.

#### Psychiatry

Joseph P. McEvoy Olabisi Odegide, M.B., B.S.

### Class of 1978

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SUSAN TOY ANDREWS Medical Center Hospitals of South Carolina, Charleston (Family Practice) ANDREW DENNIS BAILEY Walter Reed Army Medical Center, Bethesda, Md. (Internal Medicine) **CURTIS LANDRY BAYSINGER** Walter Reed Army Medical Center, Bethesda, Md. (Pediatrics) CHRISTOPHER JAMES BEGLEY Vanderbilt University Hospital (Internal Medicine) DANIEL HAYDEN BELCHER Vanderbilt University Hospital (Internal Medicine) IAN MCRAE BIRKETT University of Texas Southwestern Affiliated Hospitals, Dallas (Pathology) MICHAEL EDWIN BROWN University of Texas Affiliated Hospitals, Houston (Pediatrics) WILLIAM NEEL BURNS University of Kentucky, Lexington (Medicine) DAVID LEE CALHOUN University of Utah, Salt Lake City (Pathology) DAVID NEAL CARNAHAN Vanderbilt University Hospital (Internal Medicine) JEFFREY BRADBURY CARTER Vanderbilt University Hospital (Surgery) JOHN THURMAN COBB University of Mississippi Affiliated Hospitals, Jackson (Pediatrics) ROBERT CHARLES COHN Hospital of the University of Pennsylvania, Philadelphia (Psychiatry) ROBERT DEAVER COLLINS, JR. Yale-New Haven Hospital, New Haven, Conn. (Internal Medicine) JAMES RICHARD COOLEY Yale-New Haven Hospital, New Haven, Conn. (Pediatrics) PHILIP LYNN CUSTER Vanderbilt University Hospital (Internal Medicine) DARLENE DAILEY Case Western Reserve Affiliated Hospitals, Cleveland, Ohio (Pathology) TAYLOR GARD FLETCHER Vanderbilt University Hospital (Pediatrics) F. GERARD FLORO Vanderbilt University Hospital (Internal Medicine) THOMAS MICHAEL FOY Strong Memorial Hospital, Rochester, N.Y. (Pediatrics) JOHN ANDREW RAINIER GRIMALDI, JR. Yale-New Haven Hospital, New Haven, Conn. (Psychiatry) RONALD WAYNE HAMNER University of Alabama Hospital, Birmingham (Internal Medicine) SANDRA GIBSON HASSINK St. Christopher's Hospital, Philadelphia, Pa. (Pediatrics) DOUGLAS CORBETT HEIMBURGER II Saint Louis University Group Hospitals, Saint Louis, Mo. (Internal Medicine) CHARLES BOMAR HERRIN Medical College of Virginia, Richmond (Internal Medicine) GARY HALL HOFFMAN Los Angeles County Medical Center, Los Angeles, Calif. (Surgery)

Nashville, Tenn. Oxon Hill, Md. Baltimore, Md. New York, N.Y. Hilo, Hawaii San Diego, Calif. Cincinnati, Ohio Tulsa, Okla. Nitro, W. Va. Nashville, Tenn. Shelton, Conn. Brunswick, Ga. New York, N.Y. Nashville, Tenn. Arkadelphia, Ark. Nashville, Tenn. Alliance, Ohio Quincy, Fla. Whittier, Calif. Saint Louis, Mo. Tampa, Fla. Shelby, N.C.

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Indianapolis, Ind.

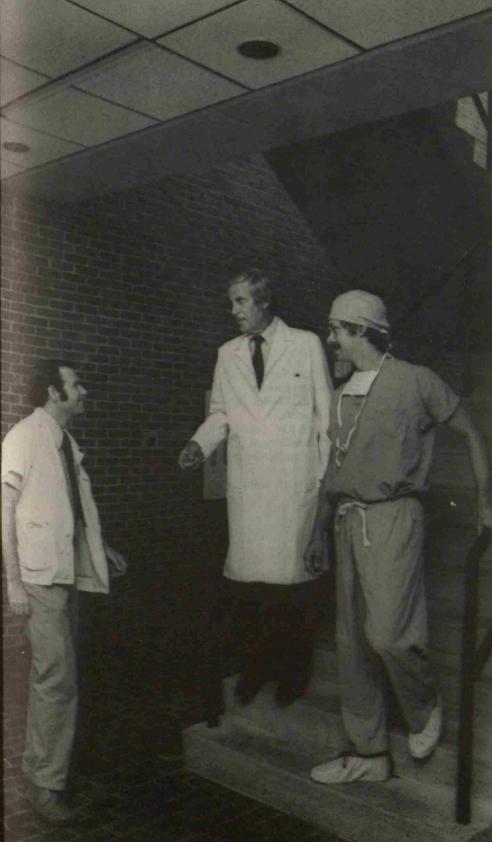
Johnson City, Tenn.

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BRENDA BROWN HOLSON	Orlando, Fla.
Children's Memorial Hospital, Chicago, III. (Pediatrics)	
CHARLES BURFORD HUDDLESTON	Sedalia, Mo.
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Vanderbilt University Hospital (Surgery)	
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Vanderbilt University Hospital (Internal Medicine)  LILLIAN CORDTS LYLE ISRAEL	Clarksville, Tenn.
University of Alabama Hospital, Birmingham (Pediatrics)	Desired Fig.
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CARL FRANK JENSEN	Ponca City, Okla.
University of Washington Affiliated Hospitals, Seattle, Wash. (Psychiatry)	Torica Oity, Onia.
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Johns Hopkins Hospital, Baltimore, Md. (Surgery)	
BLUETT EMERY JONES	Los Angeles, Calif.
Framingham Union Hospital, Framingham, Mass. (Flexible)  JANIS ADELAIDE JONES	West Palm Beach, Fla.
University of Miami Hospital, Miami, Fla. (Family Practice)	West Faili Deach, Fla.
JOHN RICHARD JONES	Nashville, Tenn.
Tripler Army Medical Center, Honolulu, Hawaii (Medicine)	
KENNETH BRUCE JONES	Scottsville, Ky.
University of Louisville Affiliated Hospitals, Louisville, Ky. (Surgery)	
PHILLIP RITCHIE JONES	Nashville, Tenn.
Baylor University Medical Center, Houston, Texas (Flexible) STEPHEN LAMAR JONES	Arlington, Va.
Walter Reed Army Medical Center, Bethesda Md. (Flexible)	Armigion, va.
THOMAS ALLAN KEITH	Joliet, III.
Vanderbilt University Hospital (Pathology)	
KATHERINE JANE KIRKEMINDE	Crossville, Tenn.
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Vanderbilt University Hospital (Internal Medicine) RODGER ALAN LIDDLE	Nashvilla Tana
University of California Hospital, San Francisco, Calif. (Internal Medicine)	Nashville, Tenn.
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Vanderbilt University Hospital (Surgery)	
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Charlotte Memorial Hospital, Charlotte, N.C. (Internal Medicine)	
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Johns Hopkins Hospital, Baltimore, Md. (Internal Medicine)	
DOUGLAS WAYNE ORR	Atlanta, Ga.
Vanderbilt University Hospital (Internal Medicine)	0-1-1- 0-17
EDSON OLIVER PARKER III Letterman Army Medical Center, San Francisco, Calif. (Surgery)	Ontario, Calif.
Army Medical Center, San Francisco, Calif. (Surgery)	

Jasper, Ind.

PAMELA JOAN GILSTAD PARKER Lake Park, Fla. Baylor University Medical Center, Houston, Texas (Pediatrics) ROBERT BRANNON PARKER Baylor University Medical Center, Houston, Texas (Internal Medicine) **NEIL HAMILTON PARNES** Princeton, N.J. University of Kentucky Medical Center, Lexington, Ky. (Internal Medicine) STEVEN FRANCIS PODGORSKI Germantown, Tenn. University of Texas Affiliated Hospitals, Houston, Texas (Pediatrics) **ELLEN ANN HUTCHESON PRICE** Nashville, Tenn. Johns Hopkins Hospital, Baltimore, Md. (Internal Medicine) MICHAEL EDWARD RICHARDS San Diego, Calit. Vanderbilt University Hospital (Radiology) DAN SUMNER SANDERS III Nashville, Tenn. Vanderbilt University Hospital (Pediatrics) JAMES MARSHALL SATT Los Angeles, Calif. University of Alabama Hospital, Huntsville (Family Practice) TIMOTHY PORTER SCHOETTLE West Memphis, Ark Vanderbilt University Hospital (Surgery) LAWRENCE GRADY SCHULL, JR. Nashville, Tenn. Los Angeles County Medical Center, Los Angeles (Internal Medicine) ROBERT WALLACE SCOTT Cleveland, Ohio Case Western Reserve Affiliated Hospitals, Cleveland, Ohio (Internal Medicine) SALLY ELIZABETH SELF Greenwood, S.C. Medical Center Hospitals of South Carolina, Charleston (Pathology) IRA ALAN SHIVITZ Fort Lee, N.J. Baylor University Medical Center, Houston, Texas (Flexible/Ophthalmology) ARTHUR CARMINE SIPPO Union City, N.J. Walter Reed Army Medical Center, Bethesda, Md. (Obstetrics/Gynecology) **DEBORAH SMITH** Brownsville, Tenn. Vanderbilt University Hospital (Pediatrics) WILLIAM JOSEPH SPANN, JR. Jacksonville, Fla. Vanderbilt University Hospital (Internal Medicine) THOMAS CRAIG SPILKER Shreveport, La. Vanderbilt University Hospital (Surgery) GARY BENNETT STRONG Dallas, Texas Children's Mercy Hospital, Kansas City, Mo. (Pediatrics) WILLIAM WADE SUTTON Nashville, Tenn. Tulane University Affiliated Hospitals, New Orleans, La. (Internal Medicine) WILLIAM VERNON WHITAKER Birmingham, Ala. Saint Louis University Group Hospitals, Saint Louis, Mo. (Internal Medicine) HENRY LYTLE WILSON, JR. Tullahoma, Tenn. Brooke Army Medical Center, San Antonio, Texas (Anesthesiology) BARRY EDWARD WIND Nashville, Tenn. University of Kentucky Medical Center, Lexington, Ky. (Internal Medicine) MICHAEL SAMUEL WOLFE England, Ark University of Arkansas Hospital, Little Rock (Flexible) CHARLES LEROY WOODROW Sherman, Texas Vanderbilt University Hospital (Surgery) Nashville, Tenn. MARY ELLA ZELENIK Vanderbilt University Hospital (Internal Medicine) PETER KEVIN ZIRKLE Knoxville, Tenn. New York University Medical Center, New York (Surgery)



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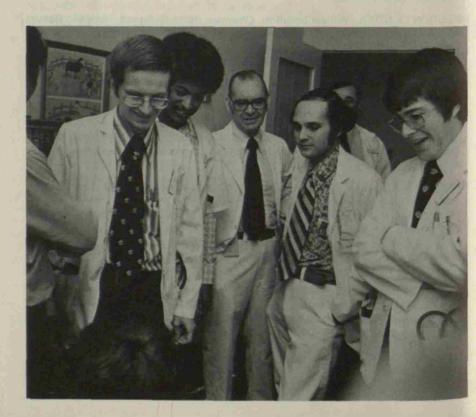
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NEUROMUSCULAR DISEASE Gerald M. Fenichel, Chief

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Peter Margand Active
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(on leave)
Charles W. Quimby, Jr. Active
James Ramsey Visiting
Paula F. Conaway Sandidge Active
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#### Neurology

GERALD M. FENICHEL, Neurologist-in-Chief

William M. Clark Active Gary Duncan Active Frank R. Freemon Active Anthony W. Kilroy Active Peter K. Law Allied Bertram E. Sprofkin Active John Sloan Warner Consulting

#### **Obstetrics and Gynecology**

LONNIE S. BURNETT, Obstetrician & Gynecologist-in-Chief

George W. Andrews Visiting Larry T. Arnold Visiting Harry Baer Visiting Donald R. Barnett Active D. Scott Bayer Visiting Russell T. Birmingham Visiting Frank H. Boehm Active James M. Brakefield Visiting Roger B. Burrus Visiting Guillermo Cadena Active Benjamin H. Caldwell, Jr. Visiting Robert L. Chalfant Visiting Jackson D. Cothren Associate George B. Crafton Visiting Angus M. G. Crook Active James F. Daniell Active Joe Michael Edwards Visiting James Wood Ellis Visiting Frederick L. Finke Visiting

Henry W. Foster Visiting Charles M. Gill Visiting Paul A. Green, Jr. Visiting Marvin G. Gregory Active Elwyn M. Grimes Active Erich B. Groos Visiting James H. Growdon, Jr. Active B. Kimbrough Hibbett III Active Charlie Joe Hobdy Visiting James W. Johnson Active Orrin Lester Jones, Jr. Visiting Conrad Julian Active Ralph R. Kling, Jr. Visiting Roland D. Lamb Visiting Horace T. Lavely, Jr. Visiting H. Newton Lovvorn, Jr. Active William D. Martin Visiting Herbert T. McCall Visiting G. Sydney McClellan Emeritus

Susan Johnson McDaniel Visiting
Charles E. McGruder Visiting
Stephen P. Melkin Visiting
James O. Miller Visiting
James B. Millis Active
Philip A. Nicholas Associate
Roy W. Parker Visiting
Robert C. Patterson, Jr. Visiting
C. Gordon Peerman, Jr. Visiting
Ron N. Rice Visiting
Mitchell K. Sanders Active

Houston Sarratt Active
William D. Sumpter, Jr. Associate
Willard O. Tirrill, Jr. Emeritus
Robert H. Tosh Visiting
John Edward Vanhooydonk Active
Thomas F. Warder Visiting
Kenneth F. Whitaker Visting
Norman E. Witthauer Visting
John S. Zelenik Active
Carl Zimmerman Visiting

#### Ophthalmology

JAMES H. ELLIOTT, Ophthalmologist-in-Chief John B. Bond III Active George W. Bounds, Jr. Active James E. Burnes Visiting Abraham Pacha Cheij Active Richard T. Coppoletti Visiting L. Rowe Driver Visiting Roy C. Ezell Visiting Wallace H. Faulk, Jr. Active Stephen S. Feman Active Walter W. Frey Active Robert R. Henderson Visiting Fowler Hollabaugh Emeritus John M. Johnson Associate G. Allen Lawrence Active James P. Loden Visiting

Philip L. Lyle Visiting
John W. McMahan Visiting
Lee Roy Minton Active
Denis M. O'Day Active
John M. Omohundro III Active
J. Ralph Rice Active
Fred A. Rowe Visiting
Joseph W. Scobey Visiting
Henry Carroll Smith Emeritus
Spencer P. Thornton Visiting
K. Shannon Tilley Visiting
Willard O. Tirrill III Visting
Gates Wayburn, Jr. Visiting
Kate Savage Zerfoss Emerita

#### Orthopedics and Rehabilitation

PAUL P. GRIFFIN, Orthopedic Surgeon-in-Chief

Arthur Leroy Brooks Active
John C. Brothers Active
Joe G. Burd Active
George K. Carpenter, Jr. Visiting
Wesley L. Coker Visiting
G. William Davis, Jr. Visiting
Mark Doyne Active
Don L. Eyler Active
Harold A. Ferguson Visiting
S. Benjamin Fowler Visiting
Donald L. Gaines Active
William M. Gavegan Associate
David W. Gaw Visiting
Neil Edward Green Active
Arnold Haber, Jr. Visiting

Charles M. Hamilton Active
Jerry Cheek Hunt Consulting
Robert K. Johnson Active
David S. Jones Visiting
Frank E. Jones Active
John W. Lamb Visiting
Lawrence P. Laughlin Associate
A. Brant Lipscomb Active
John C. McInnis Associate
Michael A. Milek Active
Andrew H. Miller Active
Jack M. Miller Visiting
Charles G. Norton Active
Thomas F. Parrish Active
Eugene M. Regen, Jr. Active

Barrett F. Rosen Active
Ronald E. Rosenthal Active
Robert V. Russell Active
William G. Sale III Visiting
Norman L. Sims Associate

Robert B. Snyder Associate
Robert E. Stein Active
E. Dewey Thomas Active
John M. Wampler Active

#### **Pathology**

WILLIAM H. HARTMANN, Pathologist-in-Chief

Robert D. Collins Active
Carla M. Davis Active
John F. Edland Active
Rufus Jack Freeman Visiting
William A. Gardner Active
Alan D. Glick Active
Susan A. Halter Active
Robert G. Horn Active
Aubrey J. Hough, Jr. Active
Jerry K. Humphreys Visiting
Virgil S. LeQuire Active
Fred V. Lucas Active

Lilia D. Mauricio Active
William M. Mitchell Active
Martin G. Netsky Active
David L. Page Active
Kamala D. Paniker Active
Adelisa L. Panlelio Active
Lloyd D. Richardson Active
Lowell W. Rogers Active
Fred W. Ryden Visiting
John L. Shapiro Active
John Brown Thomison Visiting
Frank C. Womack Visiting

#### **Pediatrics**

DAVID T. KARZON, Pediatrician-in-Chief

William A. Altemeier III Active Luther A. Beazley Active Eugene L. Bishop, Jr. Active Lindsay K. Bishop Active Robert C. Boerth Active Robert C. Bone Associate Robert J. Boucek, Jr. Active Hearn G. Bradley Emeritus Victor Braren Active lan M. Burr Active Robert Edward Burr Active Sam W. Carney, Jr. Active Norman M. Cassell Active Eric Martin Chazen Active Amos Christie Emeritus Robert B. Cotton Active William M. Doak Active William D. Donald Active Ray L. Dubuisson Active Gerald M. Fenichel Active Peggy Ferry Active John P. Fields Active William F. Fleet Active Paul C. W. Gomez Courtesy

Thomas P. Graham, Jr. Active Ralph Greenbaum Active John W. Greene Active Harry L. Greene Active Douglas C. Henry Visiting Richard M. Heller, Jr. Active Charles Hirshberg Active Anthony W. Kilroy Active Lowry D. Kirby Visiting Leonard J. Koenig Active Joseph F. Lentz Active William R. Long Active John Lukens Active Robert E. Mallard Active George C. Martin Active Susan J. McLean Active Joe Moss, Jr. Active Dewey G. Nemec Active Susan M. O'Connor Active James A. O'Neill, Jr. Active James C. Overall Emeritus James M. Perrin Active Ellen C. Perrin Active James S. Price Active

Karen H. Rhea Active
Fred C. Robinson Visiting
James S. Roloff Active
Dan S. Sanders, Jr. Active
Charles Gordon Rennick Sell Active
Sarah H. Sell Active
Elbert C. Shackleford, Jr. Consulting
William T. Slonecker Visiting
Alfred Ephraim Slonim Active
Harvey Spark Active
Mildred Stahlman Active
Joseph Steranka Active
Joe M. Strayhorn Active

Hakan Sundell Active
Richard P. Taber Active
David D. Thombs Active
Dorothy J. Turner Consulting
William Brown Wadlington Active
Ethel Walker Active
Arville V. Wheeler Active
Thomas Whitworth Active
Bernard A. Wiggins Visiting
Earl E. Wilkinson Active
G. Wallace Wood Active
Peter F. Wright Active
Thomas B. Zerfoss, Jr. Active

#### Psychiatry

MARK H. HOLLENDER, Psychiatrist-in-Chief

Georgina Abisellan Visiting Robert W. Adams, Jr. Active Harvey Asher Active Ralph I. Barr Active David Barton Active Robert F. Baxter Active Otto Billig Visiting Henry B. Brackin, Jr. Visiting James O. Brannen Active Thomas W. Campbell Active Pietro Castelnuovo-Tedesco Active William E. Coopwood Associate Charles Corbin, Jr. Visiting H. James Crecraft Visiting Miles K. Crowder Active J. Emmett Dozier, Jr. Active Joseph Fishbein Active Barbara A. Firtzgerald Active Fay M. Gaskins Active Edmon L. Green Visiting James H. Hamilton Active Frederick T. Horton Active Harold W. Jordan Active William D. Kenner Active Michael J. Keyes Active Ronald F. Kourany Active

Kent Kyger Visiting Albert R. Lawson Visiting Thomas P. Logan Active Frank H. Luton Emeritus James B. McGehee Visiting Embry A. McKee Active Earl Ninow Active William F. Orr Emeritus William M. Petrie Active Mohamed A. Ragheb Active Robert M. Reed Visiting Robert N. Reynolds Visiting Alvin B. Rosenbloom Active Louis Sampson Associate William F. Sheridan, Jr. Associate Stewart Shevitz Active Charles B. Smith Visting Frank W. Stevens Visiting Frank W. Stevens, Jr. Visiting William R. C. Stewart, Jr. Active (Died 24 July 1978) C. Richard Treadway Active Charles E. Wells Active Jane R. Weinberg Active

## Psychologists

C. Denton Buchanan Allied
Virginia Kirk Emerita
Susan Lewis Allied

Leonard Morgan Visiting
Howard B. Roback Allied
Warren W. Webb Allied

Dennis C. Workman Visiting

#### Radiology

A. EVERETTE JAMES, JR., Radiologist-in-Chief

Ronald Addlestone Active Joseph H. Allen, Jr. Active John H. Beveridge Visiting Marion G. Bolin Active Mark L. Born Active A. Bertrand Brill Active Craig Coulam Active Thomas R. Duncan Consulting Daniel C. Geddie Visiting James Gerlock, Jr. Active S. Julian Gibbs Active Victor Goncharenko Active Clifton E. Greer, Jr. Active Robert B. Grove Active Kenneth L. Haile, Jr. Active William M. Hamilton Visiting Richard M. Heller, Jr. Active Duk Un Hong Active Minyard D. Ingram Active Joseph McK. Ivie Visiting Joseph C. Jones Active

Jeremy J. Kaye Active Sandra G. Kirchner Active Samuel D. Lane Active Robert J. Linn Associate Ben R. Mayes Visiting James Richard Moyers Associate John A. Molin Active Carlos A. Muhletaler Active Ronald E. Overfield Associate Richard P. Ownbey Associate Henry P. Pendergrass Active Carl W. Rogers Active F. David Rollo Active Samuel Benton Rutledge Active Burton Silbert Visiting Clyde W. Smith Active Steven L. Stroup Active John M. Tanner Visiting Juan J. Touya, Jr. Active Marion L. Weinstein Active

## Surgical Sciences

#### Surgery

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

R. Benton Adkins, Jr. Active William C. Alford, Jr. Active Terry Allen Associate Harvey W. Bender, Jr. Active Edmund W. Benz Active Stanley Bernard Active Robert L. Bomar, Jr. Consulting Cloyce F. Bradley Active George Burrus Active Benjamin F. Byrd, Jr. Active Kenneth L. Classen Active Joseph M. Crane Active Paul S. Crane Active W. Andrew Dale Active Rollin A. Daniel, Jr. Active John Lucian Davis Visiting Richard H. Dean Active Harold C. Dennison, Jr. Active

Walter L. Diveley Consulting George E. Duncan Active William H. Edwards Active Parker Elrod Active John L. Farringer, Jr. Active Benjamin Fisher Active James C. Gardner Emeritus Sam Y. Garrett Visiting Carl N. Gessler Active Walter G. Gobbel, Jr. Active Herschel A. Graves, Jr. Active Roy G. Hammonds Visiting Robert A. Hardin Active Jackson Harris Active J. Lynwood Herrington, Jr. Robert W. Ikard Active J. Kenneth Jacobs Active James P. Lester Active

Malcolm R. Lewis Active
Robert McCracken Visiting
M. Charles McMurray Visiting
Barton McSwain Emeritus
Joe M. Miller Visiting
Joseph L. Mulheren, Jr. Associate
I. Armistead Nelson Associate
Oscar F. Noel Visiting
Philip J. Noel Active
Jefferson C. Pennington, Jr. Active
David R. Pickens, Jr. Visiting
Roy J. Renfro Active
Vernon H. Reynolds Active
Robert E. Richie Active

Douglas H. Riddell Active
Lansdon B. Robbins II Active
Louis Rosenfeld Active
Robert N. Sadler Consulting
John L. Sawyers Active
Harrison H. Shoulders, Jr. Visiting
Daugh W. Smith Emeritus
William S. Stoney, Jr. Active
Marion B. Tallent, Jr. Active
Richard B. Terry Visiting
Clarence S. Thomas, Jr. Active
Charles C. Trabue IV Visiting
Matthew Walker Active
John K. Wright Active

#### Dentistry

H. DAVID HALL, Oral Surgeon-in-Chief

George Adams Visiting
James B. Baylor Visiting
E. Thomas Carney Active
Jeffrey B. Clark Active
Herbert A. Crockett Visiting
David Denny Visiting
Frank H. DePierri, Jr. Visiting
Paul D. Elcan Visiting

S. Julian Gibbs Active
William S. Gray Visiting
Barnett J. Hall Visiting
Fred H. Hall Visiting
Fred M. Medwedeff Visiting
L. Willard Parker Associate
Rebecca Schwartz Active
Jack A. Tyson Consulting

#### **Oral Surgery**

H. DAVID HALL, Oral Surgeon-in-Chief

Samuel O. Banks, Jr. Visiting
Clyde R. Bennett Visiting
Edwin L. DeLeon Consulting
Elmore Hill Visiting
Charles J. Ladd Active

Edward H. Martin Visiting James W. Nickerson, Jr. Active Stanley C. Roddy, Jr. Active Jack C. Schmitt Visiting

## Neurological Surgery

WILLIAM F. MEACHAM, Neurosurgeon-in-Chief

Vaughn A. Allen Active
Verne E. Allen Active
Arthur G. Bond III Active
Cully A. Cobb, Jr. Active
Arthur Cushman Associate
James W. Hays Active

Ray W. Hester Active
Everette I. Howell, Jr. Active
Warren F. McPherson Active
Arnold Meirowsky Active
Charles D. Scheibert Active

## Otolaryngology

WILLIAM G. KENNON, Jr., Acting Otolaryngologist-in-Chief
Clyde V. Alley, Jr. Active Larson Dale Beck Active

J. Thomas Bryan Active
Anthony Drake Casparis Visiting
Jerrall P. Crook Visiting
William G. Davis Associate
William L. Downey Active
Michael E. Glasscock III Active
Hiranya Gowda Associate

Perry F. Harris Visiting
Daniel R. Hightower Active
William G. Kennon, Jr. Active
Gale W. Miller Counsulting
Robert C. Owen Active
Warren R. Patterson Associate

#### **Pediatric Surgery**

JAMES A. O'NEILL, Jr., Pediatric Surgeon-in-Chief George W. Holcomb, Jr. Visiting

#### **Plastic Surgery**

JOHN B. LYNCH, Chief of Plastic Surgical Service

David G. Bowers, Jr. Active
Reuben A. Bueno Associate
James H. Fleming, Jr. Active
John D. Franklin Active
John C. Frist, Jr. Active
Charles W. MacMillan Active

James Madden, Jr. Active
Takis Patikas Active
Greer Ricketson Active
Stanford Sanders Associate
Kirkland W. Todd, Jr. Active
Edward H. Withers Active

#### **Thoracic and Cardiac Surgery**

HARVEY W. BENDER, JR. Chief of Thoracic and Cardiac Service

R. Benton Adkins, Jr. Active
William C. Alford, Jr. Active
George Burrus Active
Rollin A. Daniel, Jr. Active
Walter L. Diveley Consulting
William H. Edwards Active
Walter G. Gobbel, Jr. Active
Jackson Harris Visiting
J. Kenneth Jacobs Active

Robert McCracken Visiting
Robert E. Richie Active
Douglas H. Riddell Active
Robert N. Sadler Visiting
John L. Sawyers Active
H. William Scott, Jr. Active
Issam J. Shaker Active
William S. Stoney, Jr. Active
Clarence S. Thomas, Jr. Active

#### **Urological Surgery**

ROBERT K. RHAMY, Urologist-in-Chief

Edward H. Barksdale Emeritus
Robert B. Barnett Associate
Victor Braren Active
Oscar Carter Associate
Robert A. Carter Associate
William B. Crenshaw Visiting
William P. Dutton Visiting
Robert H. Edwards Associate
Robert B. Faber Associate
John R. Furman Visiting
Keith W. Hagan Active
Charles E. Haines, Jr. Associate

Albert P. Isenhour Associate
Frederick K. Kirchner Active
Robert E. McClellan Associate
Tom E. Nesbitt Associate
Phillip P. Porch, Jr. Associate
Robert A. Sewell Visiting
Harry S. Shelley Emeritus
Michael J. Spalding Visiting
J. Douglass Trapp Visiting
John M. Tudor Visiting
Bruce I. Turner Active



First-year anatomy students spend many hours out of a formal lab setting in independent study.

## House Staff 1978-79



Figures in the right-hand column indicate the current level of the residency.

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Lori M. Adelson	Obstetrics-Gynecol
Richard C. Agnew	Surgery
Salim S. Akrabawi	Medicine
Dave A. Alexander, Jr.	Orthopedics
Mahmoud A. Amin	Anesthesiology
Robert L. Ammarell	Medicine
Allen F. Anderson	Surgery
Edwin B. Anderson, Jr.	Medicine
Charles R. Arendale	Radiology
Rex E. H. Arendall II	Surgery
Edward S. Arnold	Psychiatry
Michael F. Artman	Pediatrics
Michael E. Ashley	Surgery
Sidney W. Atkinson	Pediatrics
Jeanne F. Ballinger	Surgery
Norman A. Barnes	Anesthesiology
Jeffrey M. Barrett	Obstetrics-Gynecol
Edwin D. Batchelor	Ophthalmology
James K. Bauriedel	Urology
Timothy J. Beasley	Obstetrics-Gynecol
Patrick G. Beatty	Medicine
William C. Beazley	Surgery
Christopher J. Begley	Medicine
Daniel H. Belcher	Medicine
Robert S. Bell	Orthopedics
Daniel H. Benckart	Surgery
Rita A. Biesen	Obstetrics-Gynecol
Daniel A. Birchmore	Medicine
Michael R. Bishop	Obstetrics-Gynecol
Jerry N. Black	Ophthalmology
Clem H. Block, Jr.	Medicine
Carla Bloedel	Pediatrics
Fredricka M. Borland	Surgery
Mark M. Boucek	Pediatrics
C. Michael Bowman	Pediatrics
Rhonda K. Brennan	Psychiatry
Michael B. Brenner	Medicine
Robert A. Brimmer II	Psychiatry
Samuel A. Brody	Medicine
Joseph M. Brogdon	Neurology
Ronald W. Bronitsky	Medicine
Kenneth P. Brooks	Psychiatry

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L-1 Resident L-4 Resident L-2 Resident L-3 Resident L-2 Resident L-2 Resident L-2 Resident L-6 Chief Resident L-4 Chief Resident L-2 Resident L-2 Resident L-1 Resident L-2 Resident L-2 Resident L-2 Resident L-2 Resident L-3 Resident L-3 Chief Resident L-5 Resident L-2 Resident L-3 Resident L-1 Resident L-1 Resident L-1 Resident L-3 Resident L-2 Resident L-4 Resident L-3 Resident L-4 Chief Resident L-3 Resident L-3 Resident L-3 Resident L-3 Resident L-2 Resident L-4 Chief Resident L-2 Resident L-6 Chief Resident L-1 Resident L-2 Resident L-2 Resident L-2 Resident

L-4 Resident

Douglas H. Brown	Obstetrics-Gynecology	L-3 Resident
Jeffrey H. Brown	Medicine	L-3 Resident
Ruskin W. Brown	Urology	L-3 Resident
John Bruno III	Orthopedics	L-5 Chief Resident
Glenn S. Buckspan	Surgery	L-5 Chief Resident
Paul W. Burke, Jr.	Surgery	L-2 Resident
Donald P. Burney	Thoracic Surgery	L-7 Chief Resident
Russell F. Burns	Medicine	L-1 Resident
Sharon R. Calef	Radiology	L-1 Resident
David N. Carnahan	Medicine	L-1 Resident
Linda G. Carr	Radiology	L-3 Resident
James A. Carson	Surgery	L-5 Chief Resident
Jeffrey B. Carter	Surgery	L-1 Resident
Peter S. Cartwright	Obstetrics-Gynecology	L-2 Resident
Robin H. Chapman	Orthopedics	L-5 Resident
Lily H. Chen	Anesthesiology	L-2 Resident
Usup Choi	Orthopedics	L-5 Resident
Charles D. Christian, Jr.	Medicine	L-1 Resident
Mark R. Christofersen	Surgery	
Charles H. Clark III	Neurosurgery	L-1 Resident
Douglas A. Clark	Medicine	L-4 Hesidelit
Jerrold A. Clark	Pathology	L-2 Resident
Clyde H. Climer		L-2 Resident
Dan E. Connor	Obstetrics-Gynecology	L-1 Resident
Lindsey W. Cooper	Pathology	L-3 Resident
Ann R. Costello	Oral Surgery	L-3 Chief Resident
John E. Costello	Medicine Medicine	L-2 Resident
Mark R. Crowell	Modifie	L-1 Resident
Sidney S. Curry	Anesthesiology	L-2 Resident
William A. Curry	Medicine Medicine	L-4 Resident
Shannon R. Curtis	Modifie	L-3 Resident
Philip L. Custer	Orthopedics	L-4 Resident
Charles W. Daniels	Medicine	L-1 Resident
Jesse T. Davidson III	Medicine	L-3 Resident
Ben W. Davis	Surgery	L-3 Resident
Richard J. Davis	Pathology	L-2 Resident
Achillas A Davis	Obstetrics-Gynecology	L-3 Resident
Achilles A. Demetriou	Surgery	L-5 Resident
David B. Dodson	Medicine	L-3 Resident
Robert M. Donnell	Pathology	L-2 Resident
Paul M. Doroghazi	Surgery	L-1 Resident
Paul M. Douthitt	Pediatrics	L-1 Resident
Deborah R. Doyle	Medicine	L-2 Resident
Robert L. Dubuisson	Radiology	L-2 Resident
Edward J. Dunn	Thoracic Surgery	L-6 Resident
Thaddeus L. Dunn	Medicine	L-1 Resident
Eric L. Dyer	Medicine	L-3 Resident
Andrew S. Edgar, Sr.	Anesthesiology	L-2 Resident
Gerald W. Edgers	Pathology	L-1 Resident
Luke L. Ellenburg .lr	Ophthalmology	L-4 Chief Resident
WIChael C. Filis	Radiology	L-1 Resident
Harold G. Erath, Jr.	Surgery	L-4 Resident

1-2 Resident

1-3 Resident

Deborah Erdman Walter L. Erhardt, Jr. Douglas J. Erickson Aaron M. Esbenshade, Jr. Steven J Eskind Owen B. Evans. Jr. Robert M. Evans Thomas C. Farrar James W. Felch Allan S. Fielding Robert E. Finelli Frederick E. Finger III Francis H. Fischer, Jr. Judith Fischer Arthur C. Fleischer Taylor G. Fletcher F. Gerard Floro Edward P. Fody Daniel T. Fowler William A Freeborn Linda R. Frey Robert Friedman William J. Fulkerson, Jr. Phyllis J. Frostenson Steven S. Gale Roger A. Ganfield William T. Garland, Jr. Arnulfo R. Garza-Vale Boyd B. Gasque, Jr. James C. Gay Robert E. Gentry Caroline Gibbes Paul P. Gilbert Melvin L. Goldin James C. Grav Kevin F. Grav Patrick R. Green Arthur Grimball William E. Grizzle Michael A. Gruber Larry D. Gurley Curt H. Hagedorn Alexander J. Haick, Jr. John D. Hainsworth William R. Hammond Peter Harcy Julia A. Hardy Jay A. Harolds Stephen S. Hawkins Clarke L. Henry, Jr. Jose G. Hernandez

Obstetrics-Gynecology Plastic Surgery Pathology Medicine Surgery Neurology Medicine Anesthesiology Ophthalmology Surgery Neurosurgery Neurosurgery Pediatrics Obstetrics-Gynecology Radiology Pediatrics Medicine Pathology Radiology Urology Psychiatry Medicine Medicine Radiology Surgery Anesthesiology Medicine Neurosurgery Radiology Pediatrics Medicine Ophthalmology Surgery Psychiatry Obstetrics-Gynecology Psychiatry Medicine Surgery Pathology Surgery Obstetrics-Gynecology Medicine Surgery Medicine Medicine Radiology Psychiatry Radiology Medicine Surgery

Thoracic Surgery

L-6 Chief Resident L-1 Resident L-2 Resident I -4 Resident L-1 Resident L-1 Resident

1-2 Resident L-2 Resident L-5 Resident 1-3 Resident L-3 Resident I -4 Resident L-3 Resident L-1 Resident 1-1 Resident L-5 Resident L-4 Resident 1-5 Chief Resident L-1 Resident L-3 Resident L-2 Resident I-1 Resident 1-5 Chief Resident 1-2 Chief Resident L-1 Chief Resident L-6 Chief Resident L-2 Resident L-1 Resident L-3 Resident L-4 Chief Resident L-2 Resident L-3 Resident 1-3 Resident L-2 Resident L-1 Resident L-1 Resident L-1 Resident L-2 Resident L-2 Resident L-3 Resident L-2 Resident L-3 Resident L-2 Resident L-3 Resident L-2 Resident L-5 Resident L-3 Resident L-1 Resident L-6 Resident

Waters M. Hicks, Jr.	Medicine	L-6 Chief Resident
Gerald B. Hickson	Pediatrics	L-1 Resident
Stephen L. Hines	Medicine	L-2 Resident
James M. Hinson, Jr.	Medicine	L-3 Resident
Patrick Ho	Ophthalmology	L-3 Resident
Karl E. Hofammann	Orthopedics	L-4 Resident
Gerald B. Hogsette, Jr.	Medicine	L-6 Chief Resident
Hugh D. Holliday	Medicine	L-3 Resident
George E. Howell II	Surgery	L-4 Resident
Charles B. Huddleston	Medicine Commons	L-1 Resident
John G. Huff	Radiology	L-2 Resident
Timothy K. Hulsey	Surgery	L-5 Resident
Stinson E. Humphrey	Surgery	L-1 Resident
Charles E. Hunter, Jr.	Surgery	L-4 Resident
Patrick T. Hunter II	Medicine	L-1 Resident
Robert M. Hunter	Surgery	L-1 Resident
William W. Hunter, Jr.	Radiology	L-4 Resident
Grant W. Huntzinger	Radiology	L-2 Resident
Ghazala Hussain	Psychiatry	L-1 Resident
Kurt A. Jaeckle	Neurology	L-2 Resident
Robert C. Jamieson	Psychiatry	L-4 Chief Resident
Elizabeth Jennings	Pediatrics Pediatrics	L-3 Resident
Henry S. Jennings III	Medicine	L-2 Resident
Carl M. Johnson	Surgery	L-1 Resident
Christopher M. Johnson	Pediatrics	L-1 Resident
Jeffrey M. Johnston	Medicine	L-1 Resident
Howard Jolles	Radiology	L-3 Resident
Christopher R. Jones	Surgery	L-4 Resident
Roger C. Jones	Medicine	L-2 Resident
Thomas B. Jones	Radiology	L-3 Resident
William B. Jones	Urology	L-5 Resident
Lawrence A. Judy	Medicine	L-2 Resident
J. Reddy Kambam	Anesthesiology	L-4 Resident
Duangjai O. Kasantikul	Psychiatry	L-4 Resident
Vira Kasantikul	Pathology	L-3 Resident
Lon A. Keith	Medicine	L-2 Resident
Thomas A. Keith	Pathology	L-1 Resident
Philip L. Kelton, Jr.	Plastic Surgery	L-6 Chief Resident
Allen R. Kessler II	Surgery	L-3 Resident
Uzma Khalid	Psychiatry	L-4 Resident
Robert W. Kieffer	Surgery	L-1 Resident
Linza T. Killion	Surgery	L-1 Resident
Nancy M. Kirk	Surgery	L-1 Resident
William S. Kirk Jr	Oral Surgery	L-1 Resident
noy A. Kite	Pediatrics	L-3 Resident
Kerry L. Kline	Obstetrics-Gynecology	L-1 Resident
Hobert M. Kropp	Pediatrics	L-2 Resident
Noduri V. Kumar	Anesthesiology	L-4 Resident
Sarma R. Kunda	Anesthesiology	L-3 Resident
Samuel J. Kuykendall	Obstetrics-Gynecology	L-3 Resident
Robert H. Latham	Medicine Medicine	L-2 Resident
- Carrain	Wicolding.	L-E Hoolden

The same of the sa
Kenneth H. Laws
James D. Lawson
Alice I. Lawver
John W. Lea IV
Sandra R. Leavell
Buford B. Ledbetter
Russell B. Leftwich
Stephen S. Lexow
Michael J. Lichtenstein
Joseph A. Little III
Michael A. Lojek
George W. Lovett
Bruce A. Lowe
Edwin R. Lowery, Jr.
Linda S. Lundin
Flavian M. Lupinetti
Ronald B. Lynn
Michael L. Maggart
Stuart H. Manning
Michael D. Maples
Jay M. Marion
James T. Martin
John M. Mathis
John T. Matthews
James H. Maxwell
Jan A. Mayer
Linda C. Mayes
Paul R. McCombs III
Ellen C. McCormick
Thomas L. McCurley
Donald M. McIntosh
Charles E. McKay III
Charles R. McKeen
Michael J. McLean
David M. McLellan
Joseph R. McMullen
Patrick W. Meacham
Raymond L. Meneely
James W. Menzie
Jean-Francois Mercier
Paul R. Michael
Gary A. Militana
Michael E. Miller
Ronald V. Miller
Georgia D. Montouris
Richard D. Moore
Robert M. Moore
David H. Morgan
Gordon W. Moughon
Ramona W. Mrak
Betty Ann Muller
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Surgery
Surgery
Neurology
Surgery
Psychiatry
Obstetrics-Gynecology
Medicine
Neurology
Medicine
Pediatrics
Medicine
Medicine
Urology
Orthopedics
Psychiatry
Surgery
Neurology
Surgery
Medicine
Surgery
Medicine
Neurology
Radiology
Surgery
Radiology
Psychiatry
Pediatrics
Neurosurgery
Medicine
Pathology
Medicine
Medicine
Surgery
Medicine
Surgery
Oral Surgery
Surgery
Pediatrics
Anesthesiology
Surgery
Medicine
Radiology
Medicine
Pediatrics
Neurology
Medicine
Orthopedics
Urology
Medicine
Obstetrics-Gynecology
Psychiatry

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Jennifer L. Najjar	Pediatrics	L-2 Resident
Elmer P. Nance	Radiology	L-3 Resident
John W. Neblett, Jr.	Surgery	L-2 Resident
Betty Neff	Obstetrics-Gynecology	L-2 Resident
Donald C. Nelson	Medicine	L-2 Resident
Carol A. Nieroda	Surgery	L-1 Resident
Alexander F. Nieto, Jr.	Surgery	L-1 Resident
Kenneth G. Nix, Jr.	Medicine	L-2 Resident
William A. Nylander	Surgery	L-2 Resident
Steven R. Nyquist	Psychiatry	L-4 Resident
John W. O'Donnell III	Obstetrics-Gynecology	L-4 Resident
Edward H. Oldfield	Neurosurgery	L-5 Resident
Barbara J. Olson	Neurology	L-3 Resident
Douglas W. Orr	Medicine	L-1 Resident
Andrew J. Padgug	Radiology	L-1 Resident
Bert E. Park	Neurosurgery	L-6 Chief Resident
Telfair H. Parker	Surgery	L-6 Chief Resident
Paul D. Parsons	Surgery	L-1 Resident
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Richard M. Pearlstein	Orthopedics	L-4 Resident
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Lorna W. Peck	Medicine	L-1 Resident
Angel Perales	Anesthesiology	L-1 Resident
Wendy A. Peterson	Medicine	L-2 Resident
Michael R. Petracek	Surgery	L-6 Chief Resident
Ross E. Pettit	Neurology	L-5 Chief Resident
Richard R. Peyton	Radiology	L-2 Resident
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J. Rush Pierce, Jr.	Medicine	L-2 Resident
Richard D. Pinson	Medicine	L-3 Resident
Mark A. Piper	Oral Surgery	L-1 Resident
Joseph M. Plunkett	Urology	L-3 Resident
Robert J. Plunkett, Jr.	Surgery	L-1 Resident
James R. Polk, Jr.	Medicine	L-3 Resident
Lester L. Porter III	Medicine	L-3 Resident
David N. Posnett	Medicine	L-3 Resident
Jeffrey C. Posnick	Oral Surgery	L-2 Resident
Charles S. Powell	Surgery	L-1 Resident
Thomas A. Powers	Radiology	L-3 Resident
Dennis B. Pursel	Anesthesiology	L-2 Resident
James A. Rang	Orthopedics	L-5 Chief Resident
Samyukta C. Reddy	Anesthesiology	L-3 Resident
Gary L. Reed	Surgery	L-1 Resident
Michael S. Rees	Medicine	L-3 Resident
Hiley S. Rees	Plastic Surgery	L-6 Resident
C. Michael Reing	Obstetrics-Gynecology	L-5 Resident
Michael E. Richards	Radiology	L-1 Resident
William W. Robertson Jr.	Orthopedics	L-5 Chief Resident
Charles L. Robinette, Jr.	Radiology	L-1 Resident
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Surgery Radiology Medicine Ophthalmology Neurology Pathology Pediatrics Surgery Psychiatry Surgery Orthopedics Surgery Medicine Ophthalmology Obstetrics-Gynecology Plastic Surgery Anesthesiology Medicine Obstetrics-Gynecology Medicine Pediatrics Psychiatry Medicine **Pediatrics** Surgery Surgery Orthopedics Medicine Radiology Obstetrics-Gynecology Medicine Medicine Anesthesiology Medicine Pathology Anesthesiology Medicine Radiology Obstetrics-Gynecology Medicine Medicine Anesthesiology Pediatrics Thoracic Surgery Pediatrics Orthopedics Urology Pediatrics Surgery Psychiatry Radiology

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L-1 Resident

L-3 Resident

L-4 Resident

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# Communicating With The School of Medicine

Correspondence with the School of Medicine will be expedited if initial communications are directed as follows:

#### General Academic Matters:

John E. Chapman, M.D., Dean School of Medicine D-3300 Medical Center Vanderbilt University Nashville, Tennessee 37232 Telephone: (615) 322-2164

#### M.D.-Ph.D. program:

Richard M. Scott, *Director*Office of Student Services
School of Medicine
103 Rudolph A. Light Hall
Vanderbilt University
Nashville, Tennessee 37232

#### Graduate admissions:

Ernest O. Campbell, Dean Graduate School 336 Kirkland Hall Vanderbilt University Nashville, Tennessee 37240

# Employment opportunities for spouses:

Vanderbilt Employment Center 1103 Baker Building 110 Twenty-first Avenue South Nashville, Tennessee 37203

## Admissions, scholarships, and financial aid

Richard M. Scott, *Director*Office of Student Services
School of Medicine
103 Rudolph A. Light Hall
Vanderbilt University
Nashville, Tennessee 37232

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