

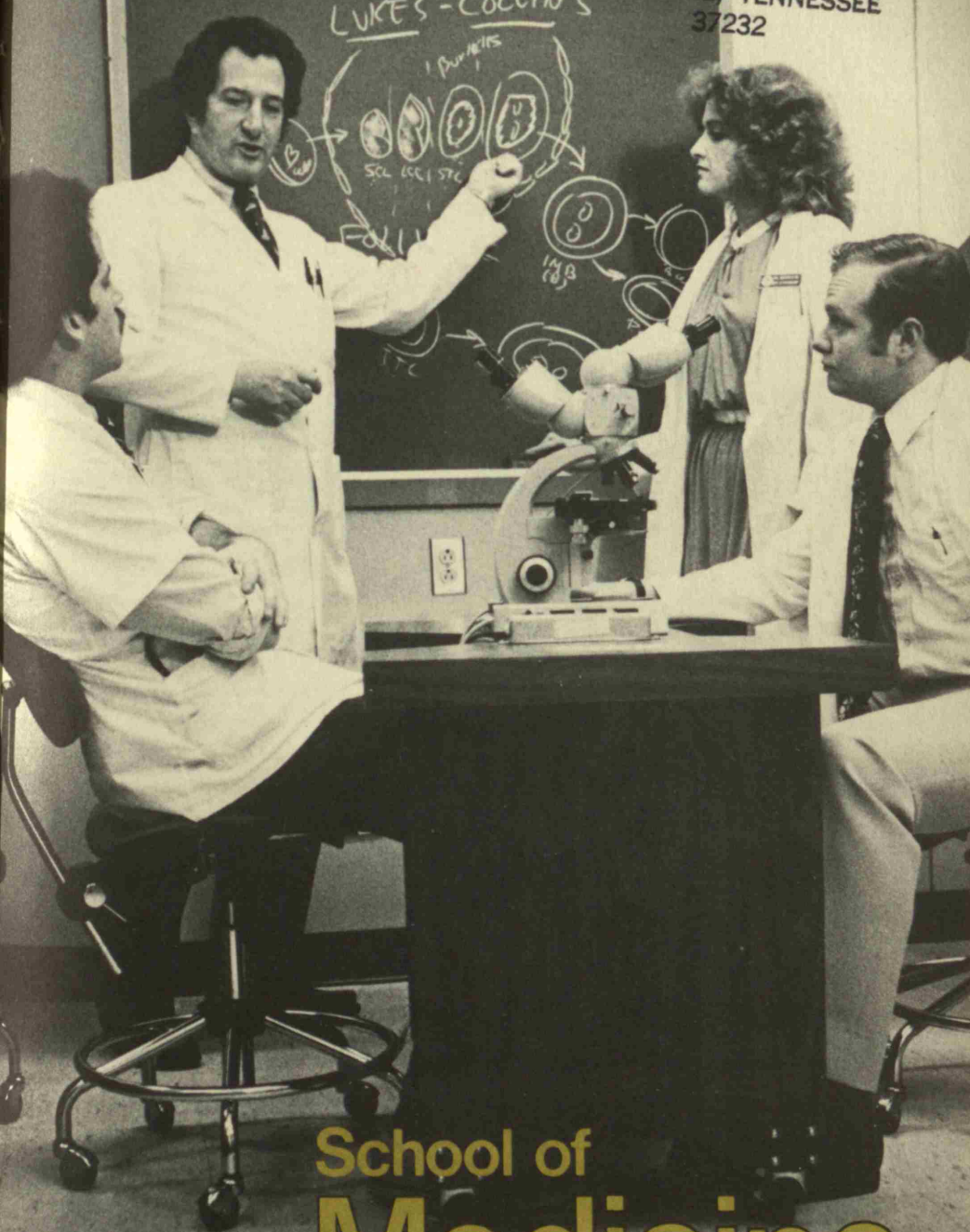
The Bulletin of Vanderbilt University

1980-81

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School of Medicine

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THE BULLETIN OF VANDERBILT UNIVERSITY
Volume 80, Number 9 **February 1981**

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Bulletins of the College of Arts and Science, School of Engineering, School of Nursing, and George Peabody College for Teachers are available on request from the Office of Undergraduate Admissions. Bulletins of the Graduate School and all professional schools of the University are available on request from the dean of the appropriate school.

Vanderbilt University School of Medicine





HAROLD
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School of Medicine



Vanderbilt
University
1980-81

Containing general information
appointments and courses of study
for the 1980-81 session
corrected to 1 August 1980
Nashville

School of Medicine Calendar, 1980-81

FALL SEMESTER 1980

Registration 3rd year / Monday 25 August
Registration 4th Year / Monday 25 August to 26 August
Registration 1st and 2nd years / Tuesday 27 August to 28 August
Classes begin 4th year / Wednesday 27 August
Classes begin 1st and 2nd years / Friday 29 August
Homecoming / Saturday 25 October
Thanksgiving holidays / Wednesday 26 November and 27 November
Examination period 1st and 2nd years / Monday 15 December to 19 December
Fall semester ends / Friday 19 December

SPRING SEMESTER 1981

Spring semester begins / Monday 5 January
Spring holidays 1st and 2nd years / Sunday 8 March to 15 March
Spring holidays 4th year / Thursday 12 March to 15 March
Founder's Day / Tuesday 17 March
Spring holidays 3rd year / Sunday 5 April to 12 April
National Boards (Part II) 4th year / Tuesday 7 April to 8 April
Instruction ends 4th year / Saturday 2 May
Examination period 1st and 2nd years / Monday 4 May to 7 May
Commencement / Friday 15 May
National Boards (Part I) 2nd year / Tuesday 9 June to 10 June
Examination period 3rd year / Monday 22 June to 25 June

Contents



Calendar	4
Administration Standing Committees	11
On Becoming a Physician	19
Admission	31
The Academic Program Curriculum Tables	35
Center for Health Services	45
The M.D. / Ph.D. Program	47
Academic Regulations	51
Lectureships	55
Honors and Awards	59
Life at Vanderbilt Housing Facilities Food Services Health Service	61
Financial Information Tuition and Fees Financial Assistance	67
Advanced Training and Research Endowed Research Chairs Endowed Research Funds	75
Courses of Study	79
Register of Students	132
Hospital Administration and Staff	146
Index	170

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EXECUTIVE COMMITTEE OF THE EXECUTIVE FACULTY. John E. Chapman, *Chairman*, Leon W. Cunningham, Charles Federspiel, William H. Hartmann, Albert S. Kaplan, David T. Karzon.

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., Sandra R. Leavell, Robert A. Neal, David M. Regen, F. David Rollo, Sarah H. Sell, 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.

Alvin M. Burt III, Richard H. Dean, Francis W. Gluck, Jr., Neil Edward Green, Susan Halter, Robert G. Horn, Sanford B. Krantz, Paulette G. Lankford, H. C. Meng, Raphael Smith.

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. Susan A. Halter, *Chairman*. M. Lawrence Berman, Boert J. Boucek, Jr., Loyd S. Pettegrew, Jack N. Wells, Raymond L. Woosley.

FACULTY. Neil Edward Green, *Chairman*. Stephen S. Feman, Russell Love, Martin G. Netsky, David Rabin, Conrad Wagner.

HOUSESTAFF. Richard H. Dean, *Chairman*. John M. Flexner, James W. Johnson, George C. Martin, Bruce I. Turner, Thomas Whitworth.

GOALS AND GOVERNANCE. Paulette G. Lankford, *Chairman*. Robert C. Bone, Fay M. Gaskins, Robert E. Handte, Henry P. Pendergrass, Ronald E. Rosenthal.

HEALTH CARE. Raphael Smith, *Chairman*. Daniel E. Costello, Lewis B. Lefkowitz, Rodney A. Lorenz, James M. Perrin, Clyde W. Smith.

MEDICAL EDUCATION. Robert G. Horn, *Chairman*. Daniel M. Buxbaum, Dixie W. Frederiksen, Francis W. Gluck, Jr., Howard S. Kirshner, F. David Rollo.

Clinical Research Center

The Clinical Research Center Advisory 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.

William W. Lacy, *Chairman*. Lloyd E. King, Jr., Sanford B. Krantz, William M. Mitchell, David N. Orth, J. David Puett, David M. Regen, Mildred Stahlman, 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.

Paul E. Slaton, Jr., *Chairman*. Frank H. Boehm, Miles K. Crowder, John S. Derbyberry, Thomas P. Graham, Jr., Ronald E. Rosenthal, John L. Sawyers, Steven L. Stroup. *Ex officio*: Daniel M. Buxbaum, Addison B. Scoville, Jr.

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, Leon W. Cunningham, Lloyd Elam, James H. Elliott, Paul P. Griffin, William H. Hartmann, A. Everette James, Jr., Grant W. Liddle, Fred V. Lucas, H. William Scott, Jr. *Ex officio*: Joseph C. Gillespie, Walter G. Gobbel, Jr.

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*. Daniel G. Colley, John G. Coniglio, Sandra G. Kirchner, James Patrick O'Leary, James D. Snell, Jr. *Student Representatives*: Blair Dillard Erb, Jr., Daniel M. Green, Robert W. Holloway, David Franklin Raney.

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 Lukens, *Chairman*. John H. Exton, William H. Hartmann, A. Everette James, Jr., Allen P. Killam, Steven Schenker, Conrad Wagner, Grant R. Wilkinson.

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 S. LeQuire, Sue A. Moyer, Peter W. Reed, Jay Sanders.

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

William P. Smith, *Chairman*. Robert R. Appleson, Robert Coleman, Fay M. Gaskins, Walter R. Gove, Ellen Bradford Lea, Jum C. Nunnally, Richard D. Odom, James M. Perrin, Suzanne M. Rothacker, David Slabosky.

Health Sciences Committee

Richard S. Stein, *Chairman*. Robert A. Branch, C. Denton Buchanan, Barbara Chazen, Mary Louise Donaldson, Ellen Bradford Lea, Fred V. Lucas, John B. Marshall, H. C. Meng, Joan Sivley, James D. Snell, Jr., Mildred Stahlman, Juan Touya, Benjamin J. Wilson.

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 M. 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.

Wayland J. Hayes, Jr., *Chairman*. Daniel M. Buxbaum, Charles F. Federspiel, Dorothy M. Kent, Paulette G. Lankford, Lewis B. Lefkowitz, Jr., H. C. Meng.
Student Member: Bill McConnell. *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*. Miles K. Crowder, Gary Duncan, Loren H. Hoffman, A. G. Kasselberg, Lewis B. Lefkowitz, L. Clifford McKee, Richard W. Moyer, Thomas Guv Pennington, David M. Regen, Ronald E. Rosenthal, Grant R. Wilkinson. *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*. John G. Coniglio, Gary Duncan, John M. Leonard, John Lukens, James A. O'Neill, Jr., Pauline Rabin, Ronald L. Rosenthal. *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*. Marcus C. Houston, Anthony W. Kilroy, William M. Mitchell, John H. Newman. *Student Representatives*: Lawrence L. Sanders, Ronald Ray Winek.

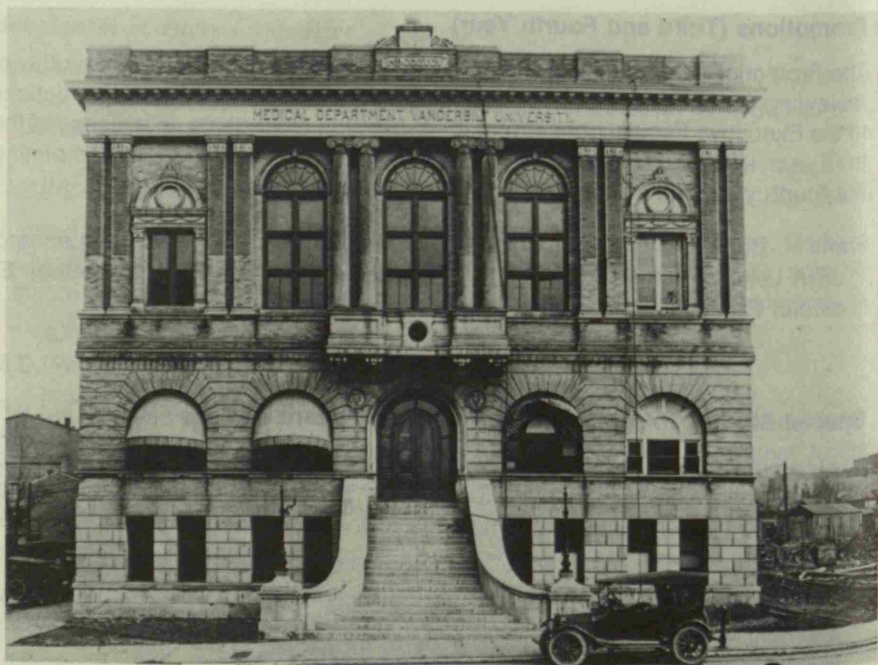
University Animal Care Committee

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.

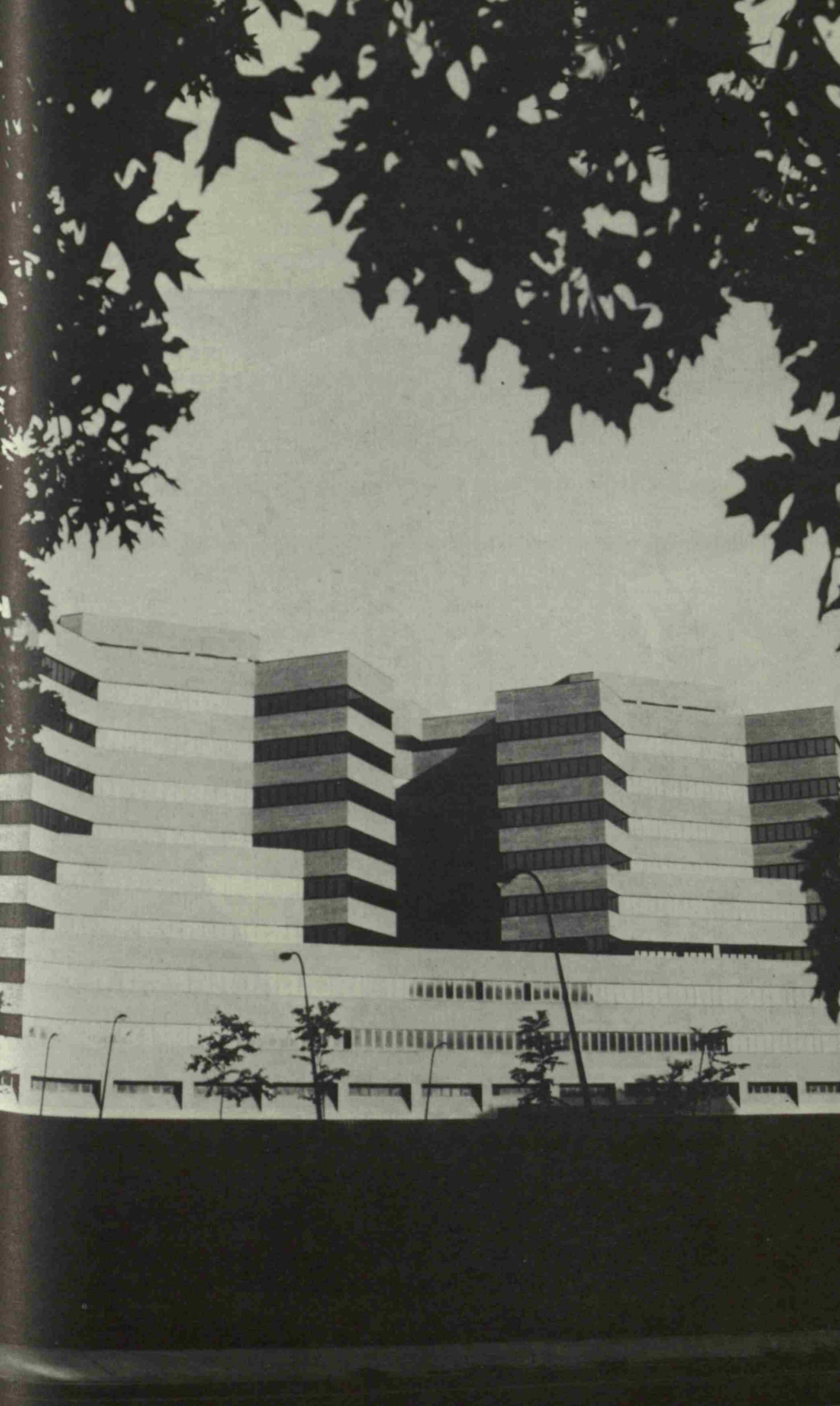
The committee will be free to consult with and take recommendations to the Vice-President for Medical Affairs, the Provost and Executive Vice-President, and the deans of the various schools of the University as it formulates and reviews animal care policies.

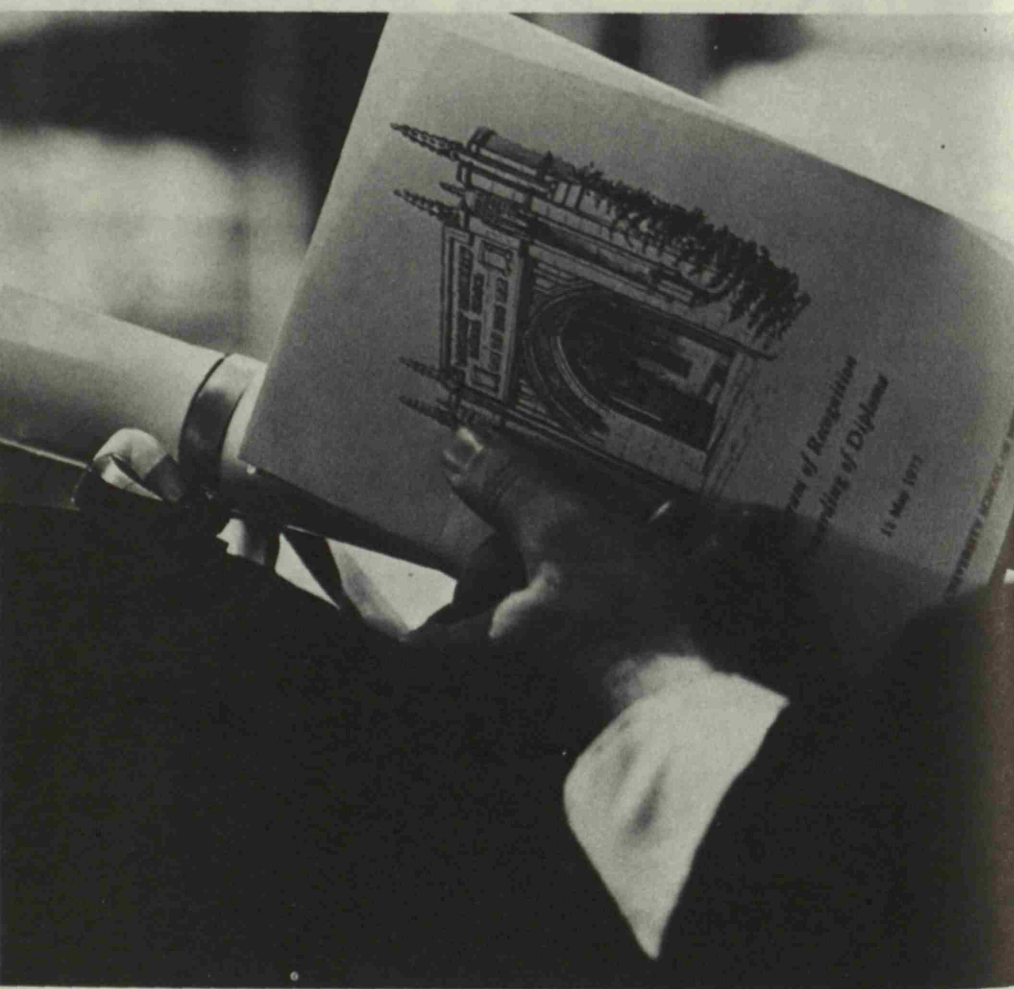
Gary Novak, *Chairman*. Lillian Andersen, Robert R. Appleson, Thomas F. Barnes, Robert J. Barrett, Robert C. Boerth, Richard H. Dean, Francis W. Gluck, Jr., Myron Holscher, James McKanna, John E. Liljenquist, Laken G. Warnock, Marie Tallman Wasson, John A. Waterman.



This building on the old south campus served the Medical School until 1925.

The new Vanderbilt University Hospital, completed 1980.





On Becoming a Physician



VANDERBILT 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 104 first-year students in 1980 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

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.

Mission of the School of Medicine

Vanderbilt University School of Medicine is an integral part of the University, and as such is a community of scholars devoted to the acquisition and dissemination of knowledge.

Education. Our mission is to educate physicians at all levels of their professional experience: undergraduate medical school—postgraduate education, including basic science and clinical experience—and continuing education in both formal and informal settings. Education is a life-long experience, and we seek to provide our students with the attitudes and background, based on sound biomedical science, to continue their education. We seek to provide every medical student with access to examples of the highest standards of biomedical investigation and clinical practice in as many areas of medicine as are feasible within the limits of a four-year course of study. The desired end is a graduate

who has been challenged and stimulated by the best there is to offer in all branches of medicine. Then, and only then, will we have provided potential physicians with the knowledge necessary to select careers most appropriate to their interests and talents and to contribute in any areas they select.

Research. In addition to teaching, the faculty of the medical school has an additional and overlapping role as part of a university in the generation of new knowledge through research of the highest quality. Inculcation of the spirit of inquiry in students requires exposure to an inquiring faculty. Research should encompass both basic scientific questions and clinical problems, and problems related to the health care system itself. The rigor of inquiry should be equal in all areas of problem solving, and scientific excellence should be the guiding principle of its execution.

Patient Care. A teaching hospital and its extensions into ambulatory care constitute a classroom based on high academic standards. The clinical facility also provides the faculty with a laboratory setting for clinical research. The initiation of model programs of health care delivery, at primary, secondary, and tertiary levels, is consistent with our responsibility toward community service in the widest context.

Faculty members also have a responsibility as role models for young physicians. The teaching and practice of exemplary patient care of all levels will assure our participation in the provision of the highest qualified physicians of the future.

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 8,000. 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 281-acre campus is about one-and-a-half miles from the downtown 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 nine 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.

School of Medicine. Doctor of Medicine.

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

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

George Peabody College for Teachers. Bachelor of Science.

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 and the Junior League Home, 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 1925 physical facilities now contained within Medical Center North. Dr. Robinson was also responsible for establishing the intellectual climate which remains a characteristic 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 recognizes and honors individuals for interest in and financial support of the Medical Center. Robinson Society members participate in a variety of programs throughout the year and serve in an active role 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 which was completed in June 1980. The new hospital contains about 460,000 square feet of enclosed space.

Some of the principal units that constitute the Medical Center are included in the following list:

Rudolph A. Light Hall. Completed in 1977, this medical education building, of major significance to the School of Medicine, provides classroom and laboratory space for teaching and research. It houses the departments of Biochemistry and Physiology. The Howard Hughes Medical Institute occupies the seventh floor of the building. Named for Dr. Rudolph A. Light, former professor of surgery and member of the Board of Trust, Light Hall is connected by tunnels to the West Wing of Medical Center North and to the Hospital.

Vanderbilt University Hospital. The new Hospital, including Chil-

dren's Hospital and the Junior League Home, replaces 524 of the 545 beds in Vanderbilt Hospital. The basement and first four floors form a solid foundation for two inpatient towers which are connected by an elevator tower. The lower floors house emergency rooms, ancillary services (such as EEG and EKG), radiology, twenty operating rooms, an obstetrical floor with nurseries, surgical intensive care units, pharmacy, supply distribution system, clean supply room, one floor of mechanical support systems, and a 140-car parking area.

Each of the patient floors has two nursing cores, one each for the north and south towers. The central core connecting the two patient towers contains elevators, conference rooms, and waiting rooms for visitors.

At the fifth floor level, there is a unique "playground in the sky" for youngsters in the Children's Hospital and Junior League Home. This spacious courtyard utilizes the roof of the fourth floor as a playground so that children have access to outdoor recreation just a few steps from their rooms.

Medical Center North. Outpatient clinics, outpatient radiology, the 21-bed Newman Clinical Research Center, dietary services, most other support functions such as laboratories, materials distribution, laundry, and linen are in Medical Center North.

Faculty and administrative offices and research space for all departments except Biochemistry and Physiology are in this facility. Physical Therapy for both inpatients and outpatients also remains in Medical Center North in the round wing.

The original portions of the building were completed in 1925. Since that time, several additions have been made:

A. B. Learned Laboratories. Completed in 1961, dedicated primarily to research in the basic sciences, this building is shared with the general University and is attached to Medical Center North at the north side.

West Wing. Known as the "Round Wing," this portion was completed in 1962.

West Court Building. Completed in 1964, this building is entered off the plaza connecting Medical Center North with the new buildings.

Joe and Howard Werthan Building. Completed in 1972, this building fronts on 21st Avenue South.

Zerfoss Student Health. Completed in 1967, the Zerfoss building is located north of the Round Wing.

Northwest Court. Completed in 1967, this wing is located north of the Round Wing.

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

Medical Center South. Includes inpatient facilities for Child Psychiatry, the Jerry Lewis Neuromuscular Disease Research Center, the Comprehensive Development Evaluation Center, and some other offices.

Langford Auditorium. Completed in 1977, the 1,200 seat facility is for general University use, though located in the Medical Center area and managed by Medical Center personnel.

Bill Wilkerson Hearing and Speech Center. A community-operated diagnostic and treatment center for audiological and speech problems, located at Edgehill Avenue and 19th Avenue South.

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, and with the Howard Hughes Medical Institute (which occupies the seventh floor of Rudolph A. Light Hall). 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 North-east Wing of the Medical Center in 1964; these quarters were improved and expanded in 1977. The 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 School of Medicine provides the major portion of the library's budget, with additional support coming from the School of Nursing, the Hospital and other sources.

The library contains over 115,000 volumes, of which about two-thirds are bound periodicals. It receives more than 1,400 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 also has a collection in the History of Nutrition and of personal papers of prominent medical educators and researchers. Individuals represented in these collections include:

Amos Christie, Paul Fitzsimmons Eve, Joseph Goldberger, Rudolph H. Kampmeier, and W. Henry Sebrell, Jr. The library is the official archive of the Medical Center.

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; document delivery; and the usual circulation, reserve book circulation, and copying services. There is on-line access to MEDLINE and the many other computer-based information retrieval services that are now available. The library participates in various cooperative ventures and projects, including the Southeastern Regional Medical Library Program (SERMLP) and the Southeastern Library Network (SOLINET).

In addition to the resources of the Medical Center Library, readers have access to the total resources of the Vanderbilt University Library, numbering some 1,400,000 volumes. They are housed in the Central, Divinity, Education, Law, Management, and Science Libraries.

Development of the Medical Center 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., Director

BYRD S. HELGUERA, M.L.S., Associate Director, and Assistant Director for Public Services

FRANCES H. LYNNCH, M.L.S., Assistant Director for Technical Services and Collections

Development

MARY LOUISE GLADISH, M.S.P.H., M.A., M.L.S., Head Reference Librarian

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

LINDE BRACEY, M.L.S., Serials Librarian

CAROL E. LEWIS, A.M.L.S., Reference Librarian

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

WILLIAM J. DARBY, M.D., Ph.D., Honorary Curator for Special Medical Collections—Nutrition

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

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 and Scarritt College for Christian Workers. An interchange of courses is permitted among the member institutions subject to availability of space.

The City

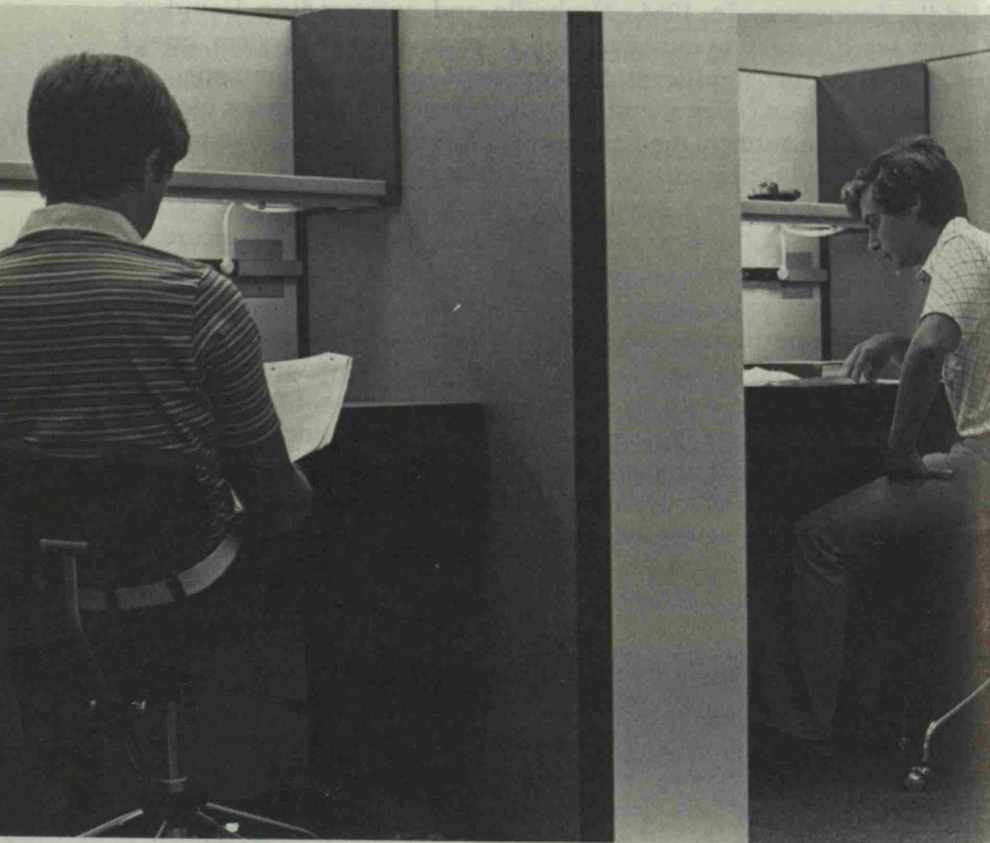
A medical student is benefited in many ways by attending school in Nashville, a city of over half a million situated in the bluegrass region of Middle Tennessee. In 1964, Nashville and surrounding Davidson County were merged to form a metropolitan government system, one of the country's most significant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





A lounge area in Light Hall, the medical education building completed in 1977

Admission

THE 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 Admissions.

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 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:

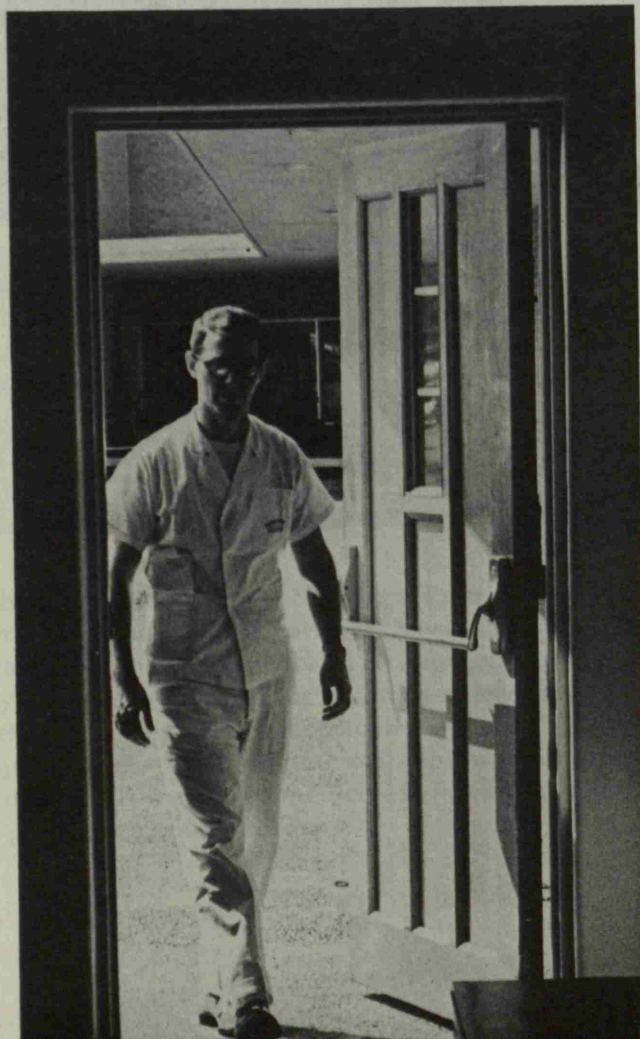
American Medical College Application Service
Association of American Medical Colleges
Suite 301
1776 Massachusetts Avenue Northwest
Washington, D.C. 20036

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 by AMCAS 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.



The Academic Program

THE 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, psychiatry, and medical statistics. 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, radiology, 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. Each student is randomly assigned to a rotation group for the first academic unit, and then proceeds through the succeeding units of the year. The precise schedule for each student is derived from computer algorithm.

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. 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 academic units as electives for inpatient clerkships. The opportunities for use of this elective time includes 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.

1st Year Fall Semester

Schedule of Courses

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00-12:00	Biochemistry	Anatomy		Anatomy	Biochemistry	Anatomy
1:00-2:00	Biochemistry	Psychiatry		Anatomy	Biochemistry	
2:00-4:00		Anatomy		Dean's Hour		
4:00-5:00						

1st Year Spring Semester

Schedule of Courses

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00-12:00	Anatomy	Physiology		Physiology	Anatomy	
1:00-4:00	Anatomy	Physiology		Physiology	Anatomy	
4:00-5:00	Medical Statistics	Psychiatry		Dean's Hour		

1. Elective time is unshaded.
2. Most freshmen should take 4-5 elective hours each semester.

2nd Year Fall Semester

Schedule of Courses

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00	Pathology	Pathology		Pathology	Pathology	
9:00						
10:00						
11:00						
12:00						
1:00	Methods in Clinical Science	Microbiology		Microbiology	Psychiatry	
2:00						
3:00						
4:00					Epidemiology	

1. Elective time is unshaded.
2. Most sophomores should take 4-5 elective hours each semester.
3. Clinical-pathological conferences will routinely be given in the Tuesday Student-Faculty Hour.

2nd Year Spring Semester

Schedule of Courses

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
8:00	Pharmacology	Methods in Clinical Science		Radiology	Pharmacology	Pharmacology	
9:00				Psychiatry			
10:00				Preventive Medicine			
11:00							
12:00							
1:00	Methods in Clinical Science	Methods in Clinical Science		Methods in Clinical Science	Pharmacology		
2:00							Student-Faculty Hour
3:00							
4:00							Dean's Hour

1. Elective time is unshaded.
2. Most sophomores should take 4-5 elective hours each semester.
3. Clinical-pathological conferences will routinely be given in the Tuesday Student-Faculty Hour.

Schedule of Courses

3rd Year

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00-12:00	Wards: 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 6 hrs Neurology	CPC / Radio-biology	20 hrs Medicine 19 hrs Pediatrics	Dean's Hour	12 hrs Med Law 11 hrs Anesthesiology 11 hrs Ob-Gyn 6 hrs Psychiatry	

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

3rd Year (1st half)

Rotation (random assignment)

STUDENT GROUP	1st 5 weeks	2nd 5 weeks	3rd 5 weeks	4th 5 weeks
1	Medicine	Medicine	Surgery	Surgery
2				
3				
4				
5	Psychiatry	Neu	Medicine	Medicine
6		Orth		
7	Neu	Psychiatry	Psychiatry	Psychiatry
8	Orth			
9	Pediatrics	Ob-Gyn	Psychiatry	Neu
10				Orth
11	Ob-Gyn	Pediatrics	Neu	Psychiatry
12			Orth	
13	Surgery	Surgery	Pediatrics	Ob-Gyn
14				
15			Ob-Gyn	Pediatrics
16				

3rd Year (2nd half)

Rotation (random assignment)

STUDENT GROUP	5th 5 weeks		6th 5 weeks		7th 5 weeks		8th 5 weeks	
1	Pediatrics		Ob-Gyn		Psychiatry		Neu	Orth
2	Ob-Gyn		Pediatrics		Neu	Orth	Orth	Neu
3	Ob-Gyn		Pediatrics		Neu	Orth	Psychiatry	
4	Ob-Gyn		Pediatrics		Orth	Neu	Psychiatry	
5	Surgery		Surgery		Pediatrics		Ob-Gyn	
6	Surgery		Surgery		Pediatrics		Ob-Gyn	
7	Surgery		Surgery		Ob/Gyn		Pediatrics	
8	Surgery		Surgery		Ob/Gyn		Pediatrics	
9	Medicine		Medicine		Surgery		Surgery	
10	Medicine		Medicine		Surgery		Surgery	
11	Medicine		Medicine		Surgery		Surgery	
12	Medicine		Medicine		Surgery		Surgery	
13	Psychiatry		Neu	Neu	Medicine		Medicine	
14	Psychiatry		Orth	Orth	Medicine		Medicine	
15	Neu	Orth	Psychiatry		Medicine		Medicine	
16	Orth	Neu	Psychiatry		Medicine		Medicine	

4th Year

Half the Class (I) is assigned preference in enrolling for clerkships (A) in the odd-numbered academic units while the other half (II) has priority for clinic assignments (B).

The Senior academic unit is approximately four weeks in duration.

Student Group	Fall Semester				Spring Semester			
	1st unit	2nd unit	3rd unit	4th unit	5th unit	6th unit	7th unit	8th unit
Class Half I	A	B	A	B	A	B	A	B
Class Half II	B	A	B	A	B	A	B	A

Requirements include eight full academic units, a major clerkship in Medicine, a clerkship or three clinics in Surgery (or surgical subspecialties) and Pediatrics, and Emergency Room experience on a regularly assigned basis except students having ER experience through clerkships at the Metropolitan General Hospital in Medicine, Surgery, or Pediatrics.



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

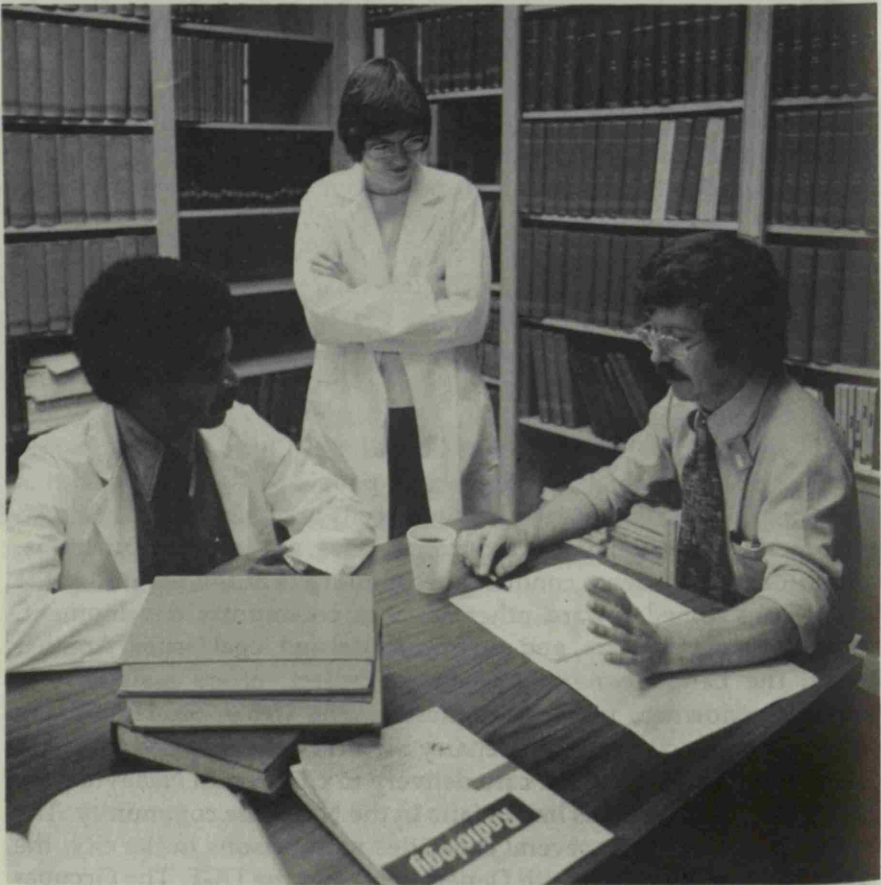
THE Center for Health Services is a multidisciplinary entity with campus-wide student and faculty participation and representation. It was founded in 1971 for the purpose of encouraging and pursuing improvements in health care, primarily for under-served communities. "Health" is interpreted broadly to 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, the College of Arts & Science and George Peabody College for Teachers.

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, the Land Owner's Assistance Project, offers assistance to minority landowners in West Tennessee. The Urban Student Health Coalition, in association with Meharry Medical College, provides physical examinations and health care delivery to children in Nashville day care centers, and conducts health fairs in the Nashville community. The coalition has worked in several capacities with prisons in the city, the Metropolitan Nashville Health Department, and the UGF. The Occupa-

tional Health Project develops educational programs to insure safety and health of workers.

The curriculum component of the Center for Health Services 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.



The M.D./Ph.D. Program

THE 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, Assistant Dean for 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 for those who have already gained admission to joint M.D./Ph.D. studies.

Students who wish financial support should so indicate 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 his or her 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:

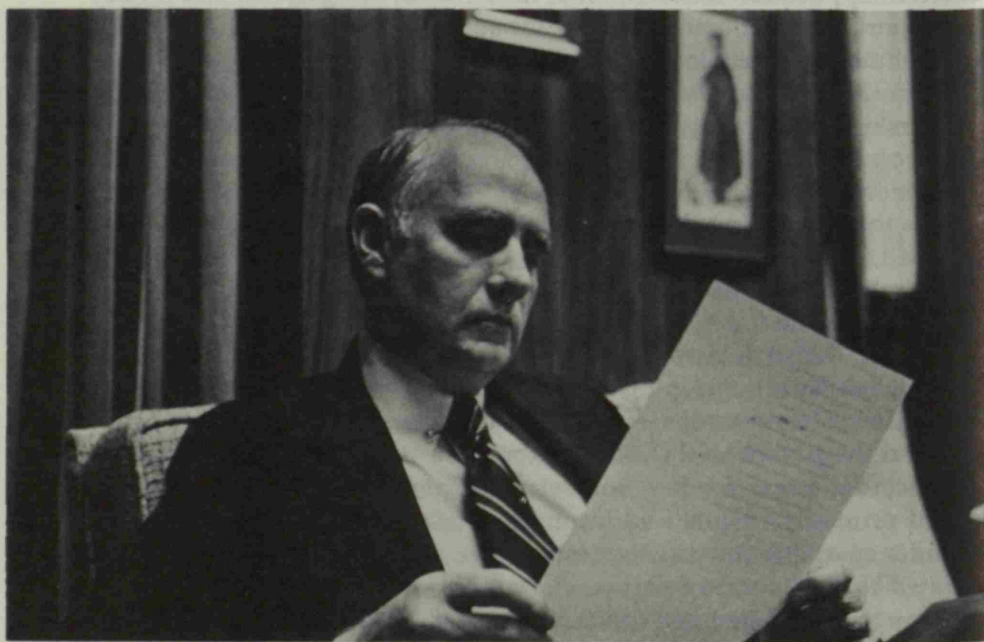
Vanderbilt Scholarship Program. This is a privately endowed scholarship ordinarily available to those students who have completed the second year of medical school. The scholarship pays tuition and fees, provides a stipend of \$2,500 a year plus \$500 per dependent, and \$500 per year to the sponsoring 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 (1980/81), provides a stipend of \$5,040 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 available 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.



Academic Regulations

THE 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 unacceptable. 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 in the evaluation of the student as one of several performance criteria considered.

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

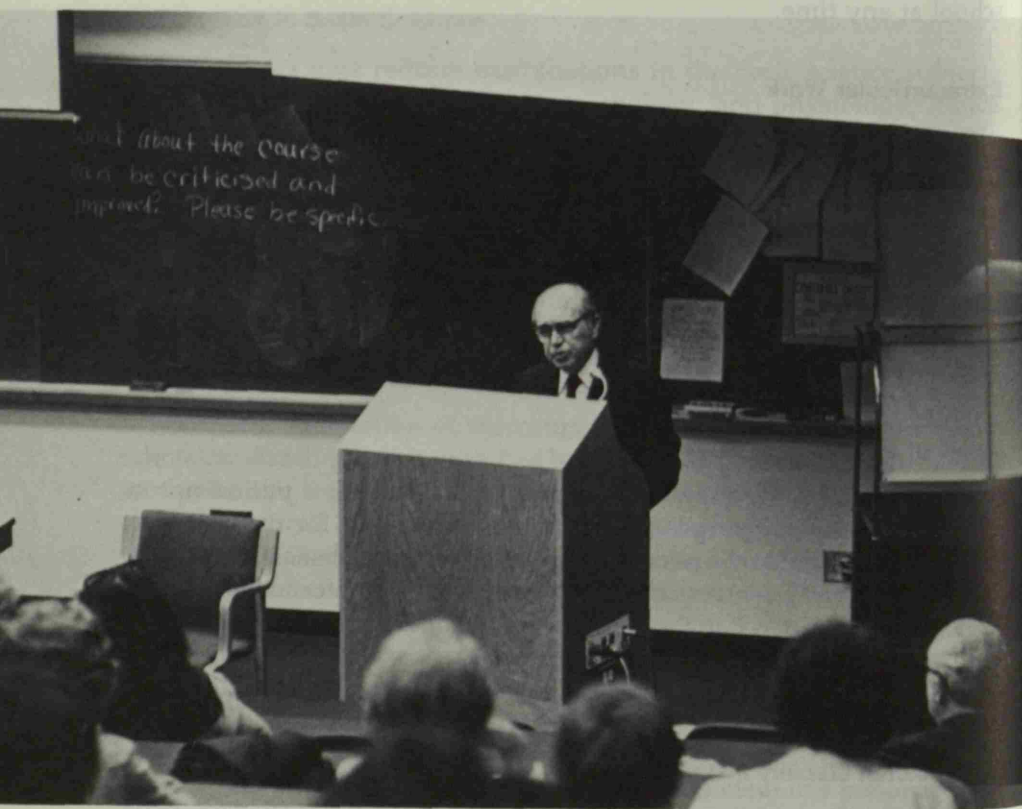
The Medical School does not regulate the outside work of its students although it does take the firm position of discouraging outside work. No outside commitments may be assumed by medical students which obligate them in a way that can compromise their responsibilities at the Medical School. Students 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 payable 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.



Light Hall provides classroom and laboratory space for Medical School teaching and research.

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 ALAN D. BASS LECTURESHIP. This lectureship was established in 1976 in recognition of Dr. Bass's outstanding contributions to Vanderbilt University, the Nashville community and the field of Pharmacology. He served as Professor and Chairman of the Department of Pharmacology from 1953-1973, Associate Dean for Biomedical Sciences 1973-1975, and served as Acting Dean of the School of Medicine 1973-1974. The lectureship is made possible through the generosity of his associates and colleagues in the American Society of Pharmacology and Experimental Therapeutics, FASEB, the AMA Council on Drugs, the Nashville Academy of Medicine, present and former staff, students and faculty members at Vanderbilt University, and the Department of Pharmacology. The first lecture was given in April 1977.

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.

THE ROLLIN A. DANIEL, JR. LECTURE IN THORACIC SURGERY. In 1977 the Department of Thoracic and Cardiac Surgery established the Rollin A. Daniel, Jr. Lecture as a tribute to Dr. Daniel. Since Dr. Daniel's death, there has been generous support from Dr. Daniel's family and many former residents to this lectureship fund. Each year a distinguished thoracic surgeon is invited by the Department to visit Vanderbilt and deliver the annual lecture, usually in the fall.

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.

THE J. WILLIAM HILLMAN VISITING PROFESSORSHIP. This professorship was established in 1976 as a tribute to the late Dr. J. William Hillman who served as professor and chairman of the Department of Orthopedics. To commemorate Dr. Hillman's tireless dedication to the art of teaching, the department annually invites a prominent orthopedist to spend three or four days in residence teaching the house staff through a series of walking rounds and informal talks, concluding with a day long seminar on special topics in the field.

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 teaching 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.

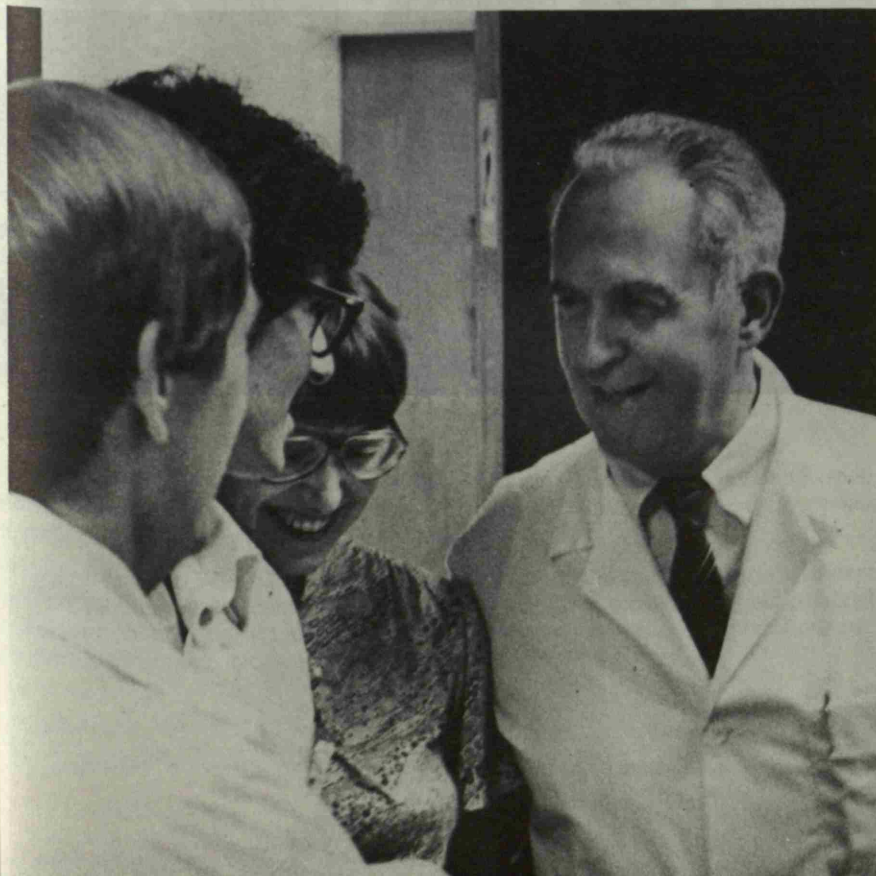
THE ELLIOTT NEWMAN VISITING LECTURESHIP. This lectureship was formally established by the Board of Trust of Vanderbilt University in 1977. Dr. Newman was a distinguished scientist and medical scholar, an outstanding clinician and teacher, and a loyal friend and faculty member of the School of Medicine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

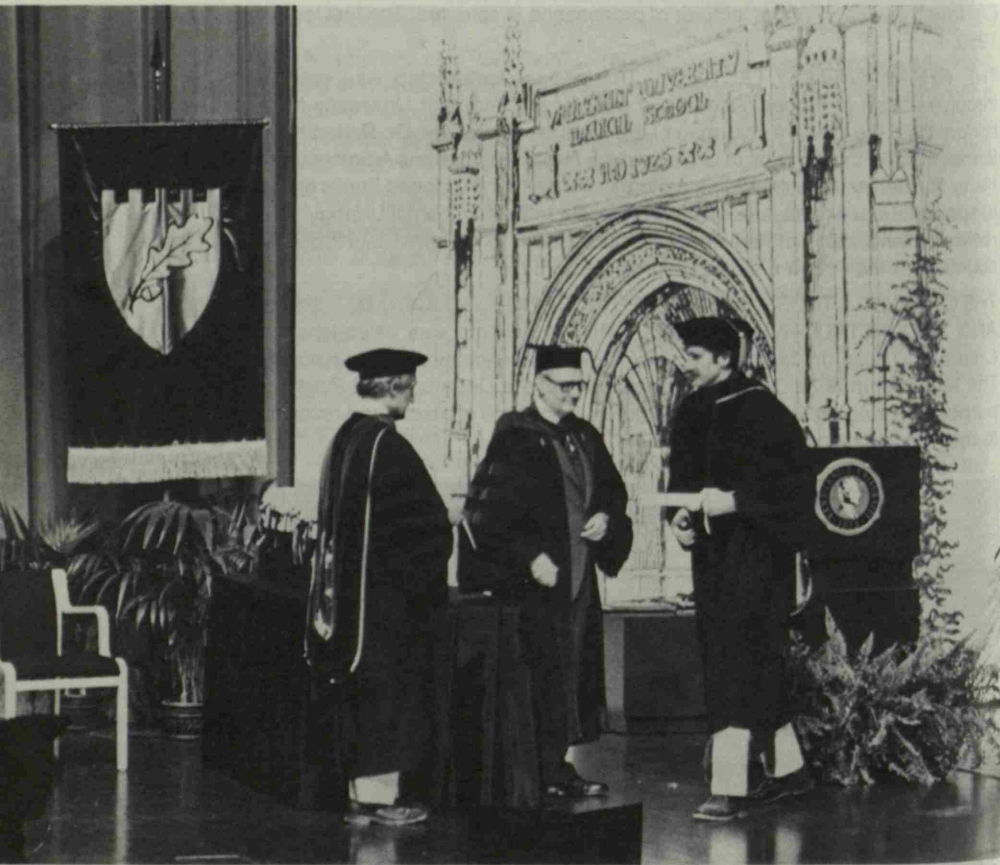
THE COBB PILCHER MEMORIAL LECTURE. In 1950 the Pi Chapter of the Phi Chi Medical Fraternity established the Cobb Pilcher Memorial Lecture to honor the memory of Dr. Pilcher, formerly associate professor of surgery, distinguished neurosurgeon, and a member of Phi Chi fraternity. Each year a lecturer of 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.



ALAN F. OPPENHEIM. The annual meeting of the American Association of University Professors was held in 1952 at the University of Wisconsin. The first meeting was held in 1915 at the University of Wisconsin. The annual meeting is held in the Department of Psychology at the University of Wisconsin and is open to all members of the Association. The meeting is held in the Department of Psychology at the University of Wisconsin and is open to all members of the Association. The meeting is held in the Department of Psychology at the University of Wisconsin and is open to all members of the Association.



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

AMERICAN MEDICAL WOMEN'S ASSOCIATION SCHOLASTIC ACHIEVEMENT CITATION. Established to recognize a woman medical student as an honor graduate.

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 at Vanderbilt University School of Medicine.

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.

KAISER FAMILY FOUNDATION—NATIONAL MEDICAL FELLOWSHIPS MERIT GRADUATION AWARD. Awarded to minority medical students of high academic achievement and demonstrated potential for distinguished contributions to medicine.

SCHOOL OF MEDICINE AWARD OF DISTINCTION IN EDUCATION. This award is presented to the student who has demonstrated outstanding qualities of scholarship, leadership, and humanitarian service in the context of medical education.

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.

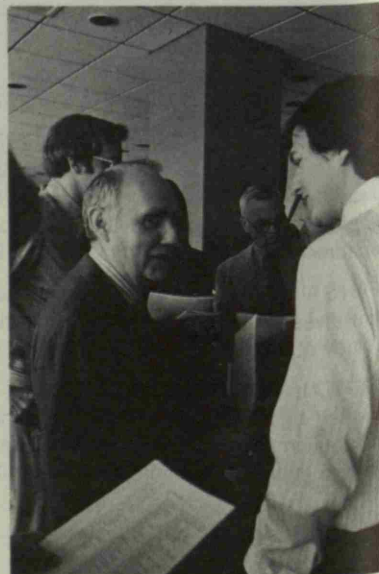
SURGICAL CLERKSHIP AWARD. This award is presented annually by the section of surgical sciences to a student who has had a superior performance in the third-year surgical clerkship and who plans to enter graduate education in surgery. The award includes an expense-paid attendance at the annual meeting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

THE University provides accommodation for as many graduate and professional school students as possible in university-owned apartments and in single rooms in residence halls. Because housing on the campus is limited, unmarried students must share apartments (two per efficiency, two per one-bedroom, and three per two-bedroom). Housing space is reserved for those entering students who apply by 1 May, in advance of assignment to returning students. After 1 May, assignment is made on the basis of the date of application.

Apartments for graduate and professional students are open during holidays, to accommodate those who pursue study and research when the schools of the University are not in session. Occupancy is subject to the terms and conditions of a lease executed by the occupant. Leases are executed for specific terms and the resident must be a full-time student at Vanderbilt to be eligible for housing in these facilities. Should the occupant cease to be a student, the apartment or room must be vacated within twenty-four hours.

Apartments and rooms are leased for the entire academic year. Students who are assigned space on the campus are thus committed for the year, and should understand that only withdrawal from the University will cause the termination of the lease.

A deposit of \$100 is required at the time of application. Requests for refund of deposit will be considered if the request is received in writing by 1 July. All housing inquiries should be directed to: Office of the Dean, Residential and Judicial Affairs, Box 1677, Station B, Nashville, Tennessee 37235.

Housing Facilities

Lewis House, on the south side of campus, is an eleven-story apartment building with air-conditioned efficiency, one-bedroom, and two-bedroom apartments for graduate and professional students, primarily married students. Each apartment is equipped with draperies, electric range, refrigerator, and sink with disposal. Rent includes utilities, except telephone, and the use of all public areas. Laundry rooms on the basement level contain coin-operated washers and dryers. A play area for children is adjacent to the building.

Oxford House contains furnished efficiency and one-bedroom

apartments in an eleven-story building on 21st Avenue, South, at Dixie Place, near the Medical Center. Apartments are assigned primarily to single graduate students. Oxford House has no facilities for children. The apartments are modern with ample closet space and all-electric kitchens. Rent includes utilities and the use of all public areas.

The Married Students Apartments located at the eastern edge of campus on 18th Avenue, South, are designed with kitchen and living room downstairs and two bedrooms and a bath upstairs. The complex contains a laundry room and recreation room. All apartments have central air conditioning, are carpeted throughout, and have fully equipped kitchens with garbage disposals. Rent includes utilities and the use of all public areas. Telephone service is arranged and paid for separately by the occupant.

The Garrison Apartment complex on 18th Avenue, South, has air-conditioned efficiency and one-bedroom units. Each apartment is equipped with an electric range, refrigerator, and sink with disposal. Rent includes utilities and the use of all public areas. Telephone service is arranged and paid for separately by the occupant. Laundry and storage facilities are in the basement.

Rooms on the fourth and fifth floors of North Hall on 21st Avenue, South, are assigned as single rooms to female graduate and professional students. Rooms have basic furnishings and common bath facilities are on each floor. Laundry facilities are on the ground level.

Rooms on the fourth floor of West Hall are assigned as single rooms to male graduate and professional students. Rooms have basic furnishings, and common bath facilities are on each floor. West Hall is not air conditioned.

University Food Services

There are four principal dining facilities on campus: Branscomb Dining Hall, the Divinity Refectory, the Hill Center cafeteria and Cumberland Room snack bar, and Rand Dining Hall and Commodore Room snack bar. A liberal board plan which offers interchangeable dining and selection of meals may be contracted for by the semester at \$259 for approximately 50 percent of all meals offered exclusive of holidays or recess periods. Supplements of 10 percent for \$53.20 may be purchased on request and charged to the student's account.

Student Health Service

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

A medical history form and immunization record will be mailed to each student on acceptance. This is to be returned to the University. The completed questionnaire is required of all 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; there is no extra charge for this service. At hours when the Student Health Service is closed students may receive medical care at the Emergency Room of the Vanderbilt University Hospital; students are charged for Emergency Room service. It is covered under the Student Insurance Plan but may not be covered under a student's individual private insurance policy.

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 15 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 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 major medical benefits; students are supplied with a brochure which explains the benefits, limits, and exclusions of insurance coverage. 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 15 September for fall semester or before 15 February 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 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 \$45 fee for this program.

Appointments may be made by visiting the center or by calling 322-2571.

Athletic Facilities

Participation in physical education and athletic activities is open to all students who meet eligibility standards except those who may be disqualified for medical reasons. Both men's and women's intramurals are popular on campus, and club sports provide opportunity for participation in sailing, soccer, fencing, rugby, lacrosse, and other minor sports.

Most recreation facilities of the University may be used by medical students and their families, according to published schedules. Facilities include gymnasiums, an indoor tennis center, a new eight-lane track, many outdoor courts and playing fields, and two indoor swimming pools.

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 well-trained 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. Bicycle racks are provided in the west plazas of Light Hall and adjacent to the west wing in the main medical center complex.

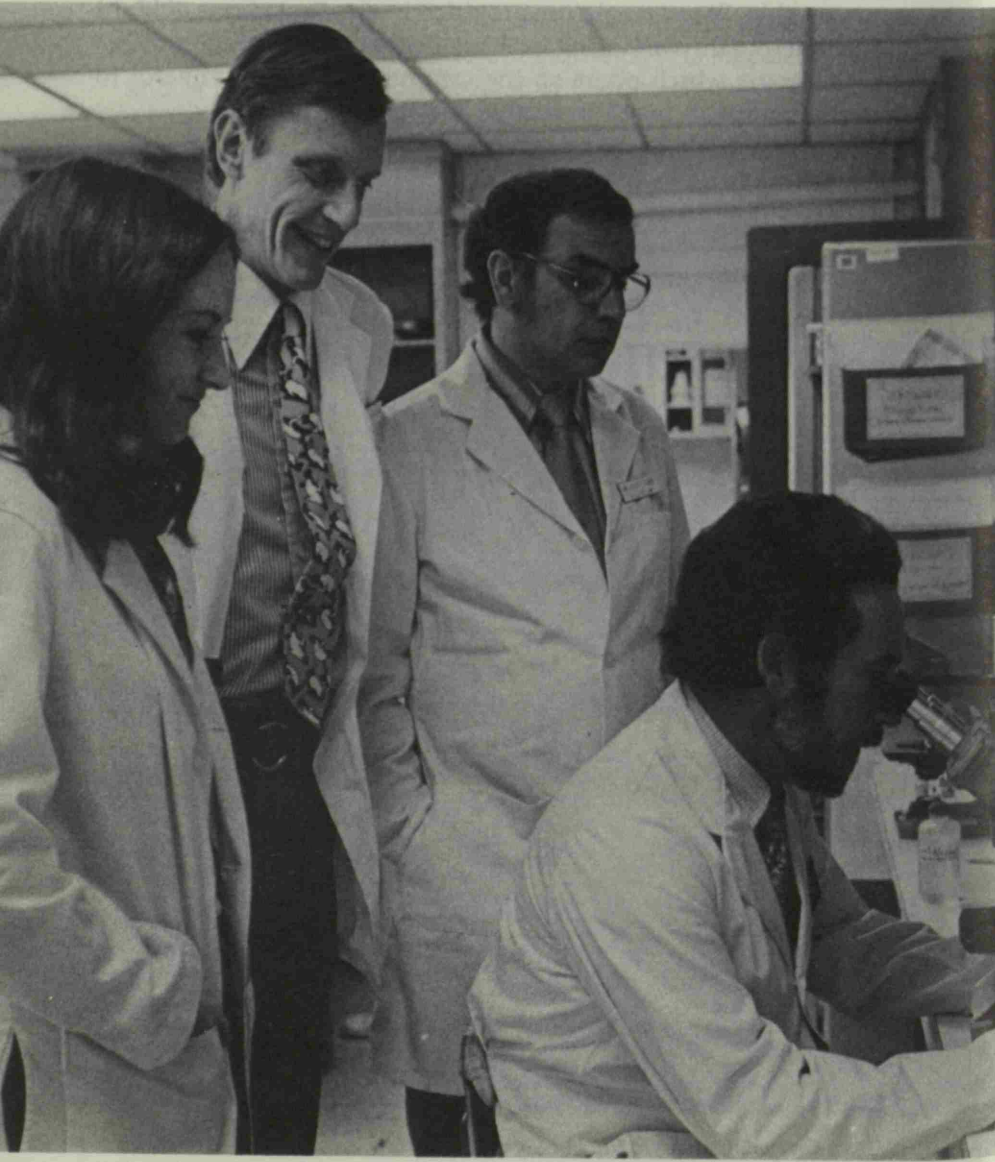
Traffic violations which occur on the campus subject the violator to monetary fine and may result in further disciplinary action.



Dean Chapman's picnic for third-year students

In many hospital insurance for families must apply to the...
and to the President.

The American Medical Association...
Department of Health and Safety...
Students will be required to...
for all purposes, but all...



Financial Information

THE minimum annual expense of a student in the School of Medicine, exclusive of clothes and incidentals but including living accommodations, is estimated as approximately \$9,500.

Tuition and Fees

Tuition (1980/81 academic year)	\$5,400
Application fee (to accompany final application)	25
Diploma fee (charged to graduating students)	10
Student activities fee (Sarratt Center)	16
Microscope usage fee	85
Student health insurance	123
Professional liability insurance (see page 53)	50

Rates for tuition and fees are subject to review and change without further notice, on action of the Board of Trust.

First-year medical students who are also three-year students in the College of Arts & Science are required by the College to pay a senior-in-absentia fee equal to one hour of Arts & Science tuition.

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 at the time of registration and enrollment. Students who cannot complete payment for a semester's charges may sign a deferred payment agreement postponing the time for payment but adding a schedule of late payment fees. Charges from previous semesters may not be deferred.

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.

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 \$300-\$400 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 disclosure 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 businessman, 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 \$6,000 annually are awarded to 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 businessmen, 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 programs 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. 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.

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 Assistant Dean 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 Assistant Dean for 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 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 is awarded by the Department of Biochemistry. The fund was 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 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 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 \$1,500 to \$2,000 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 health-interested organizations such as the local affiliates of the American Diabetes 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 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 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 Assistant Dean for 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 inquiry at the Vanderbilt Employment Center.



Advanced Training and Research

THE 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 PLANNING. 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 ophthalmology.

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-denominational 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 RESEARCH. 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. CURREY MEMORIAL FUND FOR RESEARCH IN HEMATOLOGY. A memorial fund created by the friends of Brownlee O. Currey, 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
 JOHN A. FREEMAN, M.D., Ph.D., Professor of Anatomy; Professor of Ophthalmology
 VIRGIL S. LeQUIRE, M.D., Professor of Experimental Pathology; Professor of Anatomy
 MARIE-CLAIRE ORGBIN-CRIST, Ph.D., Lucius E. Burch Professor of Reproductive Biology & Family Planning; Professor of Anatomy; Director of the Center for Population and Reproductive Biology
 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
 VIVIEN CASAGRANDE, Ph.D., Associate Professor of Anatomy; Assistant Professor of Psychology, College of Arts & Science
 G. RODMAN DAVENPORT, Ph.D., Associate Professor of Anatomy
 LOREN H. HOFFMAN, Ph.D., Associate Professor of Anatomy
 JON H. KAAS, Ph.D., Professor of Psychology, College of Arts & Science; 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
 JAMES A. MCKANNA, Ph.D., Assistant Professor of Anatomy
 JEANETTE J. NORDEN, Ph.D., Assistant Professor of Anatomy
 GARY EDWARD OLSON, Ph.D., Assistant Professor of Anatomy
 LILLIAN NANNEY, Ph.D., Research Associate in Plastic Surgery; 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 lec-

tures 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. 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
DUNCAN A. HOLADAY, M.D., Professor of Anesthesiology
CHARLES B. PITTINGER, M.D., Professor of Anesthesiology, Emeritus
DAVID A. CHADWICK, M.B., Ch.B., Clinical Professor of Anesthesiology
WALTER U. BROWN, M.D., Associate Professor of Anesthesiology; Director, Division of Obstetric Anesthesia
RAMON S. HARRIS, M.D., Associate Professor of Anesthesiology
JOANNE L. LINN, M.D., Associate Professor of Anesthesiology
CHARLES W. QUIMBY, JR., M.D., LL.B., Associate Professor of Anesthesiology; Assistant Professor of Medical Administration (Legal Medicine)
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; Assistant Professor of Surgery
BARRY C. CORKE, M.B., Ch.B., Assistant Professor of Anesthesiology; Assistant Director, Division of Obstetric Anesthesia
KRISHNA D. GHOSH, M.D., Assistant Professor of Anesthesiology
ROBERT E. HANDTE, M.D., Assistant Professor of Anesthesiology
JAYAKUMAR REDDY KAMBAM, M.B., B.S., Assistant Professor of Anesthesiology
WINSTON CLIVE-VICTOR PARRIS, M.B., B.S., Assistant Professor of Anesthesiology
JAMES M. PHYTHON, M.D., Assistant Professor of Anesthesiology
PAULA F. CONAWAY SANDIDGE, M.D., Assistant Professor of Anesthesiology
GEETA WASUDEV, M.B., B.S., Assistant Professor of Anesthesiology
MARGARET WOOD, M.B., Ch.B., Assistant Professor of Anesthesiology; Assistant Professor of Pharmacology
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
JAMES W. MENZIE, M.D., Assistant Clinical Professor of Anesthesiology
BASEL M. MIXON, JR., M.D., Assistant Clinical Professor of Anesthesiology
LILY HEIDI CHEN, M.D., Instructor in 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; pre-medication, 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), Emeritus; Honorary Curator for Special Collections-Nutrition, Medical Center Library
 WILLARD R. FAULKNER, Ph.D., Professor of Biochemistry, Emeritus
 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; Director of the Specialized Center for Research in Hypertension
 ROBERT A. NEAL, Ph.D., Professor of Biochemistry and Director of the Center in Environmental Toxicology
 J. DAVID PUETT, Ph.D., Professor of Biochemistry
 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 Biochemistry (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
 HARRY L. GREENE, M.D., Professor of Pediatrics; Associate Professor of Biochemistry
 F. PETER GUENGERICH, 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
 MARIO ASCOLI, Ph.D., Assistant Professor of Medicine; Research 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
 ROBERT C. BRIGGS, Ph.D., Research Assistant Professor of Biochemistry
 LEO T. BURKA, Ph.D., Research Assistant Professor of Chemistry, College of Arts & Science; Research Assistant Professor of Biochemistry
 GRAHAM CARPENTER, Ph.D., Assistant Professor of Biochemistry; Assistant Professor of Medicine (Dermatology)
 BENJAMIN J. DANZO, Ph.D., Associate Professor of Obstetrics & Gynecology; Research Assistant Professor of Biochemistry

- PHILIP W. FELTS, M.D., Assistant Professor of Medicine; Assistant Professor of Biochemistry; Assistant Dean, Division of Student Affairs
- DIXIE W. FREDERIKSEN, Ph.D., Assistant Professor of Biochemistry
- W. DAVID HANKINS, Ph.D., Assistant Professor of Medicine; Research Assistant Professor of Biochemistry (On leave 1980/81)
- RAYMOND D. HARBISON, Ph.D., Associate Professor of Pharmacology; Assistant Professor of Biochemistry; Senior Research Associate, Institute for Public Policy Studies
- CARL G. HELLERQVIST, Ph.D., 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 (On leave 1980/81)
- THOMAS N. OELTMANN, Ph.D., Assistant Professor of Medicine; Research Assistant Professor of Biochemistry
- DAVID E. ONG, Ph.D., Research Assistant Professor of Biochemistry
- JAMES V. STAROS, Ph.D., Assistant Professor of Biochemistry
- LAKEN G. WARNOCK, Ph.D., Assistant Professor of Biochemistry
- KUNIO MISONO, Ph.D., Research Instructor in Biochemistry
- CHRISTOPHER P. CHENGELIS, Ph.D., Research Associate in Biochemistry
- ROBERT COOK, Ph.D., Research Associate in Biochemistry
- COLIN DYKES, Ph.D., Research Associate in Biochemistry
- JAMES R. HALPERT, Ph.D., Research Associate in Biochemistry
- ELINOR V. HITCHNER, Ph.D., Research Associate in Biochemistry
- TAISUKE INAGAKI, Ph.D., Research Associate in Biochemistry
- MASATSUGU KISARAGI, Ph.D., Research Associate in Biochemistry
- KYOKO NARUSE, M.D., Research Associate in Biochemistry
- MITSUhide NARUSE, M.D., Ph.D., Research Associate in Biochemistry
- THOMAS D. NOLUND, Ph.D., Research Associate in Biochemistry
- TOMIO OKAMURA, M.D., Research Associate in Biochemistry
- MASAHIDE OMORI, Ph.D., Research Associate in Biochemistry
- TADASHI SAWAHATA, Ph.D., Research Associate in Biochemistry
- WARREN N. SCHMIDT, Ph.D., Research Associate in Biochemistry
- CHRISTA M. STOSCHECK, Ph.D., Research Associate in Biochemistry
- BRIAN C. SWEATMAN, Ph.D., Research Associate in Biochemistry
- YUKIO TAKII, Ph.D., Research Associate in Biochemistry
- HIROSHI USHIRO, M.D., Research Associate in Biochemistry
- PHILIP P. WANG, Ph.D., Research Associate in Biochemistry
- ZBIGNIEW WOJTKOWIA, Sc.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 [4]
Dr. Coniglio and 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 & Speech Sciences

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

ROBERT F. COLEMAN, Ph.D., Professor of Hearing & Speech Sciences (Speech Pathology); Assistant Professor of Otolaryngology

RUSSELL J. LOVE, Ph.D., Professor of Hearing & Speech Sciences (Speech Pathology)

FREEMAN McCONNELL, Ph.D., Professor of Audiology, Emeritus

JAY SANDERS, Ph.D., Professor of Hearing & Speech Sciences (Audiology)

KATHRYN B. HORTON, M.S., Adjunct Associate Professor of Hearing & Speech Sciences (Audiology and Speech Pathology)

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

HOWARD S. KIRSHNER, M.D., Assistant Professor of Neurology; Assistant Professor of Hearing & Speech Sciences

DAN F. KONKLE, Ph.D., Assistant Professor of Hearing & Speech Sciences (Audiology)

ANN B. SITTON, M.S., Assistant Professor of Hearing, & Speech Sciences (Audiology)

WANDA G. WEBB, Ph.D., Assistant Professor of Hearing & Speech Sciences (Speech Pathology); Instructor in Neurology

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

D. WESLEY GRANTHAM, Ph.D., Adjunct Assistant Professor of Hearing & Speech Sciences

C. GARY JACKSON, M.D., Clinical Instructor in Otolaryngology; Assistant Clinical Professor of Hearing & Speech Sciences (Otolaryngology)

ANNE FORREST JOSEY, M.D., Adjunct Assistant Professor of Hearing & Speech Sciences (Audiology)

JOSEPH S. KEENAN, Ph.D., Assistant Clinical Professor of Hearing & Speech Sciences (Speech Pathology)

BERTHA SMITH CLARK, M.A., Instructor in Hearing & Speech Sciences (Aural Rehabilitation)

SUSAN A. LOGAN, M.S., Instructor in Hearing & Speech Sciences (Audiology)

SUZANNE, W. BROOK SALLEN, M.A., Clinical Instructor in Hearing & Speech Sciences (Speech Pathology)

ELLEN J. DAVIS, M.A., Clinical Instructor in Hearing & Speech Sciences (Speech Pathology)


MARY DALE FITZGERALD, M.S., Clinical Instructor in Hearing & Speech Sciences (Audiology and Speech Pathology)

BARBARA Y. HIGGINS, M.S., Clinical Instructor in Hearing & Speech Sciences (Audiology)

BLAKE B. LAZENBY, M.S., Clinical Instructor in Hearing & Speech Sciences (Audiology)
 KAREN MILITANA, M.Ed., Clinical Instructor in Hearing & Speech Sciences (Speech Pathology)

SANDRA E. ODEN, M.A., Clinical Instructor in Hearing & Speech Sciences

BARBARA A. WITTEMAN, M.S., Clinical Instructor in Hearing & Speech Sciences

 THE Division of Hearing and Speech Sciences 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.

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

A. EVERETTE JAMES, JR., M.D., J.D., Professor of Radiology and Chairman of the Department; Professor of Medical Administration (Legal Medicine)

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

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

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

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

SHEILA R. BLOOM, S.M., Associate in Medical Administration

KATHRYN R. COSTELLO, M.A., Assistant Professor of Medical Administration and Assistant Vice-President for Medical Affairs

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, School of Medicine

LEVI N. HILLING, M.S., Assistant Professor of Medical Administration

JAMES S. KRAMER, M.B.A., Assistant Professor of Medical Administration and Assistant Vice-President for Medical Affairs

LYNNE LENNOX, M.S., Associate in Medical Administration

LOYD S. PETTEGREW, Ph.D., Assistant Professor of Medical Administration

CHARLES W. QUIMBY, JR., M.D., LL.B., Associate Professor of Anesthesiology; Assistant Professor of Medical Administration (Legal Medicine)

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

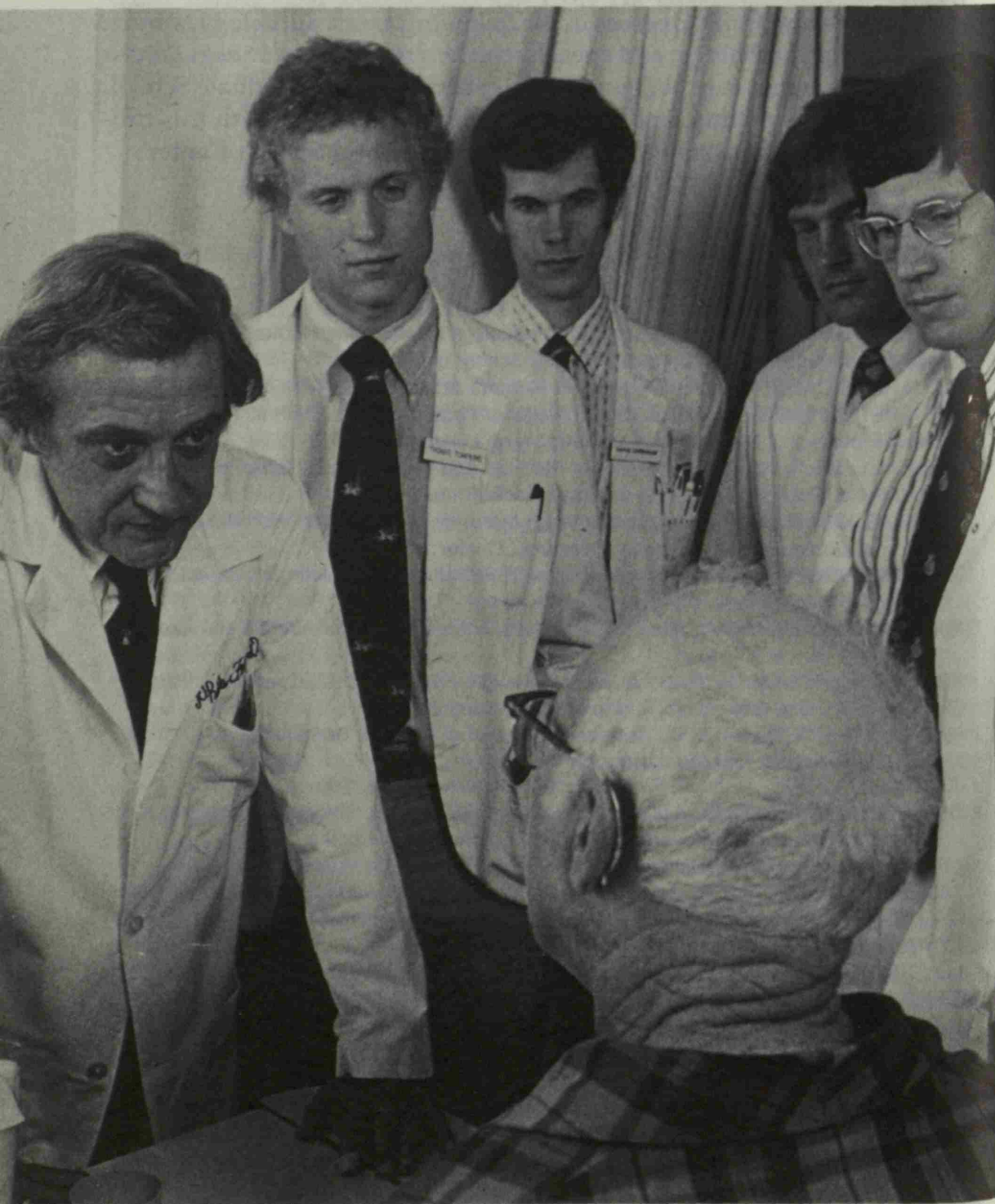
PAUL CORRIGAN, JR., M.H.A., Instructor in Medical Administration

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

WILLIAM H. MANLEY, B.S., Instructor in Medical Administration

TIMOTHY C. JACOBSON, Ph.D., Research Associate 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-



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., Harvie Branscomb Distinguished Professor of Medicine and Chairman of the Department
- ROBERT H. ALFORD, M.D., Professor of Medicine
- KENNETH L. BRIGHAM, M.D., Professor of Medicine; Associate Professor of Biomedical Engineering, School of Engineering; Director of the Specialized Center of Research in Pulmonary Edema
- THOMAS E. BRITTINGHAM, M.D., Professor of Medicine (On leave 1980/81)
- 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 Research and Training Center
- ROGER M. DES PREZ, M.D., Professor of Medicine
- 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 (On leave 1980/81)
- ROBERT A. GOODWIN, M.D., Professor of Medicine
- JACEK HAWIGER, M.D., D.M.Sc., Professor of Pathology; Professor of Medicine
- DAVID E. JENKINS, JR., M.D., Professor of Medicine; Professor of Pathology
- RUDOLPH H. KAMPMEIER, M.D., Professor of Medicine, Emeritus
- SANFORD B. KRANTZ, M.D., Professor of Medicine and Head of the Division of Hematology
- ZELL A. MCGEE, M.D., Professor of Medicine
- CLIFTON K. MEADOR, M.D., Professor of Medicine (On leave fall semester)
- ANN STONE MINOT, Ph.D., Professor of Medicine, Emerita (Died 25 February 1980)
- JOHN A. OATES, M.D., Professor of Pharmacology; Joe and Morris Werthan Professor of Investigative Medicine; Director of the Research Center for Clinical Pharmacology & Drug Toxicology
- DAVID N. ORTH, M.D., Professor of Medicine; Associate Professor of Physiology
- THOMAS F. PAINE, JR., M.D., Professor of Medicine and University Physician
- THEODORE PINCUS, M.D., Professor of Medicine; Professor of Microbiology
- DAVID RABIN, M.D., Professor of Medicine; Professor of Obstetrics & Gynecology
- LLOYD H. RAMSEY, M.D., Professor of Medicine and Associate Dean of the School of Medicine
- JOSEPH C. ROSS, M.D., Visiting Professor of Medicine
- WILLIAM D. SALMON, JR., M.D., Professor of Medicine
- WILLIAM SCHAFFNER, M.D., Professor of Medicine; Professor of Preventive Medicine & Public Health
- STEVEN SCHENKER, M.D., Professor of Medicine and Head of the Division of Gastroenterology; Professor of Biochemistry
- BRUCE SINCLAIR-SMITH, M.B., B.S., Professor of Medicine
- 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
- GEORGE B. THEIL, M.D., Professor of Medicine
- THOMAS BOWMAN ZERFOSS, M.D., Professor of Medicine; Emeritus; Director Emeritus, Student Health Service
- F. TREMAINE BILLINGS, MD., 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; Executive Director, Continuing Education, School 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
- ROBERT A. BRANCH, M.B., Ch.B., Associate Professor of Medicine; Associate Professor of Pharmacology
- 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; Program Director of the General Clinical Research Center
- GEORGE V. MANN, Sc.D., M.D., Associate Professor of Biochemistry; Associate Professor of Medicine in Biochemistry; Career Investigator, National Heart & Lung Institute
- 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
- JAMES M. PERRY, JR., M.D., Associate Professor of Medicine
- STEPHEN SCHILLIG, M.D., Associate Professor of Medicine
- PAUL E. SLATON, JR., M.D., Associate Professor of Medicine and Director of the Division of Continuing Education, School of Medicine
- 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
- RAYMOND L. WOOSLEY, M.D., Associate Professor of Medicine; Associate Professor of Pharmacology
- 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
JOHN S. SERGENT, M.D., Associate Clinical Professor of Medicine; Director of The Multipurpose Arthritis Center
PAUL R. STUMB, M.D., Associate Clinical Professor of Medicine
CHARLES B. THORNE, M.D., Associate Clinical Professor of Medicine
LAWRENCE K. WOLFE, M.D., Associate Clinical Professor of Medicine
NAJI ABOU-MOURAD, M.D., Research Assistant Professor of Medicine; Research Assistant Professor of Surgery
MARIO ASCOLI, Ph.D., Assistant Professor of Medicine; Research Assistant Professor of Biochemistry
GEORGE R. AVANT, M.D., Assistant Professor of Medicine
ALAN D. CHERRINGTON, Ph.D., Associate 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; Assistant Dean for 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; Instructor in Nursing, School of Nursing
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., Assistant Professor of Medicine; Research Assistant Professor of Biochemistry (On leave 1980/81)
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; Assistant Professor of Physiology; Investigator, Howard Hughes Medical Institute (On leave 1980/81)
WILLIAM E. HARSTON, JR., M.D., Assistant Professor of Medicine
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 Medicine
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, Assistant Professor of Radiology
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
RANDOLPH B. LINDE, M.D., Assistant Professor of Medicine
ROBERT C. MacDONELL, M.D., Assistant Professor of Pediatrics; Assistant Professor of Medicine

- THURMAN DWIGHT MCKINNEY, M.D., Assistant Professor of Medicine
M. ANN MELLY, Ph.D., Assistant Professor of Medicine; Assistant Professor of Microbiology
JOHN H. NEWMAN, M.D., Assistant Professor of Medicine
KAORU NOMURA, M.D., Visiting Assistant Professor of Medicine (Endocrinology)
THOMAS N. OELTMANN, Ph.D., Assistant Professor of Medicine; Research Assistant Professor of Biochemistry
MARTIN L. OGLETTREE, M.D., Assistant Professor of Medicine; Assistant Professor of Pharmacology
RASHMI V. PATWARDHAN, M.D., Assistant Professor of Medicine
JAMES W. PICHERT, Ph.D., Assistant Professor of Medicine (Education)
R. KIRBY PRIMM, M.D., Assistant Professor of Medicine
HILDA B. RATNER, B.A., Senior Associate in Pathology; Senior Associate in 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
JAMES R. SNAPPER, M.D., Assistant Professor of Medicine
VINCENT SPEEG, Ph.D., M.D., Assistant Professor of Medicine
RICHARD STEIN, M.D., Assistant Professor of Medicine
CHARLES W. STRATTON, M.D., Assistant Professor of Pathology; Assistant Professor of Medicine
CRAIG R. SUSSMAN, M.D., Assistant Professor of Medicine
RHONDA D. TERRY, M.S., Associate in Medicine (Nutrition)
STEVEN N. WOLFF, M.D., Assistant Professor of Medicine
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
ROBERT J. WORKMAN, M.D., Assistant Professor of Medicine
SAMUEL S. WRIGHT, M.D., Assistant Professor of Medicine
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PAUL H. BARNETT, M.D., Assistant Clinical Professor of Medicine
STANLEY J. BODNER, M.D., D.C.M.T., Assistant Clinical Professor of Medicine; Clinical Instructor in Preventive Medicine; Adjunct Instructor in Nursing, School of Nursing
JAMES D. BOMBOY, JR., 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
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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
LARRY W. McNEIL, M.D., Assistant Clinical Professor of Medicine

CULLEN R. MERRITT, M.D., Assistant Clinical Professor of Medicine
CARL E. MITCHELL, M.D., Assistant Clinical Professor of Medicine
MURRAY W. SMITH, M.D., Assistant Clinical Professor of Medicine
DENNIS A. STOUWER, M.D., Assistant Clinical Professor of Medicine
ANNE J. SWEENEY, M.A., Assistant Clinical Professor of Medicine (Social Work)
JAMES N. THOMASSON, M.D., Assistant Clinical Professor of Medicine
RUSSELL D. WARD, M.D., Assistant Clinical Professor of Medicine
JAMES P. WILSON, 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
ALBERT K. DAWSON, Ph.D., Research Instructor in Medicine
EMMANUEL N. DESSYPRIS, M.D., Instructor in Medicine
MEHMET F. FER, M.D., Instructor in Medicine
GARRET A. FITZGERALD, M.D., Instructor in Pharmacology; Instructor in Medicine
CLARK R. GREGG, 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)
MARK J. KOURY, M.D., Instructor in Medicine
ROGER LIDMAN, M.D., Instructor in Medicine
JOHN H. J. NADEAU, M.D., Instructor in Medicine
WENDELL E. NICHOLSON, B.S., Instructor in Medicine
ALICE M. SAVAGE, Ph.D., M.D., Instructor in Medicine
JAMES N. SULLIVAN, M.D., Instructor in Medicine
EDWARD E. ANDERSON, M.D., Clinical Instructor in Medicine
H. R. ANDERSON, M.D., Clinical Instructor in Medicine
T. DEE BAKER, M.D., Clinical Instructor in Medicine
JACK M. BATSON, M.D., Clinical Instructor in Medicine
JOHN B. BREINIG, M.D., Clinical Instructor in Medicine
ALAN G. COHEN, M.D., Clinical Instructor in Medicine
ROBERT SETH COOPER, M.D., Clinical Instructor in Medicine
JOHN H. DIXON, JR., 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
RONALD L. FLETCHER, 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 B. HAYNES, JR., M.D., Clinical Instructor in Medicine
JAMES H. HAYNES, M.D., Clinical Instructor in Medicine
HUGH DOUGLAS HOLLIDAY, M.D., Clinical Instructor in Medicine
ROBERT M. HOLLISTER, M.D., Clinical Instructor in Medicine
JOSEPH W. HUSTON, 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
 JOHN P. KINNARD, JR., M.D., Clinical Instructor in Medicine
 DAVID S. KNAPP, M.D., Clinical Instructor in Medicine
 OTTO MORSE KOCHTITZKY, M.D., Clinical Instructor in Medicine
 MICHAEL E. MILLER, M.D., Clinical Instructor in Medicine
 FERNANDO MIRANDA, M.D., Clinical Instructor in Medicine
 DOUGLAS P. MITCHELL, M.D., Clinical Instructor in Medicine
 WILLIAM G. MORRIS, M.D., Clinical Instructor in Medicine
 DAVID T. MURRAY, M.D., Clinical Instructor in Medicine
 ROBERT L. NEADERTHAL, M.D., Clinical Instructor in Medicine
 WILLIAM B. RALPH, JR., M.D., Clinical Instructor in Medicine
 FRANK M. REMBERT, M.D., Clinical Instructor in Medicine
 LENOR S. RIBEIRO, 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
 HERBERT J. SCHULMAN, M.D., Clinical Instructor in Medicine
 JOHN ROBERT SCHWEIKERT, M.D., Clinical Instructor in Medicine
 ABRAM C. SHMERLING, M.D., Clinical Instructor in Medicine
 HARRISON J. SHULL, JR., M.D., Clinical Instructor in Medicine
 W. DAVID STRAYHORN, JR., M.D., Clinical Instructor in Medicine
 AUBREY LEE TUCKER, JR., M.D., Clinical Instructor in Medicine
 LAWRENCE J. WEITZ, M.Ed., Clinical Instructor in Medicine
 W. CARTER WILLIAMS, JR., M.D., Clinical Instructor in Medicine
 EUGEN J. WINTER, M.D., Clinical Instructor in Medicine
 TAYLOR WRAY, M.D., Clinical Instructor in Medicine
 MARY ARMBRUSTER, Ph.D., Research Associate in Medicine
 MARSHALL FRAZER, Ph.D., Research Associate in Medicine
 EDWARD H. FRYER, Research Associate in Medicine
 SHUJI MIYABE, M.D., Research Associate in Medicine
 YUJI OKA, M.D., Research Associate in Medicine
 NANCY L. ROGERS, M.S., Research Associate in Medicine
 ROBERT E. TAYLOR, M.D., 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 F. CARPENTER, Ph.D., Assistant Professor of Biochemistry; Assistant Professor
 of Medicine (Dermatology)
 RONALD E. GATES, Ph.D., Research Assistant Professor of Medicine (Dermatology)
 FRANK G. WITHERSPOON, M.D., Assistant Clinical Professor of Dermatology
 JAMES R. HAMILTON, M.D., Assistant Clinical Professor of Dermatology
 SIDNEY S. CURRY, M.D., Instructor in Medicine (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, JR., M.D., Clinical Instructor in Dermatology
 HOWARD LEE SALYER, M.D., Clinical Instructor in Dermatology
 LUCIEN C. SIMPSON, M.D., Clinical Instructor in Medicine (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 therapy; 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.*

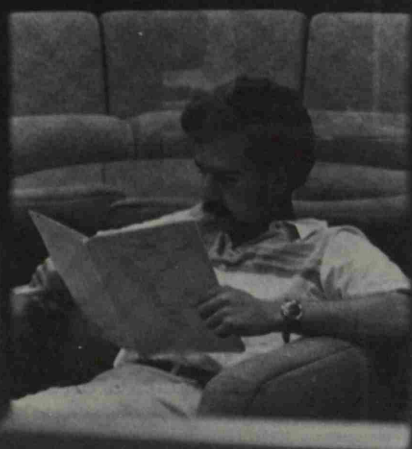
501.2. Physical Diagnosis. Education of sophomore medical students in diagnosis of disease by the art of examination at the bedside and in the laboratory, emphasizing the significance of information gained in the basic science courses as applied to clinical medicine. *SPRING. Dr. Pennington.*

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.*

B-206



Microbiology

- ALBERT S. KAPLAN, Ph.D., Professor of Microbiology and Chairman of the Department
 TAMAR BEN-PORAT, Ph.D., Professor of Microbiology
 DANIEL G. COLLEY, Ph.D., Professor of Microbiology
 SIDNEY P. COLOWICK, Ph.D., American Cancer Society—Charles Hayden Foundation Professor of Microbiology
 SIDNEY HARSHMAN, D.Sc., Professor of Microbiology and Associate Dean of the Graduate School
 JOHN H. HASH, Ph.D., Professor of Microbiology and Associate Dean of the School of Medicine for Biomedical Sciences; Principal Investigator of The General Clinical Research Center
 ALEXANDER R. LAWTON, M.D., Professor of Pediatrics; Edward Claiborne Stahlman Chair in Pediatric Physiology and Cell Metabolism; Professor of Microbiology
 THEODORE PINCUS, M.D., Professor of Medicine; 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
 FRANCES C. WOMACK Ph.D., Research Assistant Professor of Microbiology
 PETER F. WRIGHT, M.D., Associate Professor of Pediatrics; Assistant Professor of Microbiology
 MAYME L. BLANKENSHIP WOOD, B.S., Research Instructor in Microbiology
 WAYNE F. GREEN, Ph.D., Research Associate in Microbiology
 HARTMUT HAMPL, Ph.D., Research Associate in Microbiology
 SEIJI IHARA, Ph.D., Research Associate in Microbiology
 STEPHEN G. KAYES, Ph.D., Research Associate in Microbiology
 S.V.K. NARASIMHA MURTHY, Ph.D., Research Associate in Microbiology
 CHARLES W. TODD, 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 or equivalent. FALL. *Dr. Kaplan and Staff.*

Neurology

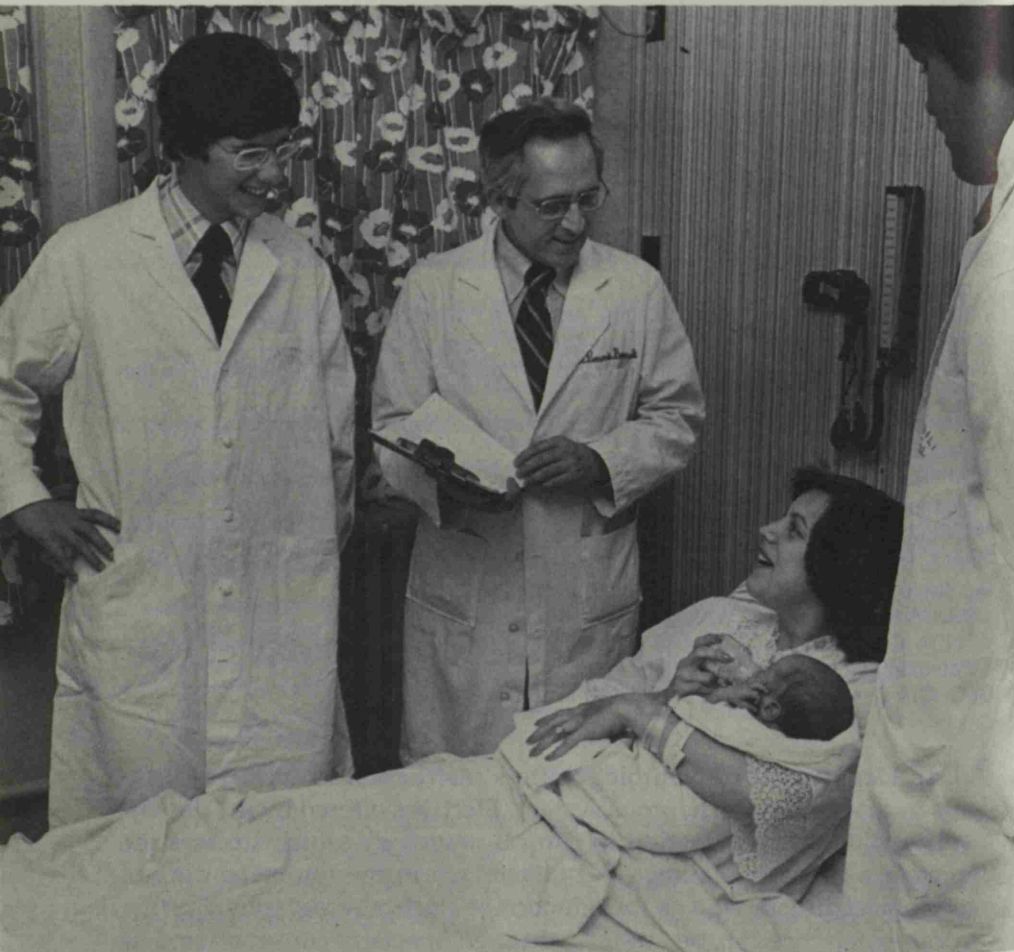
- GERALD M. FENICHEL, M.D., Professor of Neurology and Chairman of the Department; Professor of Pediatrics; Director of the Neuromuscular Disease Research Center
- FRANK R. FREEMON, M.D., Professor of Neurology
- H. CARL HAYWOOD, Ph.D., Professor of Psychology; Director of the John F. Kennedy Center for Research on Education and Human Development, George Peabody College for Teachers; Professor of Neurology
- CHARLES E. WELLS, M.D., Professor of Psychiatry; Professor of Neurology
- WILLIAM M. CLARK, M.D., Clinical Professor of Neurology
- GARY DUNCAN, M.D., Associate Professor of Neurology
- BERTRAM E. SPROFKIN, M.D., Clinical Professor of Neurology; Associate Clinical Professor of Neuropathology
- VASUDEVA G. IYER, M.D., D.M., Visiting Associate Professor of Neurology
- JOHN SLOAN WARNER, M.D., Associate Clinical Professor of Neurology
- OWEN BEV EVANS, M.D., Assistant Professor of Neurology; Assistant Professor of Pediatrics
- ANTHONY W. KILROY, M.B., B.S., Assistant Professor of Neurology; Assistant Professor of Pediatrics
- HOWARD S. KIRSHNER, M.D., Assistant Professor of Neurology; Assistant Professor of Hearing & Speech Sciences
- RUSSELL D. ROLLINSON, M.B., B.S., Assistant Professor of Neurology
- SHAUL HAREL, M.D., Visiting Instructor in Neurology; Visiting Instructor in Pediatrics
- REYNALDO P. LAZARO, M.D., Instructor in Neurology
- YEHUDA SHAPIRA, M.D., Visiting Instructor in Neurology
- WANDA G. WEBB, Ph.D., Assistant Professor of Hearing & Speech Sciences (Speech Pathology); Instructor in Neurology
- GEORGIA D. MONTOURIS, M.D., Clinical 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 electromyography. 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.

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 (Died 27 November 1979)
- 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 and Reproductive Biology
- DAVID RABIN, M.D., Professor of Medicine; Professor of Obstetrics & Gynecology
- PIERRE SOUPART, M.D., Ph.D., Professor of Obstetrics & Gynecology (Research)
- 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
- 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
- BENJAMIN J. DANZO, Ph.D., Associate Professor of Obstetrics & Gynecology; Research Assistant Professor of Biochemistry
- 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
- DAVID L. DiPIETRO, Ph.D., Assistant Professor of Obstetrics & Gynecology (Research)
- STEPHEN S. ENTMAN, M.D., Assistant Professor of Obstetrics & Gynecology
- JAMES H. GROWDON, JR., M.D., Assistant Professor of Obstetrics & Gynecology
- HOWARD W. JONES III, M.D., Assistant Professor of Obstetrics & Gynecology
- JOHN E. VANHOODYDONK, M.D., Assistant Professor of Obstetrics & 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
- MARVIN G. GREGORY, 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
- JEFFREY BARRETT, M.D., Instructor in Obstetrics & Gynecology
- DOUGLAS H. BROWN, M.D., Instructor in Obstetrics & Gynecology
- MARY F. HAIRE, B.S.N., Assistant in Obstetrics & Gynecology

HARRY BAER, M.D., Clinical Instructor in Obstetrics & Gynecology
 DONALD R. BARNETT, M.D., Clinical Instructor in Obstetrics & Gynecology
 MICHAEL ROBERT BISHOP, M.D., Clinical Instructor in Obstetrics & Gynecology
 JAMES M. BRAKEFIELD, M.D., Clinical Instructor in Obstetrics & Gynecology
 GUILLERMO CADENA, M.D., Clinical Instructor in Obstetrics & Gynecology
 JILL F. CHAMBERS, M.D., Clinical Instructor in Obstetrics & Gynecology
 JACKSON DANIEL COTHREN, M.D., Clinical Instructor in Obstetrics & Gynecology
 RICHARD JOHN DAVIS, M.D., Clinical Instructor in Obstetrics & Gynecology
 JOE MICHAEL EDWARDS, M.D., Clinical Instructor in Obstetrics & Gynecology
 FREDERICK L. FINKE, 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
 ERICH B. GROOS, M.D., Clinical Instructor in Obstetrics & Gynecology
 CHARLIE JOE HOBODY, 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
 MARCIA A. MONTGOMERY, M.D., Clinical Instructor in Obstetrics & Gynecology
 PHILIP A. NICHOLAS, M.D., Clinical Instructor in Obstetrics & Gynecology
 JOHN W. O'DONNELL III, M.D., Clinical Instructor in Obstetrics & Gynecology
 RICHARD E. PRESLEY, 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
 GILMORE M. SANES, JR., 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
 ANTHONY E. TRABUE, 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
 CARL W. ZIMMERMAN, 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

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

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 and Director of Ophthalmic Laboratories

STEPHEN S. FEMAN, M.D., 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

JOEL M. WEINSTEIN, M.D., Assistant Professor of Ophthalmology

RALPH E. WESLEY, M.D., Assistant Professor of Ophthalmology

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

JOSEPH W. WAHL, M.D., Assistant Clinical Professor of Ophthalmology

E. DALE BATCHELOR, M.D., Clinical Instructor in Ophthalmology

M. TERRY BURKHALTER, M.D., Clinical Instructor in Ophthalmology

JAMES E. BURNES, M.D., Clinical Instructor in 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 W. McMAHAN, 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

DEBORAH J. RUARK, M.D., Clinical Instructor in Ophthalmology

JOSEPH W. SCOBAY, M.D., Clinical Instructor in Ophthalmology

CHARLIE R. SMITH, M.D., Clinical Instructor in Ophthalmology

JONATHAN N. TERHUNE, M.D., Clinical Instructor in Ophthalmology

WILLARD O. TIRRILL III, M.D., Clinical Instructor in Ophthalmology

GATES J. WAYBURN, JR., 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 techniques 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., Associate Professor of Radiology; Associate Professor of Orthopedics & Rehabilitation
- RONALD E. ROSENTHAL, M.D., Associate Professor of Orthopedics & Rehabilitation; Associate Professor of Anatomy
- RICHARD G. SHIAVI, Ph.D., Associate Professor of Biomedical Engineering, School of Engineering; Assistant Professor of Orthopedics & Rehabilitation
- 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
- JAMES M. LABORDE, M.D., Assistant Professor of Orthopedics & Rehabilitation
- MICHAEL A. MILEK, M.D., Assistant Professor of Orthopedics & Rehabilitation
- WILLIAM G. SALE III, M.D., Assistant Professor of Orthopedics & Rehabilitation
- ROBERT C. CODDINGTON, M.D., Assistant Clinical Professor of Orthopedics & Rehabilitation
- 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
- JOHN C. BROTHERS, M.D., Clinical Instructor in Orthopedics & Rehabilitation
- JOHN BRUNO, 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 L. 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
- JOHN W. LAMB, M.D., Clinical Instructor in Orthopedics & Rehabilitation

LAWRENCE P. LAUGHLIN, M.D., Clinical Instructor in Orthopedics & Rehabilitation
 THOMAS J. LIMBIRD, 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
 ROBERT F. TORSTRICK, M.D., Clinical Instructor in Orthopedics & Rehabilitation
 JOHN M. WAMPLER, M.D., Clinical Instructor in Orthopedics & Rehabilitation
 WALTER W. WHEELHOUSE, 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. 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 is available to students in their fourth year. 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

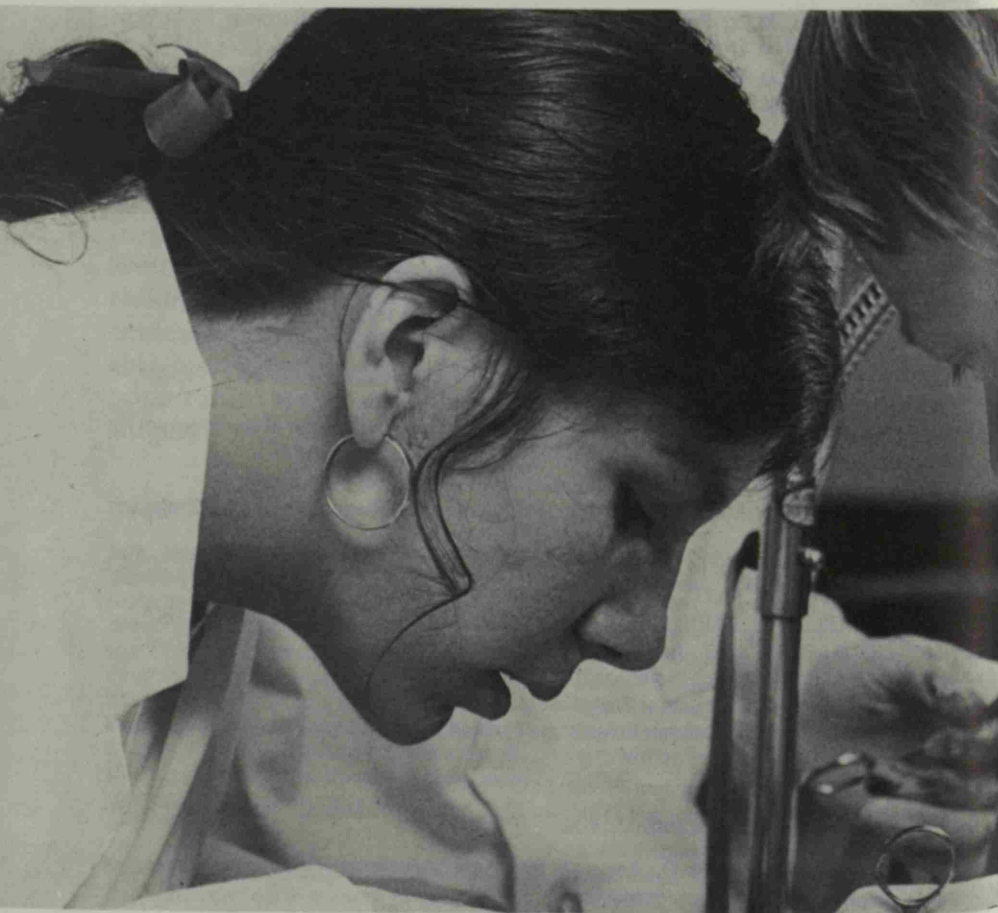
assigned to Orthopedic Surgery for two and one-half weeks. The two and one-half weeks will be spent with the students participating in ward patient care, clinic assignments, operating room experience, and daily conference. Students will be given a listing of materials they are expected to learn. D'Ambrosia's textbook, *Musculoskeletal Disorders*, will be the standard text. *Dr. Milek and 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
- FRED GORSTEIN, M.D., Professor of Pathology
- JACEK HAWIGER, M.D., D.M.Sc., Professor of Pathology; Professor of Medicine
- 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
- DAVID E. JENKINS, JR., M.D., Professor of Medicine; 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 Vice-President for Medical
Affairs
- BARTON McSWAIN, M.D., Professor of Surgery and 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; Director of the Cancer Center
- JOHN L. SHAPIRO, M.D., Professor of Pathology, Emeritus
- 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
- JOHN F. EDLAND, M.D., Associate Professor of Pathology
- JAMES P. FIELDS, M.D., Associate Professor of Medicine; Associate Professor of Pathology
- ALAN D. GLICK, M.D., Associate Professor of Pathology
- MARY E. GRAY, Ph.D., Associate Professor of Experimental Pathology
- MYRON HOLSCHER, D.V.M., Ph.D., Associate Professor of 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; Director of the Program for
Blood Bank Specialists
- 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
- CHARLES A. BRADLEY, Ph.D., Assistant Professor of Pathology
- M. JOAN BROUILLETTE, M.Ed., Senior Associate in Pathology (Died 14 March 1980)
- JOHN B. COUSAR, JR., M.D., Assistant Professor of Pathology
- ANH H. DAO, M.D., Assistant Professor of Pathology
- HUGH A. DAVIES, Ph.D., Assistant Professor of Pathology
- JAMES T. FORBES, Ph.D., Research Assistant Professor of Medicine; Research Assistant
Professor of Pathology
- SUSAN A. HALTER, M.D., Assistant Professor of Pathology
- A. G. KASSELBERG, M.D., Assistant Professor of Pathology; Assistant Professor of Pediat-
rics
- PAULETTE G. LANKFORD, Ph.D., Assistant Professor of Pathology; Associate Director of
the Division of Allied Health Professions
- ROBERT E. MRAK, M.D., Ph.D., Assistant Professor of Pathology
- FRITZ F. PARL, M.D., Ph.D., Assistant Professor of Pathology
- HILDA B. RATNER, B.A., Senior Associate in Pathology; Senior Associate in Medicine
- L. DOUGLAS RICHARDSON, M.D., Assistant Professor of Pathology
- WILSON G. RUSSELL, M.D., Assistant Professor of Pathology
- CHARLES W. STRATTON, M.D., Assistant Professor of Pathology; Assistant Professor of
Medicine

Dr. J. Lucas, M.D., Professor of Pathology, University of California, San Diego, is the author of the book "Pathology" published by McGraw-Hill. The book is a comprehensive text on pathology, covering both general and clinical aspects. It is written in a clear and concise style, making it an excellent resource for students and professionals alike. The book is available in paperback and hardcover formats.



Dr. J. Lucas, M.D., Professor of Pathology, University of California, San Diego, is the author of the book "Pathology" published by McGraw-Hill. The book is a comprehensive text on pathology, covering both general and clinical aspects. It is written in a clear and concise style, making it an excellent resource for students and professionals alike. The book is available in paperback and hardcover formats.

LARRY L. SWIFT, Ph.D., Assistant Professor of Pathology
 PATRICIA C. TANLEY, B.S., Associate in Pathology
 SHEILA D. TIMMONS, B.S., Senior Associate in Pathology
 SONG WIN WONG, M.B., B.S., Assistant Professor of 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
 THOMAS E. HANES, M.D., Assistant Clinical Professor of Pathology
 JERRY K. HUMPHREYS, M.D., Assistant Clinical Professor of Pathology
 ROBERT D. LINNABARY, D.V.M., M.S., Assistant Clinical Professor of Pathology
 LILIA D. MAURICIO, M.D., Assistant Clinical Professor of Pathology
 ADELISA PANLILIO, M.D., Assistant Clinical Professor of Pathology
 LOWELL W. ROGERS, M.D., Assistant Clinical Professor of Pathology
 FRED W. RYDEN, Ph.D., M.D., Assistant Clinical Professor of Pathology
 MARY L. ABRAM, M.D., Instructor in Pathology
 BETSY D. BENNETT, 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 D. NIBLACK, Ph.D., Instructor in Pathology
 SHIRLEY S. SCHUFFMAN, B.S., Instructor in Pathology
 SHIRLEY S. SCHUFFMAN, B.A., Instructor in Pathology
 MARIE TALLMAN WASSON, B.S., Instructor in Pathology
 CARLA M. DAVIS, M.D., Clinical Instructor in Pathology
 RICHARD OLDHAM, M.D., Clinical Instructor in Pathology
 ROBERT W. WAHL, M.D., Clinical Instructor in Pathology
 TAKAYOSHI FUJIMOTO, M.D., Research Associate in Pathology
 MAURICE H. HAUGH, 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,

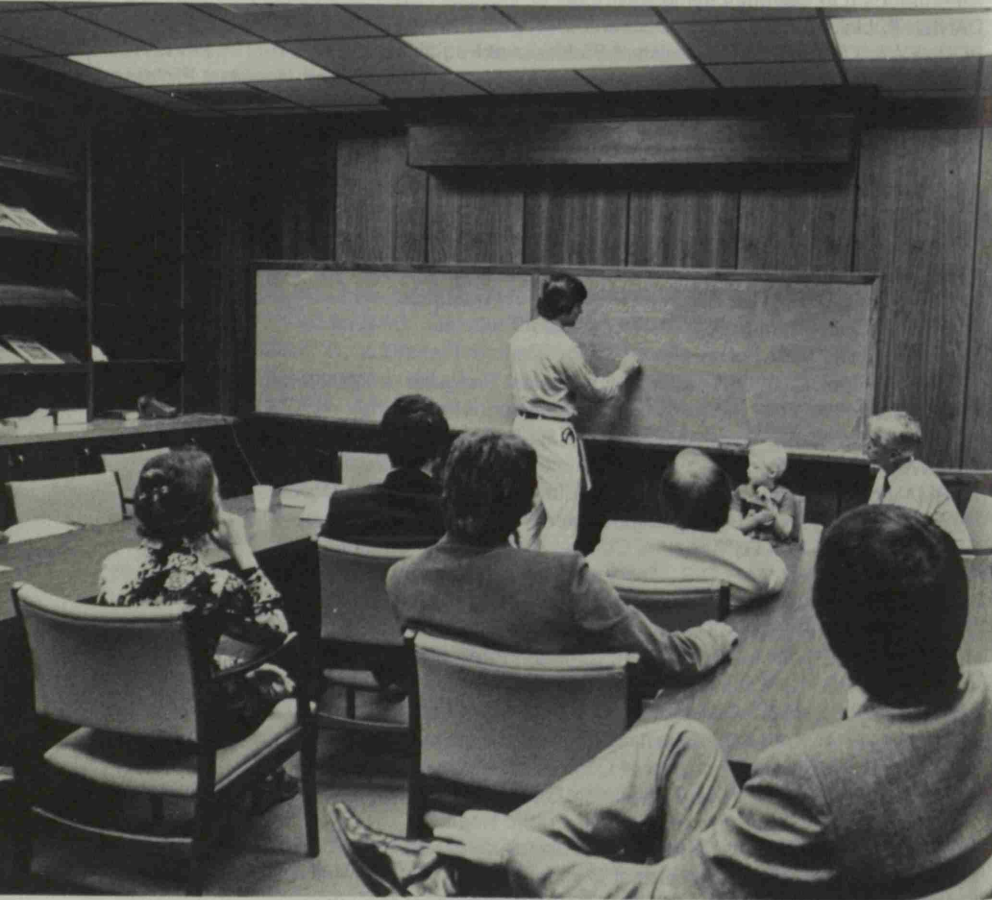
and laboratory work. Gross and microscopic lesions characteristic of various diseases are studied and correlated. [10]

Pediatrics

- DAVID T. KARZON, M.D., Professor of Pediatrics and Chairman of the Department
- WILLIAM A. ALTEMEIER III, M.D., Professor of Pediatrics; Instructor in Nursing, School of Nursing
- RANDOLPH BATSON, M.D., Professor of Pediatrics (On leave fall semester)
- 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
- HARRY L. GREENE, M.D., Professor of Pediatrics; Associate Professor of Biochemistry
- ALEXANDER R. LAWTON, M.D., Professor of Pediatrics; Edward Claiborne Stahlman Chair in Pediatric Physiology and Cell Metabolism; Professor of Microbiology
- 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 and Director of the Specialized Center of Research in Newborn Lung Diseases
- 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
- JOE M. STRAYHORN, M.D., Clinical Professor of Pediatrics
- ROBERT C. BOERTH, M.D., Ph.D., Associate Professor of Pediatrics; Associate Professor of Pharmacology
- WILLIAM D. DONALD, M.D., Associate Professor of Pediatrics
- HAKAN W. SUNDELL, M.D., Associate Professor of Pediatrics
- PETER F. WRIGHT, M.D., Associate Professor of Pediatrics; Assistant Professor of Microbiology
- LUTHER A. BEAZLEY, M.D., Associate Clinical Professor of Pediatrics
- EUGENE L. BISHOP, JR., M.D., Associate Clinical Professor of Pediatrics
- JAMES S. BROWN, M.D., Associate Clinical Professor of Pediatrics
- JOHN P. FIELDS, 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.B., B.Chir., D.C.H., Associate Clinical Professor of Pediatrics
- DAVID D. THOMBS, M.D., Associate Clinical Professor of Pediatrics
- WILLIAM BROWN WADLINGTON, M.D., Associate Clinical Professor of Pediatrics
- ARVILLE V. WHEELER, M.D., Associate Clinical Professor of Pediatrics
- 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
- JAMES A. BREITWESER, M.D., Assistant Professor of Pediatrics
- MARY C. CERRETO, Ph.D., Assistant Professor of Pediatrics; Assistant Professor of Psychology, George Peabody College for Teachers
- ROBERT B. COTTON, M.D., Assistant Professor of Pediatrics
- JAN L. CULBERTSON, Ph.D., Assistant Professor of Pediatrics (Psychology); Assistant Professor of Psychology
- KATHRYN M. EDWARDS, M.D., Assistant Professor of Pediatrics
- OWEN BEV EVANS, M.D., Assistant Professor of Neurology; Assistant Professor of Pediatrics


- PATRICIA V. FITZGIBBONS, M.A., Associate in Pediatrics
FAYEZ GHISHAN, M.D., Assistant Professor of Pediatrics
JOHN W. GREENE, M.D., Assistant Professor of Pediatrics
RICHARD M. HELLER, JR., M.D., Professor of Radiology; Assistant Professor of Pediatrics
A. G. KASSELBERG, M.D., Assistant Professor of Pathology; Assistant Professor of Pediatrics
ANTHONY W. KILROY, M.D., Assistant Professor of Neurology; Assistant Professor of Pediatrics
SANDRA G. KIRCHNER, M.D., Associate Professor of Radiology; Assistant Professor of Pediatrics (On leave fall semester)
DANIEL P. LINDSTROM, Ph.D., Research Assistant Professor of Pediatrics
RODNEY A. LORENZ, M.D., Assistant Professor of Pediatrics
ROBERT C. MacDONELL, JR., M.D., Assistant Professor of Pediatrics; Assistant Professor of Medicine
SUSAN M. O'CONNOR, M.D., Assistant Professor of Pediatrics; Adjunct Instructor in Nursing, School of Nursing
ELLEN C. PERRIN, M.D., Assistant Professor of Pediatrics
JAMES M. PERRIN, M.D., Assistant Professor of Pediatrics and Director of the Primary Care Center; Senior Research Associate, Institute for Public Policy Studies
JORGE ROJAS, M.D., Assistant Professor of Pediatrics
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., Assistant Professor of Pediatrics
ROBERT L. VanDERVOORT, JR., M.D., Assistant Professor of Pediatrics
THOMAS WHITWORTH, M.D., Assistant Professor of Pediatrics
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
WILLIAM F. FLEET, M.D., Assistant Clinical Professor of Pediatrics
PAUL C. W. GOMEZ, M.B.,B.S., 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
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 & Public Health
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
HELEN B. COZY, Ph.D., Instructor in Pediatrics
ELIZABETH F. DODSON, B.S.N., Assistant in Pediatrics
DENIS ENGLISH, Ph.D., Research Instructor in Pediatrics
RITA A. FIE, M.S.S.W., Instructor in Pediatrics (Social Work)
CATHERINE C. FOLK, B.S., Assistant in Pediatrics
SHAUL HAREL, M.D., Visiting Instructor in Neurology; Visiting Instructor in Pediatrics
GERARD HELINEK, JR., M.D., Instructor in Pediatrics
ALASTAIR A. HUTCHISON, M.B.,Ch.B., Instructor in Pediatrics
HENRY T. IREYS IV., Ph.D., Assistant in Pediatrics
MARK MERKENS, M.D., Instructor in Pediatrics
RICHARD D. OLSON, Ph.D., Instructor in Pediatrics

PATRICIA V. FITZBONE, M.A., Associate Professor
 FAYZ GHANAY, M.D., Assistant Professor of Pediatrics
 JOHN W. GREIVE, M.D., Assistant Professor of Pediatrics
 MICHAEL J. HARRIS, M.D., Assistant Professor of Pediatrics
 AND RABBITON, M.D., Assistant Professor of Pediatrics, Assistant Professor of Pathology
 ANTHONY WILKINSON, M.D., Assistant Professor of Pediatrics, Assistant Professor of Pathology
 LARORA O. KITCHNER, M.D., Assistant Professor of Pediatrics, Assistant Professor of Pathology



THOMAS B. COZY, Ph.D., Assistant Professor in Pediatrics
 GLENN H. HARRIS, M.D., Assistant Professor of Pediatrics
 JOHN W. GREIVE, M.D., Assistant Professor of Pediatrics
 MICHAEL J. HARRIS, M.D., Assistant Professor of Pediatrics
 AND RABBITON, M.D., Assistant Professor of Pediatrics, Assistant Professor of Pathology
 ANTHONY WILKINSON, M.D., Assistant Professor of Pediatrics, Assistant Professor of Pathology
 LARORA O. KITCHNER, M.D., Assistant Professor of Pediatrics, Assistant Professor of Pathology

- THOMAS C. RHEA, JR., Ph.D., Instructor in Pediatrics (Biophysics)
MARCIA RUSSELL, Ph.D., Instructor in Pediatrics
JULIETTE THOMPSON, M.S.N., Assistant in Pediatrics
RICK L. WILLIAMS, M.D., Instructor 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
CARLA BLOEDEL CLARK, M.D., Clinical Instructor in Pediatrics
ROLAND W. GRAY, M.D., Clinical Instructor in Pediatrics
DOUGLAS 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 (Pedodontics); Clinical Instructor in Pediatrics
LOWRY D. KIRBY, M.D., Clinical Instructor in Pediatrics
WILLIAM R. LONG, M.D., Clinical Instructor in Pediatrics
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
DAVID M. MORONEY, M.D., Clinical Instructor in Pediatrics
JOE MOSS, JR., M.D., Clinical Instructor in Pediatrics
DEWEY G. NEMEC, M.D., Clinical Instructor in Pediatrics
KENNETH T. NORTH, M.D., Clinical Instructor in Pediatrics
L. WILLARD PARKER, D.M.D., Clinical Instructor in Dentistry (Pedodontics); Clinical Instructor in Pediatrics
KAREN RHEA, M.D., Clinical Instructor in Pediatrics
FRED C. ROBINSON, M.D., Clinical Instructor in Pediatrics
ROBERT S. SANDERS, M.D., Clinical Instructor in Pediatrics; Assistant Clinical Professor of Preventive Medicine & Public Health
E. CONRAD SHACKLEFORD, JR., M.D., Clinical Instructor in Pediatrics
WILLIAM T. SLONECKER, M.D., Clinical Instructor in Pediatrics
C. NORMAN SPENCER, 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
FRANCOISE MARCHAL, M.D., 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 the outpatient service or in clinical externships.

Electives are available to students in all four years including such courses as: signposts of human growth and development; pediatric

pathophysiology; pathogenetic mechanisms in clinical infectious disease; pediatric ward rounds; an introduction to clinical pediatrics; nutrition rounds; the fundamentals of human development; methods of delivering pediatric medical care in rural areas; urban health problems; child behavior and growth and development.

Pediatric specialty clinics available to fourth-year students include: human development, allergy, cardiology, neurology, pulmonary, endocrinology, renal, diabetic endocrine, general pediatrics, gastroenterology, immunology, neonatology, infectious disease, and hematology. Fourth-year students may participate in the following clerkship electives: ward experience at Vanderbilt Hospital and Nashville General



ward and attend a series of clinical lectures and demonstrations. Fourth-year students participate in the outpatient service or in clinical electives. Electives are available to students in all four years including such courses as: diagnosis of human growth and development, pediatric

Hospital, child development, rural health, ambulatory pediatrics, pediatric cardiology, pediatric endocrinology, pediatric hematology, and pediatric gastroenterology and nutrition. Private practice preceptorships are available to fourth-year students. Research electives in the fourth year include programs in newborn physiology, all pediatric subspecialties, and the delivery of community medicine.

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. Clerkships may be substituted for this experience. *Dr. Donald and Dr. Altemeier.*

504. Clinical Lectures and Demonstrations. A series of eighteen 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 Clinical Pharmacology and Drug Toxicology

ELAINE SANDERS-BUSH, Ph.D., Professor of Pharmacology

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

FRIDLIN 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

- 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 (On leave 1980/81)
- 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
- DENNIS E. SCHMIDT, Ph.D., Associate Professor of Pharmacology
- BRIAN J. 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
- RAYMOND L. WOOSLEY, M.D., Associate Professor of Medicine; Associate Professor of Pharmacology
- ROBERT J. BARRETT, Ph.D., Associate Professor of Psychology, College of Arts & Science; Assistant Professor of Pharmacology
- ALAN R. BRASH, Ph.D., Assistant Professor of Pharmacology
- DANIEL M. BUXBAUM, Ph.D., Assistant Professor of Pharmacology; Assistant Dean of the Division of Educational Operations
- JOHN F. GERKENS, Ph.D., 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., Assistant Professor of Pharmacology
- GEORGE L. KRAMER, JR., Ph.D., Research Assistant Professor of Pharmacology
- NANCY LEITH, Ph.D., Assistant Professor of Pharmacology; Assistant Professor of Psychology, College of Arts & Science
- LEE E. LIMBIRD, Ph.D., Assistant Professor of Pharmacology
- MARTIN L. OGLETREE, M.D., Assistant Professor of Medicine; Assistant Professor of Pharmacology
- 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
- DOUGLASS F. TABER, Ph.D., Assistant Professor of Pharmacology; Research Assistant Professor of Chemistry, College of Arts & Science
- ALASTAIR J. J. WOOD, M.D., Assistant Professor of Medicine; Assistant Professor of Pharmacology
- MARGARET WOOD, M.B., Ch.B., Assistant Professor of Anesthesiology; Assistant Professor of Pharmacology
- RONALD KEITH CARR, M.S., Research Instructor in Pharmacology
- GARRET A. FITZGERALD, M.D., Instructor in Pharmacology; Instructor in Medicine
- ROBERT C. JAMES, Ph.D., Research Instructor in Pharmacology
- RICHARD P. KOSHAKJI, Ph.D., Research Instructor in Pharmacology
- ADRIAN H. KUEPFER, Ph.D., Research Instructor in Pharmacology
- RADHAKANTA MISHRA, Ph.D., Research Instructor in Pharmacology
- KENNETH AULSEBROOK, Ph.D., Research Associate in Pharmacology
- DAVID OWEN COOPER, 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
 HAL MANIER, M.S., Research Associate in Pharmacology
 PHILIP MOBLEY, Ph.D., Research Associate in Pharmacology
 KOICHI NAKAMURA, M.D., Research Associate in Pharmacology
 E. WILLIAM RADANY, Ph.D., Research Associate in Pharmacology
 ASHOK SRIVASTAVA, Ph.D., Research Associate in Pharmacology
 SHINICHI TSUNODA, M.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

J. D. CORBIN, Ph.D., Professor of Physiology; Investigator, Howard Hughes Medical Institute

JOHN H. EXTON, M.B., Ch.B., Ph.D., Professor of Physiology; Senior Investigator, Howard Hughes Medical Institute

CHARLES N. HALES, Ph.D., Visiting Professor of Physiology

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

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

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 Research and Training Center

DAVID L. GARBERS, Ph.D., Associate Professor of Pharmacology; Associate Professor of Physiology; Investigator, Howard Hughes Medical Institute
ROGER A. JOHNSON, Ph.D., Associate Professor of Physiology
DAVID N. ORTH, M.D., Professor of Medicine; Associate Professor of Physiology
SIMON PILKIS, Ph.D., M.D., Associate Professor of Physiology
THOMAS R. SODERLING, Ph.D., Associate Professor of Physiology; Investigator, Howard Hughes Medical Institute (On leave fall semester)
PETER F. BLACKMORE, Ph.D., Assistant Professor of Physiology
IAN M. BURR, M.D., Professor of Pediatrics; Assistant Professor of Physiology
TIMOTHY M. CHAN, Ph.D., Assistant Professor of Physiology
JEAN-LOUIS CHIASSON, M.D., Assistant Professor of Physiology
THOMAS H. CLAUS, Ph.D., Assistant Professor of Physiology
SHARRON FRANCIS, Ph.D., Assistant Professor of Physiology
ROBERT W. HARRISON, M.D., Assistant Professor of Medicine; Assistant Professor of Physiology, Investigator, Howard Hughes Medical Institute (On leave 1980/81)
BALWANT S. KHATRA, Ph.D., Assistant Professor of Physiology
SINDHAGHATTA D. VENKATARAMU, Ph.D., Research Assistant Professor of Chemistry, College of Arts & Science; Research Assistant Professor of Physiology
TED D. CHRISMAN, Ph.D., Instructor in Physiology
M. RAAFAT EL-MAGHRABI, Ph.D., Instructor in Physiology
F. MAHMOUD EL-REFAI, Ph.D., Instructor in Physiology
DAVID A. FLOCKHART, Ph.D., Instructor in Physiology
NADA A. ABUMRAD, Ph.D., Research Associate in Physiology
JAMES H. AYLWARD, Ph.D., Research Associate in Physiology
KRISHNAMURTHI BALASUBRAMANIAN, Ph.D., Research Associate in Physiology
ALBERT H. BETH, Ph.D., Research Associate in Physiology
WENDELL COMBEST, Ph.D., Research Associate in Physiology
YUTARO HAYASHI, Ph.D., Research Associate in Physiology
BERNARD P. HUGHES, Ph.D., Research Associate in Physiology
MARY M. JACKOWSKI, Ph.D., Research Associate in Physiology
KAZUHIDE OHNO, 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
CHARLES M. SCHWORER, Ph.D., Research Associate in Physiology
VIRENDER S. SHEORAIN, Ph.D., Research Associate in Physiology
KURT STEINER, Ph.D., Research Associate in Physiology
KAZUO SUZUKI, M.D., Research Associate in Physiology
YUKIKO TOKUMITSU, 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

- CHARLES F. FEDERSPIEL, Ph.D., Professor of Biostatistics and Director of the Division; Acting Chairman of the Department of Preventive Medicine & Public Health
- ROBERT W. QUINN, M.D., C.M., Professor of Preventive & Social Medicine, Emeritus; Professor of Epidemiology & Public Health, Environmental Water Resources Engineering
- LEWIS B. LEFKOWITZ, JR., M.D., Professor of Preventive Medicine & Public Health; Assistant Professor of Medicine
- WILLIAM SCHAFFNER, M.D., Professor of Medicine; Professor of Preventive Medicine & Public Health
- 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
- 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; Director of the Center for Health Services, Medical Center; 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
- ROBERT S. SANDERS, M.D., Clinical Instructor in Pediatrics; 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., Assistant Clinical Professor of Medicine; Clinical Instructor in Preventive Medicine & Public Health; Adjunct Instructor in Nursing, School of Nursing
- 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
 ROBERT S. QUINN, 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 Assistant Professor of 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: biometry; problems and experiences of aging; quantitative epidemiology; clinical trials and medical surveys; sampling methods; interdisciplinary seminar on problems in health care delivery; environmental/occupational health; and special projects in public health. A first-year field experience provides an introduction to comprehensive medical care. A preceptorship in primary health care; a seminar in public health, and clerkships in applied public health, venereal diseases, 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. An optional examination will be given in early February for those students who have had a previous course in statistics or who wish to do intensive self study. Satisfactory performance on this examination will satisfy 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. 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
- WILLIAM F. ORR, M.D., Professor of Psychiatry, Emeritus
- HOWARD B. ROBACK, Ph.D., Professor of Psychiatry (Clinical Psychology); Professor of Psychology, College of Arts & Science
- WARREN W. WEBB, Ph.D., Professor of Psychiatry (Clinical Psychology); Professor of Psychology, College of Arts & Science
- CHARLES E. WELLS, M.D., Professor of Psychiatry; Professor of Neurology
- OTTO BILLIG, M.D., Clinical Professor of Psychiatry, Emeritus
- 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)
- JAMES L. NASH, M.D., Associate Professor of Psychiatry
- 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
- EMBRY A. MCKEE, M.D., Associate Clinical Professor of Psychiatry
- 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
- C. RICHARD TREADWAY, M.D., Associate Clinical Professor of Psychiatry
- RALPH I. BARR, M.D., Assistant Professor of Psychiatry
- STUART A. BERNEY, Ph.D., Research 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
- DHRUVKUMAR V. GUNDERIA, M.D., Assistant Professor of Psychiatry
- MARK P. KELLY, Ph.D., Assistant Professor of Psychiatry (Psychology)
- SURENDRA KELWALA, M.D., Assistant Professor of Psychiatry
- DOUG KING, M.D., Assistant Professor of Psychiatry
- RONALD KOURANY, M.D., Assistant Professor of Psychiatry
- JOSEPH D. LaBARBERA, Ph.D., Assistant Professor of Psychiatry; Assistant Professor of Psychology, College of Arts & Science
- SANDRA R. LEAVELL, M.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)
- PERRY M. NICASSIO, Ph.D., Assistant Professor of Psychiatry (Psychology); Assistant Professor of Psychology, College of Arts & Science
- WILLIAM M PETRIE, M.D., Assistant Professor of Psychiatry
- ANDRES J. PUMARIEGA, M.D., Assistant Professor of Psychiatry
- PAULINE L. RABIN, M.B.,B.Ch., 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
- JOSEPH FISHBEIN, M.D., Assistant Clinical Professor of Psychiatry
- EDMON L. GREEN, M.D., Assistant Clinical Professor of Psychiatry
- JOHN J. GRIFFIN, M.D., Assistant Clinical Professor of Psychiatry
- JAMES H. HAMILTON, M.D., Assistant Clinical Professor of Psychiatry and University Psychiatrist
- FREDRICK T. HORTON, M.D., Assistant Clinical Professor of Psychiatry
- J. JOYCE ISAACS, M.D., Assistant Clinical Professor of Psychiatry
- ROBERT C. JAMIESON, 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
- SAMUEL J. L. PIEPER, JR., M.D., Assistant Clinical Professor of Psychiatry
- MOHAMED ALY RAGHEB, M.B.,B.S., 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)
- 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

ALVIN B. ROSENBLOOM, M.D., Lecturer in Psychiatry

AGNES SYLTE, R.N., Lecturer in Psychiatry

Human Behavior

VIRGINIA ABERNETHY, Ph.D., Professor of Psychiatry (Anthropology) and Head of the Division of Human Behavior; Senior Research Associate, Institute for Public Policy Studies

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

ERLINE H. GORE, M.S.N., R.N., Associate Professor of Psychiatric Nursing

HANS H. STRUPP, Ph.D., Distinguished Professor of Psychology

✦ 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. Crowder 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, conferences, lectures, and demonstrations of psychiatric, psychological, and social work practices. *Dr. Crowder.*

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 well-being 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 & SPRING. *Dr. Kourany.*

Radiology and Radiological Sciences

- A. EVERETTE JAMES, JR., Sc.M., M.D., J.D., Professor of Radiology and Chairman of the Department; Professor of Medical Administration (Legal Medicine)
- JOSEPH H. ALLEN, JR., M.D., Professor of Radiology; Director of Neuroradiology
- RICHARD M. HELLER, JR., M.D., Professor of Radiology; Assistant Professor of Pediatrics; Director of Residency Training
- HENRY P. PENDERGRASS, M.D., M.P.H., Professor of Radiology and Vice-Chairman of the Department
- F. DAVID ROLLO, Ph.D., M.D., Professor of Radiology and Director of the Program in Nuclear Medicine Technology; Assistant to the Dean for Hospital Affairs (Medical Center)
- EDWARD SIEGEL, Ph.D., Professor of Radiology; Professor of Physics, College of Arts & Science; Director of Radiation Biology
- 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
- JEREMY J. KAYE, M.D., Associate Professor of Radiology; Associate Professor of Orthopedics & Rehabilitation; Director of the Program in Radiologic Technology; Director of Division of Diagnostic Radiology
- SANDRA G. KIRCHNER, M.D., Associate Professor of Radiology and Director of Medical Student Programs; Assistant Professor of Pediatrics (On leave fall semester)
- CARLOS MUHLETALER, M.B.,B.S., Associate Professor of Radiology and Associate Director of Diagnostic Radiology
- C. LEON PARTAIN, Ph.D., M.D., Associate Professor of Radiology
- JAMES A. PATTON, Ph.D., Associate Professor of Radiology
- RONALD R. PRICE, Ph.D., Associate Professor of Radiology; Associate Professor of Physics, College of Arts & Science; Director of Image Analysis
- MAX ISRAEL SHAFF, M.D., Visiting Associate Professor of Radiology
- 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
- CRAIG M. COULAM, M.D., Ph.D., Adjunct Associate Professor of Radiology
- HAROLD J. DeBLANC, JR., M.D., Associate Clinical Professor of Radiology
- THOMAS R. DUNCAN, M.D., Associate Clinical Professor of Radiology
- JOSEPH McK. IVIE, M.D., Associate Clinical Professor of Radiology
- JAMES B. MILLIS, M.D., Associate Clinical Professor of Obstetrics & Gynecology; Associate Clinical Professor of Radiology
- RONALD E. OVERFIELD, M.D., Associate Clinical Professor of Radiology
- SAIN D. AHUJA, Ph.D., Assistant Professor of Radiology
- MARK LEONARD BORN, M.D., Assistant Professor of Radiology
- JEFFREY A. CLANTON, M.S., Associate in Radiology
- FRANCISCO CORREA-PAZ, M.D., Assistant Professor of Radiology
- JON J. ERICKSON, Ph.D., Assistant Professor of Radiology
- ARTHUR C. FLEISCHER, M.D., Assistant Professor of Radiology

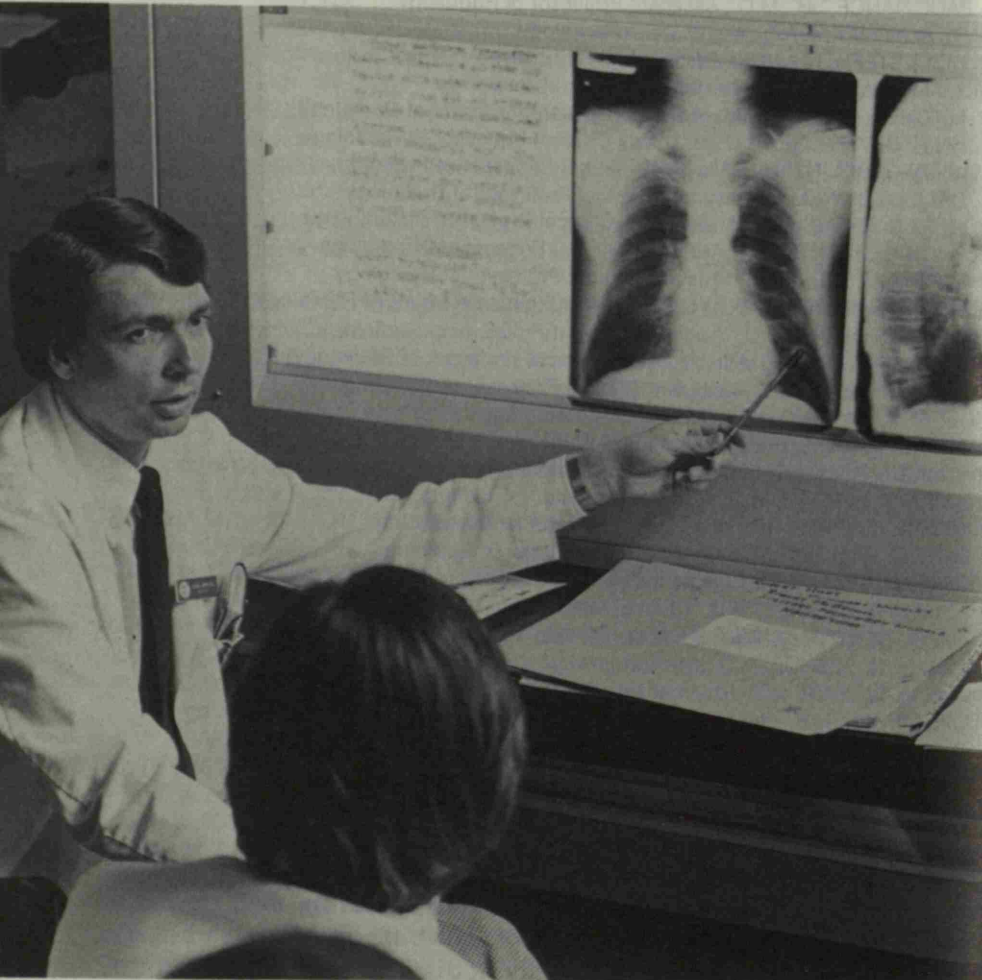
MINYARD D. INGRAM, M.D., Assistant Professor of Radiology; Director of Breast Cancer Detection Center
A. C. JOHNSON, M.B.,B.S., Ph.D., Assistant Professor of Radiology (On leave 1980/81)
HOWARD JOLLES, M.D., Assistant Professor of Radiology
MARVIN W. KRONENBERG, M.D., Assistant Professor of Medicine; Assistant Professor of Radiology
PETER LAMS, M.B.,B.S., Assistant Professor of Radiology
E. PAUL NANCE, JR., M.D., Assistant Professor of Radiology
GARY R. NOVAK, L.A.T., Associate in Radiology
W. HOYT STEPHENS, M.S., Associate in Radiology
WILLIAM S. WITT, 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
MARION G. BOLIN, M.D., Assistant Clinical Professor of Radiology
C. DALE BROWN, 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
R. BARRY GROVE, M.D., Assistant Clinical Professor of Radiology
ELLIOTT H. HIMMELFARB, M.D., Assistant Clinical Professor of Radiology
JAMES R. MOYERS, M.D., Assistant Clinical Professor of Radiology
A. KNOX PATTERSON, M.D., Assistant Clinical Professor of Radiology
W. FAXON PAYNE, M.D., Assistant Clinical Professor of Radiology
ROBERT A. BATTINO, M.D., Instructor in Radiology
JEROME P. JONES, Ph.D., Instructor in Radiology
THOMAS A. POWERS, M.D., Instructor in Radiology
WILLIAM T. FARRAR, M.D., Clinical Instructor in Radiology
CLIFTON E. GREER, JR., M.D., Clinical Instructor in Radiology
HENRY C. HOWERTON, M.D., Clinical Instructor in Radiology
ROBERT J. LINN, M.D., Clinical Instructor in Radiology
RICHARD P. OWNBEY, 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

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Editorial Board
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Edward J. Cole, M.D., Assistant Professor of Radiology
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The Journal of the American College of Radiology is a quarterly journal of radiology and related subjects.

Radiology and the Generalist



both ultrasound and computerized axial tomography in the study of cross-sectional anatomy of the body is emphasized in the last year. As part of the sophomore course, Methods in Clinical Research, first-year students conduct small group research projects and present their findings. In the third-year students attend the departmental presentations as a part of their clinical rotations and use the use of sophisticated 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
- 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
- JAMES PATRICK O'LEARY, M.D., 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

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
WILLIAM S. STONEY, JR., M.D., Clinical Professor of Surgery
R. BENTON ADKINS, JR., M.D., Associate Professor of Surgery; Associate Professor of
Anatomy
RICHARD H. DEAN, 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
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
NAJI ABOU-MOURAD, M.D., Research Assistant Professor of Medicine; Research Assistant
Professor of Surgery
ILDEFONSO A. ALCANTARA, M.D., Assistant Professor of Anesthesiology; Assistant Pro-
fessor of Surgery
ROBERT L. BOMAR, JR., M.D., Assistant Professor of Surgery
BRUCE M. SMITH, M.D., Assistant Professor of Surgery
MARION B. TALLENT, JR., 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
PHILLIP P. BROWN, 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., Assistant 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
TERRY ALLEN, M.D., Clinical Instructor in Surgery
ROBERT C. BONE, M.D., Clinical Instructor in Surgery; Clinical Instructor in Pediatrics
KENNETH L. CLASSEN, M.D., Clinical Instructor in Surgery
J. MICHAEL CRANE, 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
 CONN M. McCONNELL, M.D., Clinical Instructor in Surgery
 M. CHARLES McMURRAY, M.D., Clinical Instructor in Surgery
 JOE M. MILLER, M.D., Clinical Instructor in Surgery
 FRANCIS MICHAEL MINCH, M.D., Clinical Instructor in Surgery
 I. ARMISTEAD 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
 GENE M. SHUFORD, D.D.S., 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 (Orthodontics)
 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 Dental Surgery, Emeritus
 PHILLIP E. HUTCHESON, D.D.S., M.S.D., Assistant Clinical Professor of Dentistry; Assistant
 Clinical Professor of Plastic Surgery
 ROBERT C. LINEBERGER, D.D.S., Assistant Clinical Professor of Dentistry (Orthodontics)
 FRED M. MEDWEDEFF, D.D.S., Assistant Clinical Professor of 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 (Pedodontics); Clinical Instructor
 in Pediatrics
 L. WILLARD PARKER, D.M.D., Clinical Instructor in Dentistry (Pedodontics); Clinical Instruc-
 tor in Pediatrics
 DIANE G. WEISBERG-POSNICK, D.M.D., Clinical Instructor in Dentistry

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

RAY W. HESTER, M.D., Associate Clinical Professor of Neurosurgery
 ARNOLD MEIROWSKY, M.D., Associate Clinical Professor of Neurosurgery
 ARTHUR G. BOND III, M.D., Assistant Clinical Professor of Neurosurgery
 EVERETTE I. HOWELL, 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 Neurosurgery
 JAMES W. HAYS, 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
 ELMORE HILL, D.M.D., Associate Clinical Professor of Oral Surgery
 EDWARD H. MARTIN, D.M.D., Associate Clinical 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
 CHARLES W. WILLIAMS, JR., 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 Sciences (Otolaryngology)
 ROBERT COLEMAN, Ph.D., Professor of Hearing & Speech Sciences (Speech Pathology);
 Assistant Professor of Otolaryngology
 CLYDE V. ALLEY, JR., M.D., Assistant Clinical Professor of Otolaryngology
 J. THOMAS BRYAN, M.D., Assistant Clinical Professor of Otolaryngology
 JERRALL P. CRGOK, 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 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
 C. GARY JACKSON, M.D., Clinical Instructor in Otolaryngology; Assistant Clinical Profes-
 sor of Hearing & Speech Sciences (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
 WALLACE W. NEBLETT III, M.D., Clinical Instructor in 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
 DAVID G. BOWERS, JR., M.D., Associate Clinical Professor of Plastic Surgery
 JOHN DAVID FRANKLIN, M.D., Assistant Professor of Plastic Surgery
 JAMES MADDEN, JR., M.D., Assistant Professor of Plastic Surgery
 JAMES H. FLEMING, JR., M.D., Assistant Clinical Professor of Plastic Surgery
 PHILLIP E. HUTCHESON, D.D.S., M.S.D., Assistant Clinical Professor of Dentistry; Assistant Clinical Professor of Plastic Surgery
 CHARLES W. MacMILLAN, M.D., Assistant Clinical Professor of Plastic Surgery
 THOMAS W. ORCUTT, 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
 LILLIAN NANNEY, Ph.D., Research Associate in Plastic Surgery; Research Associate in Anatomy

Thoracic and Cardiac Surgery

- HARVEY W. BENDER, JR., M.D., Professor of Surgery and Chairman of the Department of Thoracic & Cardiac Surgery
 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
 DOUGLAS H. RIDDELL, M.D., Clinical Professor of Surgery
 WILLIAM S. STONEY, JR., 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
 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
 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
 WILLIAM A. NYLANDER, M.D., Research Associate in Thoracic & Cardiac 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 (On leave 1980/81)
 HARRY S. SHELLEY, M.D., Associate Professor of Urology, Emeritus; Honorary Curator of the Historical Collection in the Medical Library
 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; Associate Professor of Biomedical Engineering, School of Engineering
 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 JR., 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 B. 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
 DAVID H. MORGAN, M.D., Ph.D., Clinical Instructor in Urology
 ROBERT A. SEWELL, M.D., Clinical Instructor in Urology
 J. DOUGLAS TRAPP, 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 as: sex 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 Staff.*

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 1980-81

First-Year Class

MARK DONALD ANDERSON (B.A., Grinnell) New Hampton, Iowa

ROBERT MICHAEL ARIS (B.A., Jacksonville) Jacksonville, Fla.

LARRY BRYAN BALDWIN (B.S., Pepperdine) Lompoo, Calif.

JOHN BENJAMIN BOND (B.S., Vanderbilt) Nashville, Tenn.

NANCY LEAH BROADY (B.A., Tennessee) Pigeon Forge, Tenn.

HARRY HOWARD BROWN (B.S., O.D., Indiana) Marion, Ind.

BARBARA ANNETTE BUECHY (B.S., California) Mill Valley, Calif.

DANIEL JOSEPH BURCH (B.S., South Carolina) Aiken, S.C.

ROBERT DOUGLAS CEBUL (A.B., Wabash) Wooster, Ohio

GEOFFREY DAVID CHAZEN (B.A., Amherst) Nashville, Tenn.

KATHLEEN RUTH CHO (B.A., Yale) Rockville, Md.

JOHN ALLEN CROW (B.S., Mississippi) Starkville, Miss.

CARLOS RENEE DALENCE (A.B., Stanford) Rancho Palos Verdes, Calif.

PETER GERALD D'AMOUR (A.B., Indiana) West Terre Haute, Ind.

LEE BUEL DANIEL (B.A., Vanderbilt) Danville, Ky.

WILLIAM C. DINWIDDIE, JR. (B.S., Auburn) Millbrook, Ala.

BARBARA DUBIEL (B.S., Yale) East Hartford, Conn.

PATRICIA LORRAINE ERBE (B.A., Monmouth) Santa Barbara, Calif.

RON DELAYNE FLEMING (B.S., Virginia Commonwealth) Reston, Va.

MILTON JACK FOUST, JR. (B.A., Vanderbilt) Collierville, Tenn.

HUGH FRANCIS III (B.S. Vanderbilt) Memphis, Tenn.

MITCHELL JAY FREED (B.S., Florida) Miami, Fla.

CAREN ELIZABETH GAINES (B.S., Emory) Daytona Beach, Fla.

RUSSELL EUGENE GALLOWAY (B.A., Southwestern Memphis) Memphis, Tenn.

FRANK JOHN GRESKOVICH III (B.A., U. of the South) Pensacola, Fla.

STEVEN SMILEY GUEST (B.A., Emory) Montgomery, Ala.

BARTON CHARLES GUMPert, JR. (B.S., Muhlenberg) Tucker, Ga.

SUSAN ANN HAGNER (B.A., Indiana) Park Ridge, Ill.

RICHAD SCOTT HALL (B.A., Tennessee) Nashville, Tenn.

DOUGLAS HOWARD HAMILTON (A.B., Vanderbilt) Philadelphia, Pa.

CHERYL MENZIES HENRY (B.S. Vanderbilt) Jackson, Tenn.

WILLIAM FOWLER HILTZ (B.A., U. of Cal., San Diego) San Diego, Calif.

MARYLEE HOWELL (B.S., Duke) Summer, Md.

LARRY STEVEN HUNT (B.S.E., Duke) Cumberland Md.

BRADLEY GLENN JACOBY (B.S., Auburn) Montgomery, Ala.

ROY ANDREW JENSEN (B.S., Pittsburg) Paola, Kans.

SHERRY LEE JORDAN (B.A., Vanderbilt) West Paducah, Ky.

JOHN HERNDON KARNES (A.B., Sanford) Sylmar, Calif.

GLENN JOSEPH KEHS (B.S., Loyola) Baltimore, Md.

JON DAVID KIRSCH (B.S., Washington) Chappaqua, N.Y.

STEVEN LEWIS KLEIN (B.S., Washington) Seattle, Wash.

GERALD PAUL KONRAD (B.A., M.S., Stanford) Fresno, Calif.

PAUL DOMINIC KOUNTZ, JR. (B.S., A.B., Wofford) Spartanburg, S.C.

LAURA KEAN KRAMER (B.A., Yale) St. Thomas, Virgin Islands

- KRIS ELIZABETH KUHN (B.A., Vanderbilt) Nashville, Tenn.
 ROBERT WILLIAM KURRLE (B.S., Cincinnati, M.S., New York) Huntsville, Ala.
- GERALD ALLEN LARSON (B.A., Vanderbilt) Huntsville, Ala.
 LAURA JO LEHMANN (B.A., Vanderbilt) Louisville, Ky.
 MARGARET RUTH LINN (B.E., Vanderbilt) Nashville, Tenn.
- SARA TOWNSEND MACMILLAN (B.A., Wooster) Nashville, Tenn.
 MORGAN L. MAGID (B.S., U. of Cal., San Deigo) Los Gatos, Calif.
 LOREN HESS MARSHALL (B.S., Northwestern) Wilmette, Ill.
 JACK BASS MCCALLIE (B.A., Virginia) Chattanooga, Tenn.
 BENJAMIN D. MCCALLISTER (B.S., Stanford) Mission Hills, Kans.
 DAVID MICHAEL MCCOY (B.S., Virginia) Oak Ridge, Tenn.
 JOSEPH EDWARD MCCULLOUGH (A.B., Duke) Memphis, Tenn.
 WILLIAM HENRY MATTHAI, JR. (B.S., Washington & Lee) Baltimore, Md.
 CALVIN RAYMOND MAURER, JR. (B.S., Princeton) Springfield, Va.
 ROLF WALTER MEINHOLD (A.B., Occidental) Glendale, Calif.
 DAVID PAUL MESNA (B.A., St. Olaf) Edina, Minn.
 ELIZABETH A. MISSKELLY (B.S., Furman) Rock Hill, S.C.
 ROBERT THOMAS MITCHELL (B.A., Tennessee) Summer, Tenn.
 FRANCISCO JAVIER MUNOZ (A.B., Columbia) Flushing, N. Y.
- THOMAS CHARLES NASLUND (B.A., Trinity) Amarillo, Texas
 KIMBERLY ANN NEELY (B.S., Pennsylvania) Clarion, Pa.
 PHILIP EARL NEELY (B.S., Vanderbilt) Huntsville, Ala.
- CATHERINE C. OHSIEK (B.S., Rensselaer Poly Institute) Buffalo, N. Y.
- STEVEN PETER PETROU (B.S., Emory) Harris, Ga.
 MICHAEL PIETRO (B.S., Chicago) Hillsborough, Calif.
 MARK TAFFEL POLLOCK (B.S., Georgia) Atlanta, Ga.
 CHARLES GENE PRIBBLE (B.S., Claremont Men's College) Los Angeles Calif.
- PAULA DENISE RANDOLPH (A.B., Princeton) Memphis, Tenn.
 B. DENISE RAYNOR (B.A., Cornell) Nashville, Tenn.
 MARK WILLIAM REDOR (B.A., California) Davis, Calif.
 JULIE ANN REMUND (B.S., South Dakota) Mitchell, S. Dak.
 WILLIAM LOUIS RICE (B.S., Millsaps) Tupelo, Miss.
 BRIAN DALE RIEDEL (B.S., Emory) Pinellas, Fla.
 MICHAEL CHALES ROBERTS (B.S., Vanderbilt) St. Petersburg, Fla.
 RICHARD EARLE ROCHESTER (B.S., Clemson) Seneca, S.C.
 THOMAS MARKU ROSCH (B.S., U. of the Pacific) Lodi, Calif.
 BRIAN JEFFREY ROSENTHAL (A.B., Duke) Akron, Ohio
 MARK STEVEN ROUTBURG (B.S., Missouri) St. Louis, Mo.
 MARK WARREN RUSSO (B.S., S. Illinois) Edwardsville, Ill.
- THOMAS MARK SCHILLER (B.S., Whitworth) Tacoma, Wash.
 FRANK JOHN SCHLEHR, JR. (B.S., Notre Dame) Buffalo, N.Y.
 BARBARA ANN SCHNEIDER (B.S., California) Davis, Calif.
 MARC EDWARD SHELTON (B.A., Missouri) Rolla, Mo.
 DAVID WARREN SIMPSON (B.S., Illinois) Madison, Wis.
 ROBERT BRIAN SWOTINSKY (B.S., Mass. Inst. of Tech.) Morris Plains, N.J.
- PATRICK SPENCER TEKELI (B.A., California) San Francisco, Calif.
 LENITA HELEN THIBAUT (B.A., Johns Hopkins) Frederick, Md.
 DAVID SQUIRE THORPE (B.S., Arizona) Mesna, Ariz.
 JAMES DAVID THURSTON (B.S., Weber) Brigham City, Utah
 PAUL JOHN TOBBEN (A.B., Missouri) Washington, Mo.
 ROBERT ELTON TONSING (A.B., Harvard) Ballwin, Mo.

- JOHN WEST VANWERT (B.A., Duke) Ormond Beach, Fla.
 RANDALL PAUL WAGNER (B.S., Wright) Dayton, Ohio
 IRVING DAVID WEINER (B.S., Vanderbilt) Orlando, Fla.
 MARK JOSEPH WERNER (B.A., Rice) Tucson, Ariz.
 DAVID WILLIAM WHITE (B.S., Vanderbilt) Tulsa, Okla.
 JAMES ALAN WHITLOCK (B.S., Southwestern, Memphis) Kingsport, Tenn.
 CHARLES STEVEN WILSON (Degree in Absentia, Tennessee) Nashville, Tenn.
 DAVID MARK WOLF (B.S., Rutgers) Westfield, N.J.
 STEVEN HENRY YOOD (B.S., Davidson) Chattanooga, Tenn.

Second-Year Class

- MARK CHARLES ADAMS (B.A., Vanderbilt) Columbus, Ga.
 JACK WILLIAM ALAND, JR. (B.A., Brown) Birmingham, Ala.
 ALBERT IRVIN ALEXANDER (B.S., Brown) Andover, Ma.
 JOHN ALAN ANDREW (B.S., Stanford) Park Ridge, Ill.
 ROZELLE JENEE BARBER (B.S., Loma Linda) Los Angeles, Calif.
 BRYAN DANIEL BEAVER (B.A., Vanderbilt) Nashville, Tenn.
 RICHARD ALLEN BERNSTEIN (B.S., Michigan, Ann Arbor) Bethesda, Md.
 HENRY MICHAEL BLUMBERG (B.A., Washington) Albuquerque, New Mex.
 RICHARD RALPH BOESEL (B.A., Duke) Morristown, N.J.
 DENNIS BONNER (B.S., Alabama A&M) Roanoke, Ala.
 LAUREN VIRGINIA BOWER (B.S., California, Irvine) Orange, Calif.
 SARAH JANE BROWN (B.A., Vanderbilt) Charleston, Mo.
 DAVID ALLEN BURACK (B.S., Duke) Short Hills, N.J.
 MICHAEL DENNEY CALLAWAY (B.S., Emory) Franklin, Tenn.
 JAMES TIMMONS CALLIS (B.S., Western Kentucky) Owensboro, Ky.
 CHARLES POWELL COCHRAN, JR. (B.S., Davidson College) Atlanta, Ga.
 JOHN ROBERT COGGINS, JR. (B.S., Auburn) Auburn, Ala.
 RICHARD JAMES CONKLIN (B.S., B.A., Syracuse) Syracuse, N.Y.
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 WILLIAM MARK BAKER (B.A., San Diego) Orange, Calif.
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 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., 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 CZORNIK (B.S., M.S., Connecticut) West Hartford, Conn.

STEVEN MICHAEL DANDALIDES (B.A., Oberlin) Chardon, Ohio
 DAVID GORDON DANIEL (B.A., Emory) Jackson, Miss.
 MICHAEL VANCLEFF DELAHUNT (B.S., New Hampshire) Syosset, N.Y.
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 ANDRE MARK DURAND (B.A., Brown) Maryville, Tenn.
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James Loyd, M.D.

Charles McKay, M.D.

Ruth Miller-Frost, M.D.

Mark C. Mitchell, Jr., M.D.

David Oviatt, M.D.

Richard E. Parker, Ph.D.

Lester Porter, M.D.

Ronald P. Robinson, M.D.

Dan Mark Roden, M.D.

Martin Sandler, M.B., Ch.B.

David S. Stephens, M.D.

William G. Woolery, M.D.

Hiroki Yoshimi, M.D.

Pathology

Gerald Eggers, M.D.

Steven H. Swerdlow, M.D.

John C. York, II, M.D.

Pediatrics

Elizabeth J. Brown, M.D.

Brigitta Lantering, M.D.

Lars Larsson, M.D.

Kelly T. McKee, M.D.

Francois J. L. Marchal, M.D.

Linda Mayes, M.D.

Ray Meneely, M.D.

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Paul Parker, M.D.

Mark Parrish, M.D.

Gregory Sorensen, M.D.

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Charlene A. Weisberg, M.D.

Pharmacology

Margaret A. Blackshear, Ph.D.

Jean-Marie Boeynaems, M.D.

Edmund L. Carey, Jr., M.D.

Deborah Doyle, M.D.

Henry Duff, M.D.

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Edwin K. Jackson, Ph.D.

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Lewis L. Martin, Ph.D.

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Psychiatry

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Harufusa Higano, M.D.

Rudra Prakash, M.D.

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Plastic Surgery

Riley Rees, M.D.

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University of Washington Affiliated Hospitals, Seattle (Psychiatry)	
MARTIN ELDRIDGE BACON	Jacksonville, Fla.
Naval Regional Medical Center, Portsmouth, Va. (Internal Medicine)	
JOHN CHARLES BALDINGER	Bethesda, Md.
University of Pittsburgh Medical Center, Pittsburgh, Pa. (Internal Medicine)	
ROBERT LESLIE BARRACK	Oak Ridge, Tenn.
Naval Regional Medical Center, Portsmouth, Va. (Surgery)	
ANTHONY NETTERVILLE BRANNAN	Tampa, Fla.
Mayo Graduate School of Medicine, Rochester, Minn. (Surgery)	
DONNA LESLIE BRATTON	West Palm Beach, Fla.
Vanderbilt University Affiliated Hospitals (Pediatrics)	
MARK ALAN BRIEL	Evansville, Ind.
Medical College of Ohio Hospital, Toledo (Obstetrics-Gynecology)	
DEBORAH MOBLEY BRYANT	Little Rock, Ark.
Vanderbilt University Affiliated Hospitals (Pediatrics)	
DELAND DARRELL BURKS	Guntersville, Ala.
University of Alabama Medical Center, Birmingham (Internal Medicine)	
DAVID JOHN BYLUND	Bemus Point, N.Y.
Naval Regional Medical Center, San Diego, Calif. (Pathology)	
GARY ELLIS CARNAHAN	Nashville, Tenn.
Vanderbilt University Affiliated Hospitals (Internal Medicine)	
WALTER WINN CHATHAM	Fort Lauderdale, Fla.
North Carolina Memorial Hospital, Chapel Hill (Internal Medicine)	
DAVID JOHN CLYMER	Salina, Kans.
University of Kansas Medical Center, Kansas City (Orthopedic Surgery)	
JEFFREY PAUL COOPER	Short Hills, N.J.
University of California Hospitals, Los Angeles (Surgery)	
NEIL LEON DARBY	Marietta, Ga.
Vanderbilt University Affiliated Hospitals (Internal Medicine)	
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Vanderbilt University Affiliated Hospitals (Surgery)	
STEVEN HARRIS DOWLEN	Chattanooga, Tenn.
Vanderbilt University Affiliated Hospitals (Internal Medicine)	
RAYMOND GEORGE DUFRESNE, JR.	North Providence, R.I.
Vanderbilt University Affiliated Hospitals (Internal Medicine)	
THEODORE EVERETT EASTBURN III	Nashville, Tenn.
Tripler Army Medical Center, Honolulu, Hawaii (Internal Medicine)	
KATHERINE CLAIRE EDWARDS	Farnham, Va.
Medical College of Ohio Hospital, Toledo (Obstetrics-Gynecology)	
LEE WAYNE ERLENDSON	Long Beach, Calif.
University of Hawaii Residency Program, Honolulu, Hawaii (Internal Medicine)	
CONARD FREDERICK FAILINGER III	Cohasset, Mass.
Vanderbilt University Affiliated Hospitals (Internal Medicine)	
MICHAEL EDWARD FANT	Memphis, Tenn.
Children's Center—Boston, Boston, Mass. (Pediatrics)	
CHARLES PATRICK FITZGERALD	Frankfort, Ky.
Vanderbilt University Affiliated Hospitals (Internal Medicine)	
JEFFREY CARL FOSNES	Denver, Colo.
Bayfront Medical Center, Saint Petersburg, Fla. (Family Practice)	

ANDREW JOSEPH FRIEDMAN	New York, N.Y.
Yale-New Haven Medical Center, New Haven, Conn. (Obstetrics-Gynecology)	
LAWRENCE ENGLISH GAGE	Wilmington, N.C.
Strong Memorial Hospital, Rochester, N.Y. (Internal Medicine)	
GARY ALAN GOFORTH	Johnson City, Tenn.
Tripler Army Medical Center, Honolulu, Hawaii (Family Practice)	
MARK ALAN GREENBERG	Fort Myers, Fla.
Walter Reed Army Medical Center, Washington, D.C. (Internal Medicine)	
STEVEN RICHARD HANOR	Cincinnati, Ohio
Cincinnati General Hospital, Cincinnati, Ohio (Internal Medicine)	
LEO MARTIN HATTRUP	Wichita, Kans.
Travis Air Force Medical Center, San Francisco, Calif. (Family Practice)	
LINDA LOUISE HAWKINS	Chicago Heights, Ill.
Vanderbilt University Affiliated Hospitals (Psychiatry)	
JAMES TAYLOR HAYS	West Frankfort, Ill.
Vanderbilt University Affiliated Hospitals (Internal Medicine)	
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University of Kentucky Medical Center, Lexington (Surgery)	
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University of Arizona Affiliated Programs, Tucson (Pediatrics)	
KARLA MARIE JANSEN	West Bend, Wis.
University of Wisconsin Affiliated Hospitals, Madison (Internal Medicine)	
JAMES ASHMORE JOHNS	Baltimore, Md.
University of Wisconsin Affiliated Hospitals, Madison (Pediatrics)	
JAMES EDWARD JOHNSON	Enterprise, Ala.
Brooke Army Medical Center, San Antonio, Texas (Internal Medicine)	
THOMAS KEITH JONES	Dothan, Ala.
Medical College of Virginia, Richmond (Surgery)	
MARC ANDREW JUDSON	New York, N.Y.
Montefiori Hospital, New York, N.Y. (Internal Medicine)	
PAUL ANDREW JUSTICE, JR.	Nashville, Tenn.
Vanderbilt University Affiliated Hospitals (Internal Medicine)	
AUDREY JEAN KLINE	Fort Lauderdale, Fla.
University of California—San Diego (Psychiatry) PGY-2	
ROBERT CRAIG KUYKENDALL	Hot Springs, Ark.
University of Texas Affiliated Hospitals, Houston (Surgery)	
DEBORAH JEAN LIGHTNER	Williamsville, N.Y.
New Britain General Hospital, New Britain, Conn. (Surgery)	
JOHN EDWARD LINN	Chicago, Ill.
Carraway Methodist Hospital, Birmingham, Ala. (Flexible)	
JOHN GARTH LONG	laeger, W.Va.
Medical Center—South Carolina, Charleston (Pediatrics)	
REX MONROE McCALLUM	Henderson, Tenn.
Duke University Medical Center, Durham, N.C. (Internal Medicine)	
GEORGE LYTTLETON MILLER III	Germantown, Tenn.
Yale-New Haven Medical Center, New Haven, Conn. (Internal Medicine)	
ROBERT HORACE MILLER III	Nashville, Tenn.
Vanderbilt University Affiliated Hospitals (Surgery)	

- MARK ROGER MITCHELL
Vanderbilt University Affiliated Hospitals (Radiology, Diagnostic) Vista, Calif.
- EDWARD LAWRENCE MORGAN
Vanderbilt University Affiliated Hospitals (Surgery) Shreveport, La.
- JEFFREY SCOTT MORGAN
Medical College—Wisconsin, Milwaukee (Pediatrics) Lake Forest, Ill.
- GARY STEPHEN NACE
Vanderbilt University Affiliated Hospitals (Internal Medicine) Pompano Beach, Fla.
- LEE SCOTT NEWMAN
Grady Memorial Hospital, Atlanta, Ga. (Internal Medicine) Westfield, N.J.
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Mercy Hospital, San Diego, Calif. (Flexible) Jacksonville, Fla.
- RALPH DAVISON PEELER III
Medical Center—Georgia, Columbus (Family Practice) Memphis, Tenn.
- CHARLES WRIGHT PGINSON
University of Oregon Medical Center, Portland (Surgery) Boulder, Colo.
- MARK ALLAN PIPER
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- CECILY JOAN POREE
Charity Hospital (Tulane) New Orleans, La. (Pediatrics) New Orleans, La.
- JACQUELINE LEE RODIER
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- CAROL JEAN ROGERS
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- DAVID BRUCE ROSS
Vanderbilt University Affiliated Hospitals (Surgery) Saint Louis, Mo.
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- JANA LEIGH SULZER
Case-Western Reserve University Hospital, Cleveland, Ohio (Radiology, Diagnostic) Tampa, Fla.
- LORNA CATHERINE SZCZUKOWSKI
Grady Memorial Hospital, Atlanta, Ga. (Internal Medicine) Chattanooga, Tenn.
- ROBERT VICTOR TAUXE
University of Washington Medical Center, Seattle (Internal Medicine) Rochester, Minn.
- JOHN EDWARD TERWILLEGER
Naval Regional Medical Center, Portsmouth, Va. (Pediatrics) Sanford, Fla.
- RON HAYMOND TILFORD
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- CURTIS GREEN TRIBBLE
University of Virginia Medical Center, Charlottesville (Surgery) Columbia, S.C.
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- LAUREL-ROSE VON HOFFMANN-CURZI
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- JOHN MARCUS WHARTON
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- DARRELL PETER WILLIAMS
University of Kentucky Medical Center, Lexington (Flexible) Colby, Kans.

MARK RICHARD WINTERS

Pittsburgh, Pa.

Medical College of Virginia Affiliated Hospitals, Virginia Beach (Family Practice)

ROBERT HAROLD WISE, JR.

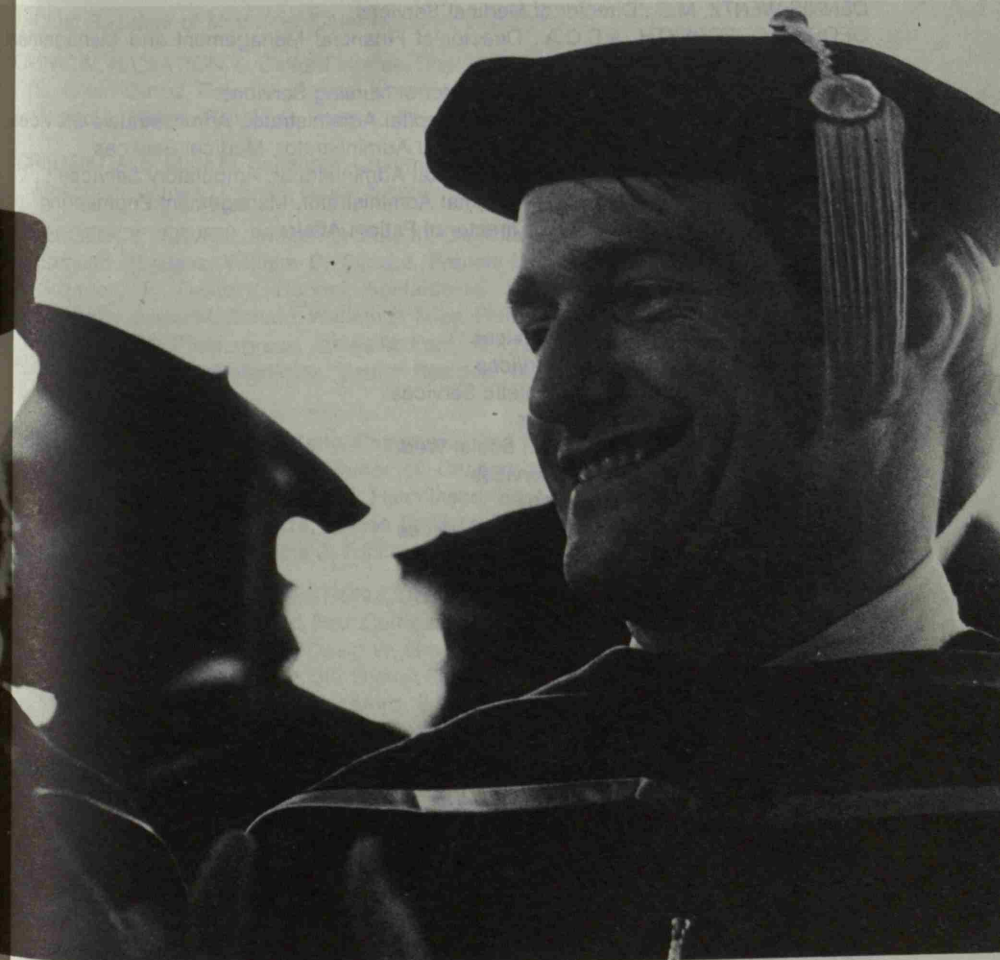
Dothan, Ala.

University of Alabama Medical Center, Birmingham (Internal Medicine)

JOHN LELAND JOSEPH WOLFORD, JR.

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University of Alabama Medical Center, Birmingham (Internal Medicine)



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Gerald M. Fenichel, *Chief*

ADULT NEUROLOGY

Gary Duncan, *Chief*

NEUROMUSCULAR DISEASE

Gerald M. Fenichel, *Chief*

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Allen Killam

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Arthur L. Brooks, *Chief of Clinic*

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Harry L. Greene, *Chief*

PEDIATRIC HEMATOLOGY ONCOLOGY

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ONCOLOGY

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THORACIC SURGERY

Harvey W. Bender, Jr., *Chief*

UROLOGICAL SURGERY

Robert K. Rhamy, *Chief*

VASCULAR SURGERY

Richard H. Dean, *Chief*

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BRADLEY E. SMITH, Anesthesiologist-in-Chief

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M. Lawrence Berman *Active*

Geoffrey Berry *Visiting*

Michael Bertz *Active*

Walter U. Brown *Active*

Thomas Caldwell *Associate*

Charles G. Cannon, Jr. *Visiting*

David A. Chadwick *Visiting*

Pong M. Chang *Active*

Barry C. Corke *Active*

Yilmaz Eryasa *Associate*

James Foster *Visiting*

Erol Genca *Associate*

Krishna Ghosh *Active*

Robert Handte *Active*

Ramon S. Harris *Active*

Jayakumar Reddy Kambam *Active*

Joanne L. Linn *Active*

Peter Margand *Active*

James Menzie *Visiting*

Winston C.-V. Parris *Active*

James M. Phythyon *Active*

Charles B. Pittinger *Consulting*

(on leave)

Charles W. Quimby, Jr. *Active*

James Ramsey *Visiting*

Paula F. Conaway Sandidge *Active*

Lawrence G. Schull *Associate*

Rita Siler *Active*

Geeta Vasudeo *Active*

Margaret Wood *Active*

Medicine

GRANT W. LIDDLE, Physician-in-Chief

Naji N. Abou-Mourad *Visiting*

Crawford W. Adams *Active*

Robert H. Alford *Active*

Benjamin J. Alper *Associate*

Edward E. Anderson *Visiting*

H. R. Anderson *Consulting*

James Erwin Anderson, Jr. *Visiting*

George R. Avant *Active*

Mark S. Averbuch *Visiting*

Paul H. Barnett *Visiting*

Jack M. Batson *Visiting*

F. Tremaine Billings *Emeritus*

James D. Bomboy, Jr. *Active*

Robert A. Branch *Active*

Kenneth L. Brigham *Active*

Thomas E. Brittingham *Active*

Robert N. Buchanan *Emeritus*

W. Barton Campbell *Visiting*

John E. Chapman *Active*

Alan G. Cohen *Active*

Robert Seth Cooper *Active*

Orrie A. Couch, Jr. *Visiting*

Frederic E. Cowden *Active*

Oscar B. Crofford, Jr. *Active*

Bruce Davis *Active*

Thomas J. Davis *Visiting*

Roger M. Des Prez *Active*

John H. Dixon, Jr. *Consulting*

Alan C. Dopp *Active*

Robert C. Dunkerley, Jr. *Visiting*

G. Dewey Dunn *Active*

Roy O. Elam III *Visiting*

Melvin L. Elson *Visiting*

Irwin B. Eskin *Associate*

William Ewers *Active*

Philip W. Felts *Active*

Stephen K. Felts *Visiting*

J. Vance Fentress *Visiting*

James P. Fields *Active*

Ronald Fletcher *Consulting*

John M. Flexner *Active*

Howard R. Foreman *Visiting*

Richard France *Emeritus*

Gottlieb C. Friesinger II *Active*

Thomas F. Frist *Emeritus*

Richard Lee Gibson *Active*

H. Earl Ginn *Active*

Francis W. Gluck, Jr. *Active*

Fred Goldner, Jr. *Active*

- Robert A. Goodwin *Active*
Alan L. Graber *Active*
Stanley E. Graber *Active*
Frank Anthony Greco *Active*
Clark R. Gregg *Active*
David W. Gregory *Active*
James P. Gregory *Active*
John Hooper Griscom *Active*
Laurence A. Grossman *Visiting*
Gerald Halprin *Visiting*
Thomas B. Haltom *Visiting*
James R. Hamilton *Associate*
Kenneth Hande *Active*
Robert W. Harrison *Active*
William E. Harston *Active*
William B. Harwell, Jr. *Active*
James B. Haynes, Jr. *Visiting*
James H. Haynes *Visiting*
H. Campbell Haynie *Visiting*
Craig R. Heim *Active*
Hugh D. Holliday *Visiting*
John W. Hollifield *Active*
Robert M. Hollister *Associate*
Mark Houston *Active*
Joseph W. Huston *Active*
David E. Jenkins *Active*
James T. John, Jr. *Visiting*
Hollis E. Johnson *Emeritus*
H. Keith Johnson *Active*
John S. Johnson *Visiting*
Allen B. Kaiser *Active*
Herman J. Kaplan *Active*
Peter R. Kaplan *Active*
Lloyd E. King, Jr. *Active*
John P. Kinnard, Jr. *Associate*
David S. Knapp *Visiting*
Otto Morse Kochtitsky *Visiting*
Sanford B. Krantz *Active*
Marvin W. Kronenberg *Active*
William W. Lacy *Active*
Lewis B. Lefkowitz, Jr. *Active*
John Leonard *Active*
John E. Liljenquist *Active*
Robert C. MacDonell, Jr. *Active*
George V. Mann *Active*
Samuel R. Marney, Jr. *Active*
Ralph W. Massie *Active*
Zell A. McGee *Active*
L. Clifford McKee *Active*
Thurman D. McKinney *Active*
George W. McLean *Active*
Alexander C. McLeod *Active*
Clifton K. Meador *Active*
Cullen R. Merritt *Visiting*
Alvin H. Meyer *Associate*
Michael E. Miller *Active*
Fernando T. Miranda *Consulting*
Carl E. Mitchell *Active*
Douglas P. Mitchell *Visiting*
David T. Murray *Visiting*
John Nadeau *Active*
John A. Oates *Active*
Robert K. Oldham *Active*
David N. Orth *Active*
Harry L. Page *Visiting*
Thomas F. Paine, Jr. *Active*
Bernard J. Pass *Associate*
Thomas Guv Pennington *Active*
James M. Perry, Jr. *Active*
R. Kirby Primm *Active*
Robert W. Quinn *Active*
David Rabin *Active*
William B. Ralph, Jr. *Associate*
Lloyd H. Ramsey *Active*
Frank M. Rembert *Visiting*
Ronald L. Richardson *Active*
L. Jackson Roberts II *Active*
David H. Robertson, Jr. *Active*
Rose Marie Stevens Robertson *Active*
Howard E. Rosen *Active*
Marvin J. Rosenblum *Visiting*
Sol A. Rosenblum *Visiting*
William D. Salmon, Jr. *Active*
Howard Lee Salyer *Associate*
William Schaffner *Active*
Steven Schenker *Active*
Stephen Schillig *Active*
Richard Schneider *Active*
Herbert J. Schulman *Visiting*
John Schweikert *Visiting*
Addison B. Scoville, Jr. *Visiting*
John S. Sergent *Active*

Harrison J. Shull *Visiting*
 Harrison J. Shull, Jr. *Active*
 Lucien C. Simpson *Associate*
 Bruce Sinclair-Smith *Active*
 Paul E. Slaton, Jr. *Active*
 Murray W. Smith *Active*
 Raphael Smith *Active*
 James R. Snapper *Active*
 James D. Snell, Jr. *Active*
 Kermit V. Speeg, Jr. *Active*
 W. Anderson Spickard, Jr. *Active*
 Richard Steckley *Active*
 Richard Stein *Active*
 William J. Stone *Active*
 W. David Strayhorn III *Active*
 Paul R. Stumb *Associate*
 Craig R. Sussman *Active*
 Edward L. Tarpley *Consulting*
 Paul E. Teschan *Active*
 Clarence S. Thomas *Emeritus*
 James N. Thomasson *Visiting*
 Charles B. Thorne *Active*
 Aubrey Lee Tucker, Jr. *Visiting*
 W. Carter Williams, Jr. *Visiting*
 Frederick A. Wilson *Active*
 James P. Wilson *Visiting*
 Eugene Winter *Visiting*
 Lawrence K. Wolfe *Associate*
 Steven N. Wolff *Active*
 Alastair Wood *Active*
 John R. Woods *Active*
 Raymond Woosley *Active*
 Robert J. Workman *Active*
 John Lanier Wyatt *Visiting*

Dermatology

ROBERT N. BUCHANAN, Emeritus Dermatologist-in-Chief
 Melvin L. Elson *Associate*
 James R. Hamilton *Associate*
 William B. Harwell, Jr. *Active*
 Lloyd E. King, Jr. *Active*
 Alvin H. Meyer, Jr. *Associate*
 Bernard J. Pass *Associate*
 Bruce P'Pool, Jr. *Associate*
 Howard Lee Salyer *Associate*
 Frank G. Witherspoon *Visiting*

Neurology

GERALD M. FENICHEL, Neurologist-in-Chief
 William M. Clark *Active*
 Gary Duncan *Active*
 Anthony W. Kilroy *Active*
 Howard S. Kirshner *Active*
 Georgia D. Montouris *Active*
 Russell D. Rollinson *Active*
 Bertram E. Sproffkin *Active*
 John Sloan Warner *Consulting*

Obstetrics and Gynecology

LONNIE S. BURNETT, Obstetrician & Gynecologist-in-Chief
 Larry T. Arnold *Visiting*
 Harry Baer *Visiting*
 Donald R. Barnett *Active*
 D. Scott Bayer *Visiting*
 Russell T. Birmingham *Visiting*
 Michael Robert Bishop *Active*
 Frank H. Boehm *Active*
 James M. Brakefield *Visiting*
 Roger B. Burrus *Visiting*
 Guillermo Cadena *Active*
 Benjamin H. Caldwell, Jr. *Visiting*
 Robert L. Chalfant *Visiting*
 Jill F. Chambers *Active*
 Jackson D. Cothren *Associate*

George B. Crafton *Visiting*
 Angus M. G. Crook *Active*
 James F. Daniell *Active*
 Richard J. Davis *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 Gregory *Associate*
 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*
 Allen P. Killam *Active*
 Ralph R. Kling, Jr. *Visiting*
 Horace T. Lavelly, Jr. *Visiting*
 H. Newton Lovvorn, Jr. *Active*

William D. Martin *Visiting*
 James B. Millis *Active*
 Marcia A. Montgomery *Active*
 John W. O'Donnell III *Active*
 Roy W. Parker *Visiting*
 Robert C. Patterson, Jr. *Visiting*
 C. Gordon Peerman, Jr. *Visiting*
 Richard E. Presley *Active*
 Ron N. Rice *Visiting*
 Mitchell K. Sanders *Active*
 Gilmore M. Sanes, Jr. *Visiting*
 Houston Sarratt *Active*
 William D. Sumpter, Jr. *Visiting*
 Robert H. Tosh *Visiting*
 Anthony E. Trabue *Active*
 John Edward Vanhooydonk *Active*
 Thomas F. Warder *Visiting*
 Kenneth F. Whitaker *Visiting*
 Norman E. Witthauer *Visiting*
 Carl Zimmerman *Visiting*

Ophthalmology

JAMES H. ELLIOTT, Ophthalmologist-in-Chief

E. Dale Batchelor *Visiting*
 John B. Bond III *Active*
 George W. Bounds, Jr. *Active*
 James E. Burnes *Visiting*
 Abraham Pacha Cheij *Active*
 Richard T. Coppoletti *Visiting*
 Roy C. Ezell *Visiting*
 Wallace H. Faulk, Jr. *Active*
 Stephen S. Feman *Active*
 Walter W. Frey *Active*
 Robert R. Henderson *Visiting*
 Donald J. Jackson *Visiting*
 G. Allen Lawrence *Active*
 James P. Loden *Visiting*
 Reginald Lowe, Jr. *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*
 Deborah Ruark *Active*
 Charlie R. Smith *Visiting*
 Joseph W. Scobey *Visiting*
 Willard O. Tirrill III *Visiting*
 Gates Wayburn, Jr. *Visiting*
 Joel M. Weinstein *Active*
 Ralph E. Wesley *Active*

Orthopedics and Rehabilitation

PAUL P. GRIFFIN, Orthopedic Surgeon-in-Chief

Arthur Leroy Brooks *Active*
 John C. Brothers *Active*

John Bruno III
 Joe G. Burd *Active*

George K. Carpenter, Jr. <i>Visiting</i>	Lawrence P. Laughlin <i>Visiting</i>
Wesley L. Coker <i>Visiting</i>	Thomas J. Limbird <i>Visiting</i>
Mark Doyne <i>Active</i>	A. Brant Lipscomb <i>Active</i>
Don L. Eyler <i>Active</i>	John C. McInnis <i>Associate</i>
Harold A. Ferguson <i>Visiting</i>	Michael A. Milek <i>Active</i>
S. Benjamin Fowler <i>Visiting</i>	Andrew H. Miller <i>Active</i>
Donald L. Gaines <i>Active</i>	Charles G. Norton <i>Active</i>
William M. Gavigan <i>Associate</i>	Thomas F. Parrish <i>Active</i>
David W. Gaw <i>Visiting</i>	Eugene M. Regen, Jr. <i>Active</i>
Neil Edward Green <i>Active</i>	Barrett F. Rosen <i>Active</i>
Paul P. Griffin <i>Active</i>	Ronald E. Rosenthal <i>Active</i>
Arnold Haber, Jr. <i>Visiting</i>	Robert V. Russell <i>Active</i>
Charles M. Hamilton <i>Active</i>	William G. Sale III <i>Visiting</i>
Jerry Cheek Hunt <i>Consulting</i>	Norman L. Sims <i>Associate</i>
Robert K. Johnson <i>Active</i>	Robert B. Synder <i>Associate</i>
David S. Jones <i>Visiting</i>	Robert E. Stein <i>Active</i>
Frank E. Jones <i>Active</i>	E. Dewey Thomas <i>Active</i>
J. Monroe Laborde <i>Active</i>	John M. Wampler <i>Active</i>
John W. Lamb <i>Visiting</i>	Walter Wheelhouse <i>Visiting</i>

Pathology

WILLIAM H. HARTMANN, Pathologist-in-Chief

Robert D. Collins <i>Active</i>	Virgil S. LeQuire <i>Active</i>
Anh H. Dao <i>Active</i>	Fred V. Lucas <i>Active</i>
John F. Edland <i>Active</i>	Lilia D. Mauricio <i>Visiting</i>
Rufus Jack Freeman <i>Visiting</i>	William M. Mitchell <i>Active</i>
William A. Gardner <i>Active</i>	Martin G. Netsky <i>Active</i>
Alan D. Glick <i>Active</i>	David L. Page <i>Active</i>
Fred Gorstein <i>Active</i>	Adelisa L. Panlilio <i>Active</i>
Susan A. Halter <i>Active</i>	Lloyd D. Richardson <i>Active</i>
Jacek J. Hawiger <i>Active</i>	Fred W. Ryden <i>Visiting</i>
Robert G. Horn <i>Active</i>	John L. Shapiro <i>Active</i>
Aubrey J. Hough, Jr. <i>Active</i>	Charles W. Stratton <i>Active</i>
Jerry K. Humphreys <i>Visiting</i>	John Brown Thomison <i>Visiting</i>
Richard L. Johnson <i>Active</i>	Frank C. Womack <i>Visiting</i>
A. G. Kasselberg <i>Active</i>	

Pediatrics

DAVID T. KARZON, Pediatrician-in-Chief

William A. Altemeier III <i>Active</i>	Robert C. Boerth <i>Active</i>
Luther A. Beazley <i>Active</i>	Robert C. Bone <i>Associate</i>
Eugene L. Bishop, Jr. <i>Active</i>	Robert J. Boucek, Jr. <i>Active</i>
Lindsay K. Bishop <i>Active</i>	James A. Breitwieser <i>Active</i>
Carla Bloedel <i>Active</i>	Ian M. Burr <i>Active</i>

- Robert Edward Burr *Active*
 Sam W. Carney, Jr. *Active*
 Norman M. Cassell *Active*
 Eric Martin Chazen *Active*
 Robert B. Cotton *Active*
 William M. Doak *Active*
 William D. Donald *Active*
 Ray L. Dubuisson *Active*
 John P. Fields *Active*
 William F. Fleet *Active*
 Fayez K. Ghishan *Active*
 Paul C. W. Gomez *Active*
 Thomas P. Graham, Jr. *Active*
 Roland W. Gray *Active*
 Ralph Greenbaum *Active*
 John W. Greene *Active*
 Harry L. Greene *Active*
 Douglas C. Henry *Visiting*
 Charles Hirshberg *Active*
 Lowry D. Kirby *Visiting*
 Leonard J. Koenig *Active*
 Joseph F. Lentz *Active*
 William R. Long *Active*
 Rodney A. Lorenz *Active*
 John Lukens *Active*
 Robert E. Mallard *Active*
 George C. Martin *Active*
 Susan J. McLean *Active*
 David M. Moroney *Active*
 Joe Moss, Jr. *Active*
 Dewey G. Nemeč *Active*
 Susan M. O'Connor *Active*
 Ellen C. Perrin *Active*
 James M. Perrin *Active*
 James S. Price *Active*
 Karen H. Rhea *Active*
 Fred C. Robinson *Visiting*
 Jorge Rojas *Active*
 James S. Roloff *Active*
 Dan S. Sanders, Jr. *Active*
 Charles Gordon Rennick Sell *Active*
 Sarah H. Sell *Active*
 Elbert C. Shackelford, Jr. *Consulting*
 Jayant P. Shenai *Active*
 William T. Slonecker *Visiting*
 Alfred Ephraim Slonim *Active*
 Mildred Stahlman *Active*
 Joseph Steranka *Active*
 C. A. Stilwell *Active*
 Joe M. Strayhorn *Active*
 Hakan Sundell *Active*
 Richard P. Taber *Active*
 David D. Thombs *Active*
 Dorothy J. Turner *Consulting*
 Robert L. VanderVoort, Jr. *Active*
 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*
 Thomas A. Ban *Active*
 David Barton *Active*
 Robert F. Baxter *Active*
 Otto Billig *Visiting*
 Henry B. Brackin, Jr. *Visiting*
 Thomas W. Campbell *Active*
 Pietro Castelnuovo-Tedesco *Active*
 Charles Corbin, Jr. *Visiting*
 H. James Crecraft *Visiting*
 Miles K. Crowder *Active*
 J. Emmett Dozier, Jr. *Active*
 Joseph Fishbein *Active*
 Barbara A. Fitzgerald *Active*
 Charles V. Ford *Active*
 Fay M. Gaskins *Active*
 Edmon L. Green *Visiting*

James H. Hamilton	<i>Active</i>	Pauline L. Rabin	<i>Active</i>
Frederick T. Horton	<i>Active</i>	Mohamed A. Ragheb	<i>Active</i>
Robert C. Jamieson	<i>Visiting</i>	Robert M. Reed	<i>Visiting</i>
Harold W. Jordan	<i>Active</i>	Robert N. Reynolds	<i>Visiting</i>
William D. Kenner	<i>Active</i>	Alvin B. Rosenbloom	<i>Active</i>
Michael J. Keyes	<i>Active</i>	William F. Sheridan, Jr.	<i>Associate</i>
Ronald F. Kourany	<i>Active</i>	Charles B. Smith	<i>Visiting</i>
Kent Kyger	<i>Visiting</i>	Frank W. Stevens	<i>Visiting</i>
Thomas P. Logan	<i>Active</i>	Frank W. Stevens, Jr.	<i>Visiting</i>
Joseph P. McEvoy	<i>Active</i>	C. Richard Treadway	<i>Active</i>
James B. McGehee	<i>Visiting</i>	Charles E. Wells	<i>Active</i>
Embry A. McKee	<i>Active</i>	Jane R. Weinberg	<i>Active</i>
Earl Ninow	<i>Active</i>	Dennis C. Workman	<i>Active</i>
William M. Petrie	<i>Active</i>		

Psychologists

C. Denton Buchanan	<i>Allied</i>	Howard B. Roback	<i>Allied</i>
Susan Lewis	<i>Allied</i>	Warren W. Webb	<i>Allied</i>

Radiology

A. EVERETTE JAMES, JR., Radiologist-in-Chief			
Joseph H. Allen, Jr.	<i>Active</i>	Jeremy J. Kaye	<i>Active</i>
Robert A. Battino	<i>Active</i>	Sandra G. Kirchner	<i>Active</i>
John H. Beveridge	<i>Visiting</i>	Robert J. Linn	<i>Associate</i>
Marion G. Bolin	<i>Active</i>	James Richard Moyers	<i>Associate</i>
Mark L. Born	<i>Active</i>	John A. Molin	<i>Active</i>
A. Bertrand Brill	<i>Active</i>	Carlos A. Muhletaler	<i>Active</i>
Francisco Correa-Paz	<i>Active</i>	Ronald E. Overfield	<i>Associate</i>
Craig Coulam	<i>Active</i>	Richard P. Ownbey	<i>Associate</i>
Thomas R. Duncan	<i>Consulting</i>	C. Leon Partain	<i>Active</i>
James Gerlock, Jr.	<i>Active</i>	Henry P. Pendergrass	<i>Active</i>
Clifton E. Greer, Jr.	<i>Active</i>	Thomas A. Powers	<i>Active</i>
Kenneth L. Haile, Jr.	<i>Active</i>	F. David Rollo	<i>Active</i>
William M. Hamilton	<i>Visiting</i>	Samuel Benton Rutledge	<i>Active</i>
Richard M. Heller, Jr.	<i>Active</i>	Clyde W. Smith	<i>Active</i>
Minyard D. Ingram	<i>Active</i>	Steven L. Stroup	<i>Active</i>
Howard Jolles	<i>Active</i>	John M. Tanner	<i>Visiting</i>
Joseph McK. Ivie	<i>Visiting</i>	Juan J. Touya, Jr.	<i>Active</i>

Surgical Sciences

Surgery

H. WILLIAM SCOTT, JR., Surgeon-in-Chief			
R. Benton Adkins, Jr.	<i>Active</i>	Terry Allen	<i>Visiting</i>

- Edmund W. Benz *Active*
 Stanley Bernard *Active*
 Robert L. Bomar, Jr. *Consulting*
 Robert C. Bone *Active*
 Cloyce F. Bradley *Active*
 Benjamin F. Byrd, Jr. *Active*
 Kenneth L. Classen *Active*
 Joseph M. Crane *Active*
 Paul S. Crane *Active*
 W. Andrew Dale *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*
 Sam Y. Garrett *Visiting*
 Carl N. Gessler *Active*
 Walter G. Gobbel, Jr. *Active*
 Herschel A. Graves, Jr. *Active*
 Roy G. Hammonds *Active*
 J. Lynwood Herrington, Jr. *Active*
 George W. Holcomb, Jr. *Active*
 Robert W. Ikard *Active*
 J. Kenneth Jacobs *Active*
 James P. Lester *Active*
 Malcolm R. Lewis *Active*
 Conn Michael McConnell *Associate*
 M. Charles McMurray *Visiting*
 Barton McSwain *Emeritus*
 Francis Michael Minch *Visiting*
 Joe M. Miller *Visiting*
 Joseph L. Mulheren, Jr. *Associate*
 I. Armistead Nelson *Associate*
 Oscar F. Noel *Visiting*
 Philip J. Noel *Active*
 James Patrick O'Leary *Active*
 James A. O'Neill, Jr. *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*
 H. William Scott, Jr. *Active*
 Harrison H. Shoulders, Jr. *Visiting*
 Bruce M. Smith *Active*
 Marion B. Tallent, Jr. *Active*
 Richard B. Terry *Visiting*
 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*
 Frank H. DePierri, Jr. *Visiting*
 Paul D. Elcan *Visiting*
 S. Julian Gibbs *Active*
 Barnett J. Hall *Visiting*
 William C. King *Visiting*
 Fred M. Medwedeff *Visiting*
 Jack A. Tyson *Consulting*
 Diane G. Weisberg-Posnick *Active*

Oral Surgery

- H. DAVID HALL, Oral Surgeon-in-Chief
 Samuel O. Banks, Jr. *Visiting*
 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*
 Jeffrey D. Stone *Active*

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 *Visiting*

Richard W. Hanckel *Active*

Perry F. Harris *Visiting*

Daniel R. Hightower *Active*

C. Gary Jackson *Consulting*

William G. Kennon, Jr. *Active*

Gale W. Miller *Consulting*

Robert C. Owen *Active*

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*

Charles W. MacMillan *Active*

James Madden, Jr. *Active*

Takis Patikas *Active*

Greer Ricketson *Active*

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*

Phillip P. Brown *Active*

George Burrus *Active*

Rollin A. Daniel, Jr. *Active*

Walter L. Diveley *Consulting*

William H. Edwards *Active*

Walter G. Gobbel, Jr. *Active*

John William Hammon, Jr. *Active*

Robert A. Hardin *Associate*

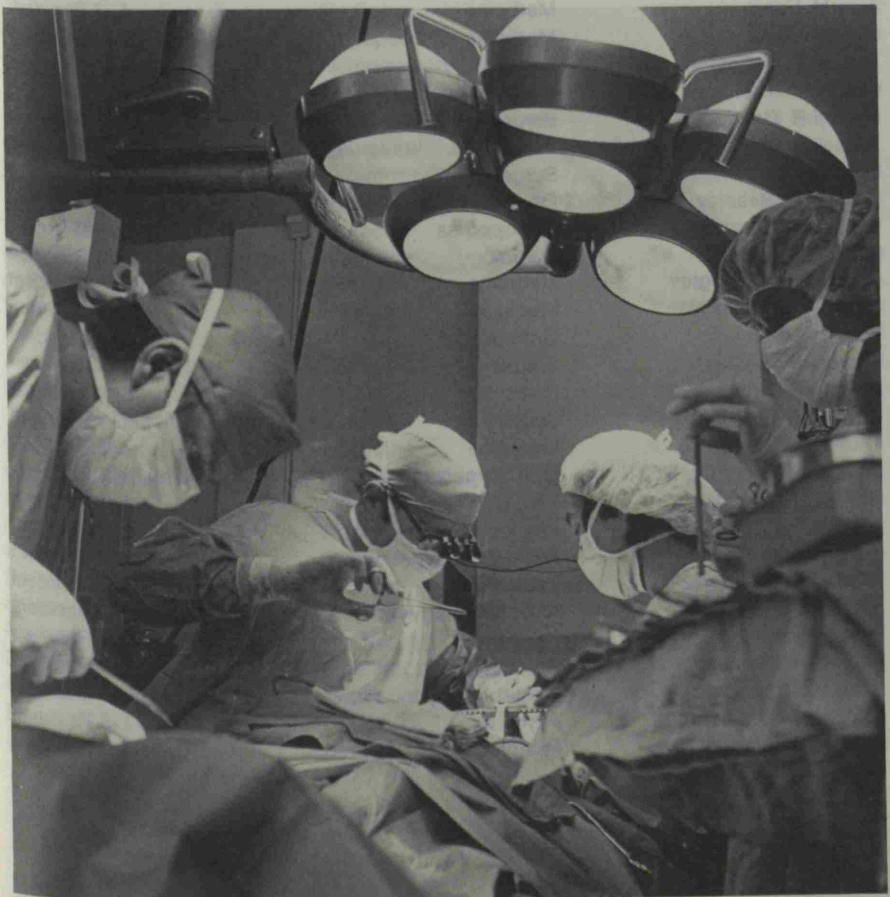
Jackson Harris *Visiting*
J. Kenneth Jacobs *Active*
Robert McCracken *Visiting*
Richard L. Prager *Active*
Robert E. Richie *Active*
Douglas H. Riddell *Active*

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
Robert B. Barnett *Consulting*
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 *Visiting*
Charles E. Haines, Jr. *Associate*

Albert P. Isenhour *Associate*
Frederick K. Kirchner *Active*
Robert E. McClellan *Associate*
David H. Morgan *Active*
Tom E. Nesbitt *Associate*
Phillip P. Porch, Jr. *Associate*
Robert A. Sewell *Visiting*
Michael J. Spalding *Visiting*
J. Douglass Trapp *Visiting*
John M. Tudor *Visiting*
Bruce I. Turner *Active*



House Staff 1980-81



Figures in the right-hand column indicate the current level of the residency.

Richard B. Abriss	Surgery	L-2 Resident
Peter A. Accetta	Pathology	L-2 Resident
Lori M. Adelson	Psychiatry	L-3 Resident
Richard C. Agnew	Thoracic Surgery	L-6 Resident
Bennie B. Alderdice, D.M.D.	Oral Surgery	L-2 Resident
Stephen L. Aleshire	Pathology	L-2 Resident
Dave A. Alexander, Jr.	Orthopedics	L-5 Resident
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Index

- Academic program 35
Academic regulations 51
Administration, School of Medicine 11
Administration, Medical Affairs 9
Administration, University 10
Administration, Vanderbilt University Hospital 146
Admission 31
Advanced training and research 75
Advisers 51
Alpha Omega Alpha 59
Anatomy 80
Anesthesiology 81
Appalachian Student Health Coalition 45
Application procedure 32
Athletic facilities 64
- Basic sciences, certification in 52
Biochemistry 82
Biostatistics 118
Board, Medical Center 8
Board of Trust, University 6
Buckley Amendment 68
- Calendar 4
Campus security 64
Canby Robinson Society 25
Center for Health Services 45
Certification in basic sciences 52
Clinic, Staff Officers of 149
Committees 11
Committees, Hospital 147
Continuing education 75
Counseling Center 64
Course schedule 37
Courses of study 79
Curriculum tables 37
- Degree requirements 51
Degrees awarded 23
Dentistry 127
Dermatology 92
Directors of hospital services 149
- Education records 68
Employment for spouses 73
Endowed research chairs 76
Endowed research funds 78
- Examinations and promotions 52
Executive faculty 11
Extracurricular work 53
- Facilities of the School of Medicine 25
Fees 67
Fellowships 72
Fellows 141
Financial assistance 69
Financial information 67
Food services, University 62
Founder's Medal 59
- General information, the University and the City 22
- Health service 62
Hearing and Speech Sciences 84
History of the School of Medicine 23
Honor scholarships 69
Honor society 59
Honor System 51
Honors and awards 59
Hospital Committees 147
Hospital Medical Board 146
Hospital staff 152
Hospitalization insurance 63, 67
House staff, 1980-81 162
House staff training 75
Housing, University 61
Human Behavior 121
- Insurance, hospitalization 63, 67
Insurance, liability 53
Internship and residency training 75
- Joint M.D./Ph.D. program 47
Justin Potter medical scholarships 69
- Leave of absence 53
Lectureships 55
Liability insurance for students 53, 67
Library, Medical Center 27
Loans 72
- Major courses 35
Master of Science course work 76
M.D./Ph.D. program 47

- Medals and prizes 59
 Medical Administration 85
 Medical Center 24
 Medical College Admission Test 32
 Medicine 87
 Microbiology 96
 Microscopes, books, and equipment 67
 Minimum requirements for admission 31

 Nashville 29
 Nashville University Center 28
 National Board Examinations 51
 Neurology 97
 Neurosurgery 127

 Objectives, School of Medicine 21
 Obstetrics and Gynecology 99
 Ophthalmology 101
 Oral Surgery 128
 Orthopedics and Rehabilitation 103
 Otolaryngology 128

 Parking 65
 Pathology 105
 Pediatric Surgery 129
 Pediatrics 108
 Pharmacology 113
 Ph.D. course work 76
 Ph.D./M.D. program 47
 Physiology 115
 Plastic Surgery 129
 Postdoctoral courses 75
 Post-residency fellowships 76
 Preventive Medicine and Public Health 117
 Professional liability insurance 53, 65
 Psychiatry 119
 Psychological and Counseling Center 64

 Radiology and Radiological Sciences 122
 Register of students 132
 Regulations, academic 51
 Regulations, visiting students 33
 Requirements for admission 31
 Requirements for M.D. degree 51
 Research chairs, endowed 76
 Research funds, endowed 78
 Residency assignments 142
 Residency training 75

 Schedule of courses 37
 Scholarships 69, 71
 Security, campus 64
 Staff officers of Vanderbilt Clinic 149
 Staff, Intern and Resident 162
 Standing committees, School of Medicine 11
 Student Health Coalition 45
 Student Health Service 62
 Student hospitalization insurance plan 63, 67
 Student liability insurance 53, 67
 Students, Register of 132
 Surgery 125
 Surgical Sciences, Section of 125

 Thoracic and Cardiac Surgery 129
 Tuition and fees 67

 University, general information 22
 Urban Student Health Coalition 45
 Urology 130

 Vanderbilt Clinic staff officers 149
 Vehicles 64
 Visiting students 33

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