

The Bulletin of  
Vanderbilt University 1983-84

# Medical Center



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**THE BULLETIN OF VANDERBILT UNIVERSITY**  
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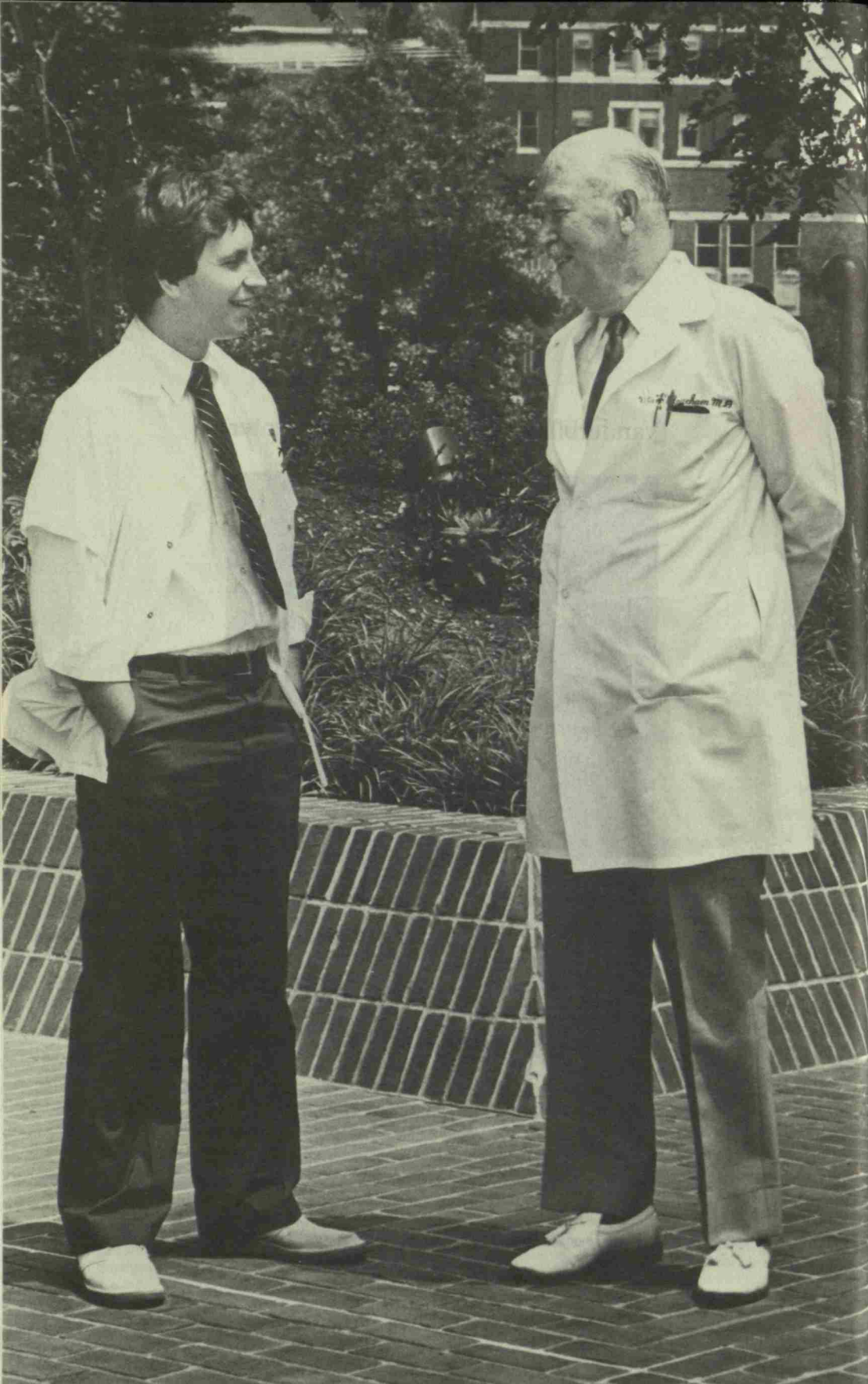
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Policies and procedures concerning non-curricular matters will be found in the *Student Handbook*, and policies concerning withdrawal for medical or emotional reasons in this bulletin under Student Health Services.

Vanderbilt University Medical Center







# The Medical Center



Vanderbilt  
University  
1983-84

Containing general information  
appointments and courses of study  
for the 1983-84 session  
corrected to 15 May 1983  
Nashville

## School of Medicine Calendar, 1983-84

### FALL SEMESTER 1983

Registration 3rd year / Monday 22 August  
Registration 2nd and 4th years / Tuesday 23 August  
Registration 1st year / Wednesday 24 and 25 August  
Classes begin 2nd and 4th years / Thursday 25 August  
Classes begin 1st year / Friday 26 August  
Medical School reunion / Friday 28 October and 29 October  
Homecoming / Saturday 29 October  
Thanksgiving holidays / Thursday 24 November to 27 November  
Examination period elective courses 1st and 2nd years / Monday 5 December to 9 December  
Examination period required courses 1st and 2nd years / Monday 12 December to 16 December  
Fall semester ends / Friday 16 December

### SPRING SEMESTER 1984

Spring semester begins / Tuesday 3 January  
Spring holidays 1st and 2nd years / Sunday 4 March to 11 March  
Spring holidays 4th year / Wednesday 14 March to 18 March  
Founder's Day Saturday 17 March  
Spring holidays 3rd year / Saturday 31 March to 8 April  
National Boards (Part II) 4th year / Tuesday 3 April to 4 April  
Instruction ends 1st, 2nd, and 4th year / Friday 27 April  
Examination period elective courses 1st and 2nd years / Monday 23 April to 27 April  
Examination period 1st and 2nd years / Monday 30 April to 4 May  
Commencement / Friday 11 May  
National Boards (Part 1) 2nd year / Tuesday 12 June to 13 June  
Instruction ends 3rd year / Friday 15 June  
Examination period 3rd year / Monday 18 June to 22 June

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# Vanderbilt University Board of Trust

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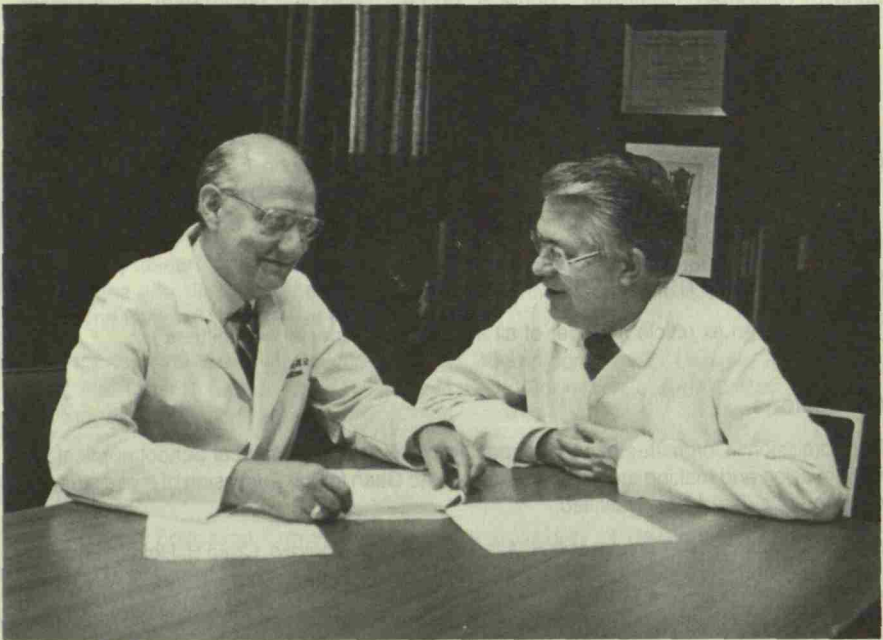
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## The Medical Center



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# School of Medicine



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

## 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.

Virgil S. LeQuire, *Chairman*. Joseph H. Allen, Jr., John G. Coniglio, Craig R. Heim, Sandra G. Kirchner, John Lukens, Arnold W. Malcolm, James Patrick O'Leary, David M. Regen, Richard M. Zaner.

*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.

Ian M. Burr, Alan D. Cherrington, John G. Coniglio, John H. Exton, John M. Flexner, John W. Hammon, Lubomir Hnilica, H. C. Meng, C. Leon Partain, Rose M. Stevens Robertson.

### Standing Policy Committees

These 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. Lubomir Hnilica, *Chairman*. Benjamin J. Danzo, Dixie W. Fredriksen, Alan D. Glick, Michael A. Haralson, Robert W. Harrison III, Alexander R. Lawton. FACULTY. John H. Exton, *Chairman*. Susan A. Halter, Kenneth R. Hande, Jeremy J. Kaye, Arnold W. Malcolm, Theodore Pincus

GOALS AND GOVERNANCE. C. Leon Partain, *Chairman*. Wolf-Dietrich Dettbarn, A. G. Kasselberg, Alexander C. McLeod, Samuel J.L. Pieper, James V. Staros.

HEALTH CARE. Rose M. Stevens Robertson, *Chairman*. Virginia D. Abernethy, Anthony W. Kilroy, Charlie R. Smith, Dennis K. Wentz.

HOUSE STAFF. John W. Hammon, Jr., *Chairman*. Stephen S. Entman, Craig R. Heim, Frederick K. Kirchner, Jr., Joanne L. Linn, Harold Smith.

MEDICAL EDUCATION. Alan D. Cherrington, *Chairman*. Jan Culbertson, George F. Gray, Thomas P. Logan, Jeanette J. Norden, James M. Perrin.

### 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*. Najj Abumrad, Alan D. Cherrington, John G. Coniglio, Richard H. Dean, Alexander R. Lawton, John H. Newman, David Robertson, Joseph C. Ross, William J. Stone. *Ex officio*: John Hash.

### Continuing Education

The Continuing Education Committee has the responsibility of developing policies and providing leadership, liaison, and recommendations regarding departmental and institutional programs of instruction designed for 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.

Dennis K. Wentz, *Chairman*. Harvey W. Bender, Jr., Frank H. Boehm, Arthur C. Fleischer, Thomas P. Graham, Jr., Marcus C. Houston, Tom E. Nesbitt, R. Kirby Primm, Ronald E. Rosenthal, Addison B. Scoville, Jr., Charles E. Wells. *Consultant*: R. B. Gaston. *Ex officio*: Daniel Buxbaum. *Staff*: Marilyn Short.

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### **Vice Chancellor's Committee for the Veterans Administration Medical Center**

The Vice Chancellor's Committee is the fundamental administrative unit for policy development and evaluation of educational and research programs at the affiliated Veterans Administration Medical Center. It is composed of senior faculty members of the School of Medicine and others who are associated with the Veterans Administration Medical Center. Vanderbilt members are appointed by the chief medical director of the Veterans Administration on nomination by the Vice Chancellor for Medical Affairs.

Roscoe R. Robinson, *Chairman*. John E. Chapman, Roger M. DesPrez, Larry E. Deters, James H. Elliott, Eugene W. Fowinkle, Walter G. Gobbel, Jr., William H. Hartmann, A. Everette James, Jr., Arnold W. Malcolm, Joseph C. Ross, John L. Sawyers, James D. Snell, Dan M. Spengler, Conrad Wagner, Dennis K. Wentz.

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

The Educational Programs and Student Affairs Committee is composed of students, faculty, and administration. It serves as a forum for exchange of views and continuing review of educational programs and policies 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*. Robert H. Alford, Richard M. Heller, Jr., Frederick K. Kirchner, Jeanette J. Norden. Clifton Meador, *Consultant*. *Student Representatives*: David W. Grambow, C. Gordon Peerman, Julie A. Remund, Barbara A. Schneider.

### **Faculty Promotions and Appointments**

The 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 faculty positions.

Virginia D. Abernethy, Oscar B. Crofford, Jr., Jack Davies, John H. Exton, Thomas P. Graham, Jr., William M. Mitchell, John L. Sawyers, Grant R. Wilkinson. *Ex officio*: Lloyd H. Ramsey.

### **Graduate Education**

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

Peter W. Reed, *Chairman*. Leon Cunningham, Charles F. Federspiel, Loren H. Hoffman, Virgil S. LeQuire, Sue A. Moyer, Jay Sanders, Thomas R. Soderling.

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

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*

John C. Masters, *Chairman*. Robert R. Appleson, Barbara E. Brown, Robert R. Ehman, Henry A. Goodstein, D. Wesley Grantham, Robert Hangel, Martin Katahn, Joseph S. Lappin, James L. Nash, Susan M. O'Connor, Arlene G. Owen, William A. Rushing, Barbara Strudler Wallston, one undergraduate student to be named.

### *Health Sciences Committee*

Bruce M. Smith, *Chairman*. Virginia T. Betts, Frank S. Bloch, Graham F. Carpenter, Barbara Grobstein Chazen, Kathryn M. Edwards, Frank Anthony Greco, Susan A. Halter, John H. Hash, Thurman Dwight McKinney, Perry M. Nicassio, C. Leon Partain, Shannon E. Perry, Mary Rolando, Sara E. Sedgwick, Conrad Wagner, Alastair J. J. Wood.

### **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.

John H. Exton, *Chairman*. Sidney P. Colowick, G. Rodman Davenport, Thomas M. Harris, Alexander R. Lawton, Virgil S. LeQuire, Lee E. Limbird, John A. Oates, James V. Staros, Oscar Touster. *Student Member*. Gary Strickland. *Ex officio*: Daniel M. Buxbaum, Philip W. Felts, Richard M. Scott.

### **Medical Center Library and Archives**

The Medical Center Library and Archives Committee advises and informs the library director on developments affecting the library and archives, and suggests and supports the response to these developments; it also recommends and reacts to changes in policy and procedure and helps the director obtain the necessary support for the operation and advancement of the library and archives.

David H. Robertson, Jr., *Chairman*. Helen Bigler, Charles V. Ford, Martha Goode, David Guy, Anthony W. Kilroy, R. Kirby Primm, Deborah Sue Storm. Three student members to be assigned. *Ex officio*: T. Mark Hodges, University Library Committee representative, University Archives Committee representative.

### **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, George F. Gray, Loren H. Hoffman, Marcus C. Houston, Ronald F. Kourany, L. Clifford McKee, M. Ann Melly, Thomas Guv Pennington, David M. Regen, Peter W. Reed, *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, Marcus C. Houston, Howard S. Kirshner, John M. Leonard, Thomas J. Limbird, John Lukens, Pauline L. Rabin, Bruce M. Smith. *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*. John D. Hainsworth, Anthony W. Kilroy, William M. Mitchell, John H. Newman. *Student Representatives*: Charles Leonard, Denise Raynor.

### 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 makes recommendations to the President on policies maintained by these facilities.

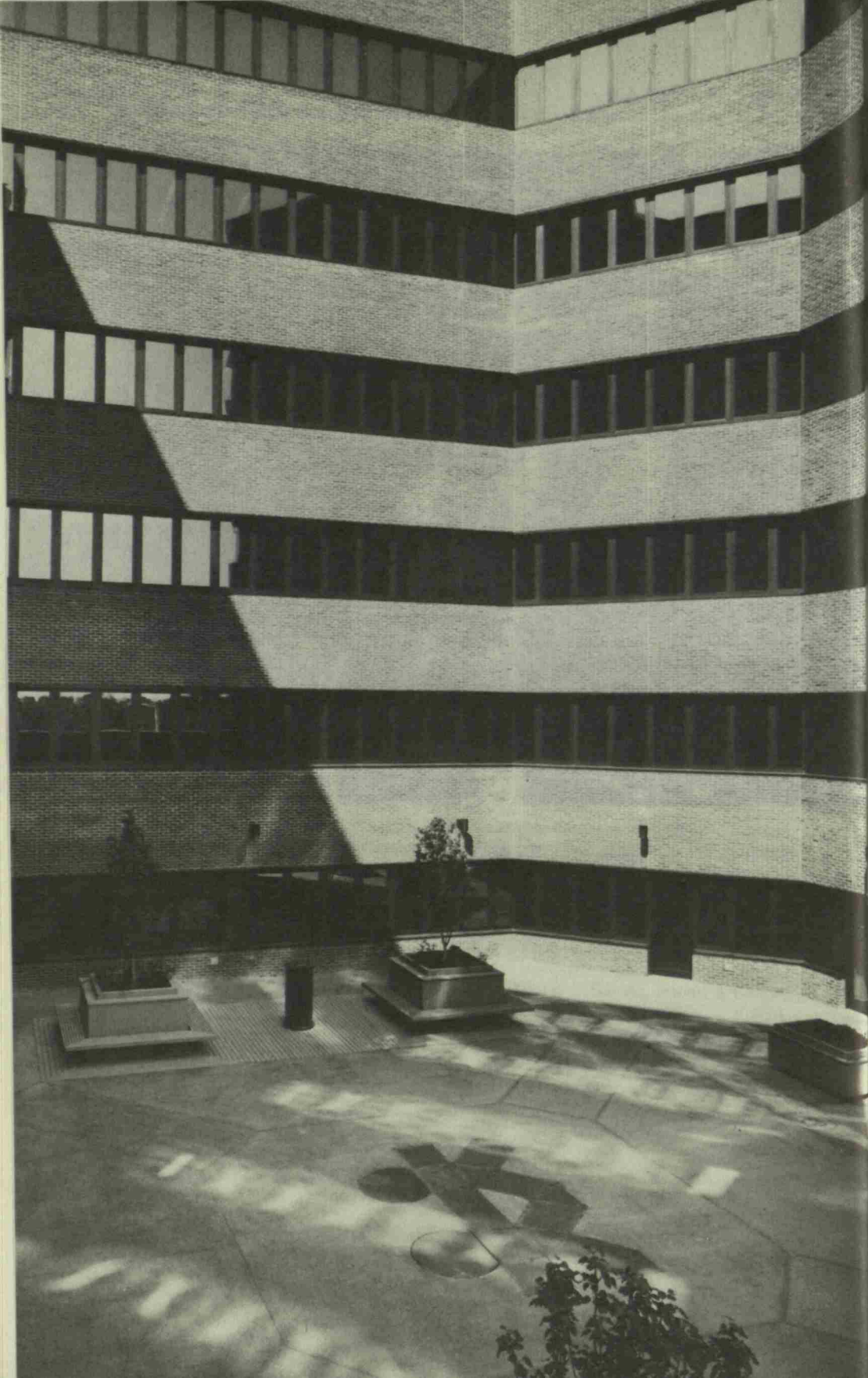
In reviewing and establishing such policies for animal care, the committee considers prevailing federal, state, and local laws and guidelines and their applicability to situations unique to the Vanderbilt experience. The committee also is concerned that its policies lead to standards which will enhance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

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

Hakan W. Sundell, *Chairman*. Robert R. Appleson, Thomas F. Barnes, Robert J. Barrett, Richard H. Dean, Joseph Diggs, Myron A. Holscher, Jon H. Kaas, Douglas A. Knight, James McKanna, John H. Newman, Richard H. Porter, D. Lewis Sly, Laken G. Warnock, John A. Waterman.







# The Medical Center

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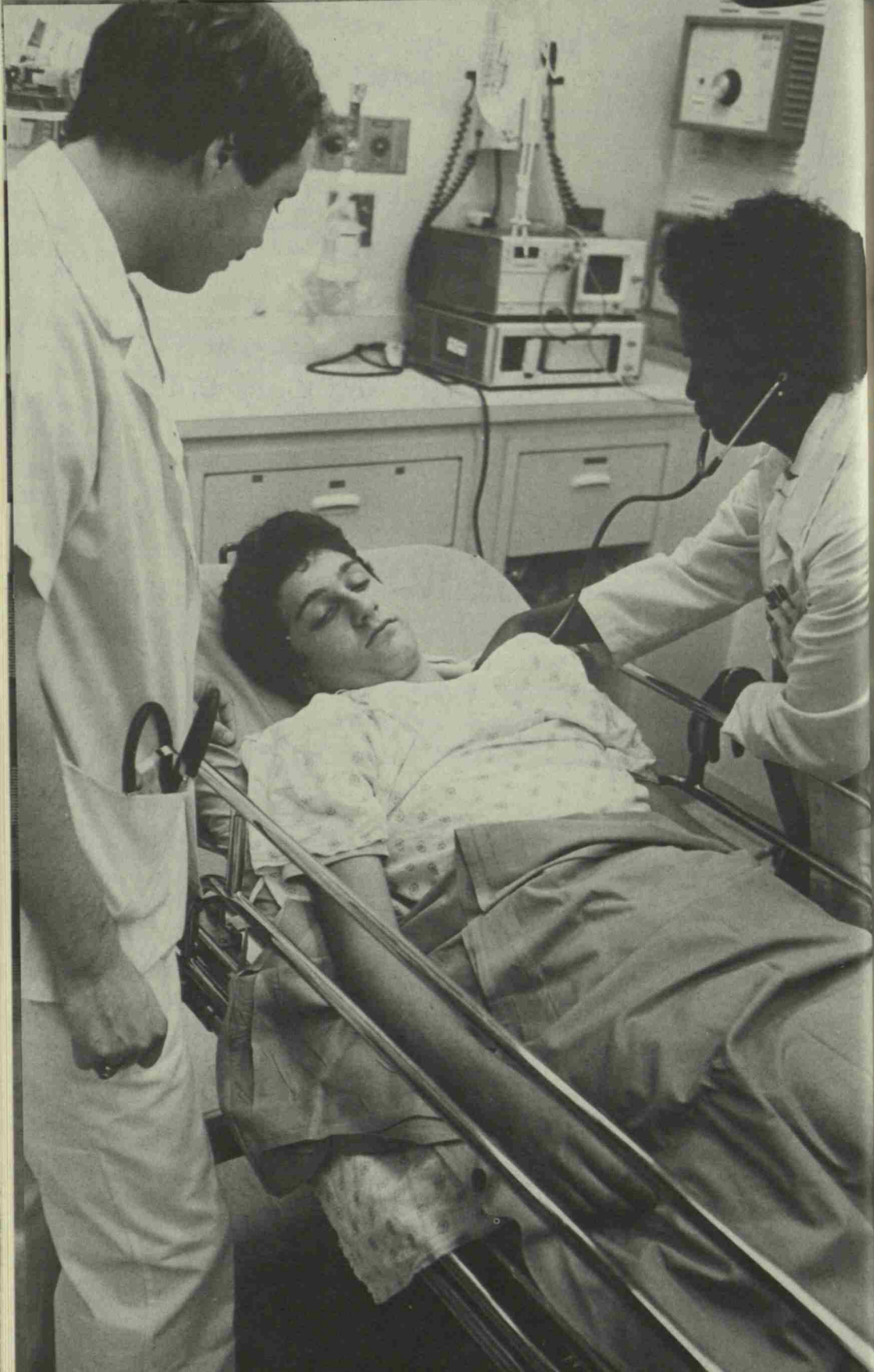
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Nashville and the Mid-South

The University and Its Schools



# The Medical Center



ANDERBILT University Medical Center has a three-fold mission—the education of health professionals, research in medical sciences, and patient care. This mission is carried out in two main operating units—the School of Medicine and the 561-bed Vanderbilt University Hospital, where patients receive exemplary care from physicians who are both creative teachers and scholars, instructing their students in healing sickness and unraveling its mysteries.

Members of the faculty maintain proficiency and establish working relationships in the professional community by participating directly in patient care. Their practice encourages the free flow of ideas between the School of Medicine and University Hospital and facilitates joint research activities. As a result, the Medical Center can undertake significant, innovative programs which set the standard for health care in the region.

Such outstanding service has established Vanderbilt's reputation as a referral center for the Southeast. Physicians from other states and foreign countries refer to Vanderbilt those patients whose health problems demand interdisciplinary skills and expert knowledge. Consequently, students in the School of Medicine encounter a wider range of diseases than they would likely see in many years of private practice.

The Medical Center furnishes support for University-wide programs in engineering, law, and nursing—and the new Ann Geddes Stahlman professorship in medical ethics opens up possibilities for interdisciplinary programs in philosophy, religion, and the social sciences.

Through the education of physicians, biomedical scientists, and technicians in allied health professions—and through the best possible care of patients—Vanderbilt Medical Center works to improve the health of the individual. Through scholarship and research leading to new knowledge about the nature, treatment, and prevention of disease, the Medical Center works to improve the health of all.

## Facilities

### *Vanderbilt University Hospital*

The hospital is a dramatic, twin-tower structure of red brick, especially equipped to provide complex and vital services to its patients, continuing Vanderbilt's century-old tradition of the best in patient care.

At the fifth floor level 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, providing

the children access to outdoor recreation just a few steps from their rooms.

### *Rudolph A. Light Hall*

Completed in 1977, Light Hall provides classroom and laboratory space for students in the School of Medicine. It houses the departments of biochemistry and physiology and the Howard Hughes Medical Institute. 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.

### *Medical Center North*

Outpatient clinics, outpatient radiology, the 21-bed Newman Clinical Research Center, Cooperative Care Center, dietary services, and most other support functions 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 is housed in the round wing of Medical Center North.

The original portions of the building were completed in 1925. Since that time, a number of connecting wings and buildings have been added:

*A. B. Learned Laboratories.* Completed in 1961 and 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. Now closed for renovation, it is scheduled to re-open in the fall of 1983 to house a rehabilitation center, a cooperative care center, and a burn center.

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

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

*Northwest Court.* This wing, also completed in 1967, is located north of the Round Wing.

*Joe and Howard Werthan Building.* The Werthan Building, completed in 1972, fronts on 21st Avenue South.

### *Medical Center South*

The Medical Center South includes inpatient facilities for child psychiatry, the Jerry Lewis Neuromuscular Disease Research Center, the Comprehensive Development Evaluation Center, and office space.

### *Langford Auditorium*

Completed in 1977, this 1,200-seat facility is for general University use, although it is located in the Medical Center area.

### *Bill Wilkerson Hearing and Speech Center*

A community-operated diagnostic and treatment center for audiologic and speech problems, the Wilkerson Center is located at Edgehill Avenue and 19th Avenue South.

### *Center for Health Services*

The Center for Health Services, occupying a historic residence near the Round Wing, is a multidisciplinary entity with campus-wide student and faculty participation. It was founded in 1971 to encourage and pursue improvements in health care, primarily in under-served communities. The curriculum of the center is designed around current health care issues. Outreach projects are directed by students with faculty advice. At present, course offerings for medical students are non-credit and elective credit in certain departments.

### *Medical Arts Building*

Erected in 1955, the Medical Arts Building provides members of the clinical faculty with convenient office space. A number of Vanderbilt Hospital outpatient clinics are housed in the Medical Arts Building.

### *The Cooper Building*

Twelve 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 the Tennessee Neuropsychiatric Institute, which is dedicated to clinical and basic research in the area of mental health.

### **Affiliated Facilities**

Vanderbilt is closely affiliated with the 485-bed Veterans Administration Medical Center—a Vice Chancellor's Committee hospital containing 439 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, Baptist Hospital, and St. Thomas Hospital also are affiliated with the educational programs of the Medical School.

### Medical Center Library

Founded in 1906 as the library of the School of Medicine, the Medical Center Library was moved in 1964 to its present location in the northeast wing of Medical Center North. These quarters were improved and expanded in 1977. The library serves the bibliographical and informational needs of all Vanderbilt University personnel who are engaged in the study, teaching, or practice of the health sciences. Primary support comes from the School of Medicine, with additional support coming from the School of Nursing, the Hospital, and other sources.

The library, which is the official archive of the Medical Center, contains over 128,000 volumes. About two-thirds of these are bound periodicals, and more than 1,400 current periodicals and serial publications are received on subscription. The History of Medicine Room houses a collection of materials illustrating the roots and development of medical literature, especially in the United States, as well as the unique Moll Collection on Hypnosis. The library serves as repository for a History of Nutrition collection and for the personal papers of prominent medical educators and researchers such as Amos Christie, Paul Fitzsimmons Eve, Joseph Goldberger, Rudolph H. Kampmeier, and W. Henry Sebrell, Jr.

The library provides seating for some 200 readers. It offers a wide range of services, including reference assistance and advice on bibliographic matters; instruction and orientation in use of library resources; 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 now available. The library participates in various cooperative ventures and projects, including the Southeastern Library Network (SOLINET) and the Regional Medical Library Program.

In addition to the resources of the Medical Center Library, readers have access to the total resources of the Vanderbilt University Library, numbering over 1.5 million volumes. Included are the Central/Science, Divinity, Education, Law, and Management libraries.

Development of the Medical Center Library depends very much on the interest of its users, and 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. LYNCH, M.L.S., Assistant Director for Technical Services and Collections

Development

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

JULIA S. FOLK, M.L.S., Serials Librarian



MARY CHARLES LASATER, M.L.S., Monographs Librarian  
 CAROL E. LEWIS, A.M.L.S., Reference Librarian  
 JUDITH ANN ORR, M.L.S., Head Librarian, Reference and Research Services  
 MARY H. TELOH, M.A., Special Collections Librarian

### Canby Robinson Society

Endorsed by Vanderbilt University to encourage leadership in 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 also was 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 of the Medical Center.

### Medical Center Visiting Committee

HOMER L. AKERS Cocoa Beach, Florida	MILDRED GREEN Nashville
IRIS E. AKERS Cocoa Beach	DOROTHY GROSSMAN Nashville
NELSON C. ANDREWS Nashville	LAURENCE A. GROSSMAN Nashville
SUE ADAMS ANDREWS Nashville	WADDELL HANCOCK Paris, Kentucky
BETTY BAILEY Nashville	JOHN L. HANIGAN Nashville
JACK G. BAILEY Nashville	M. MAGDALEN HARRER Crestwood, Kentucky
PAUL D. BOONE Washington, D.C.	WILLIAM W. HARRER Crestwood
TERRY CALVANI Nashville	ALICE I. HOOKER Nashville
JOHN W. COOKE, JR. Nashville	HENRY W. HOOKER Nashville
LAURA COOKE Nashville	LINDA HUNT Franklin, Tennessee
ROBERT W. DURY Melbourne Beach, Florida	WILLIAM L. HUNT III Franklin
FRANCES M. EDWARDS Nashville	KATHRYNE B. INGRAM Franklin, Tennessee
WILLIAM H. EDWARDS Nashville	H. KEITH JOHNSON Nashville
ANNETTE S. ESKIND Nashville	NANCY JOHNSON Nashville
IRWIN B. ESKIND Nashville	ERNEST G. KELLY Memphis, Tennessee
E. WILLIAM EWERS Nashville	MIRIAM KELLY Memphis
MARGE EWERS Nashville	ELIZABETH KENNEDY Nashville
E.S.C. FORD Seattle	THOMAS P. KENNEDY Nashville
M. STRATTON FOSTER Nashville	VIRGINIA KIRK Nashville
CARL N. GESSLER Donelson, Tennessee	ELIZABETH LANGFORD Nashville
MARGARET GESSLER Donelson	

- ANN LIGHT Palm Beach, Florida  
 GEORGEANNA W. LIPE La Jolla,  
 California  
 J T LIPE La Jolla  
 CHARLES T. LOWE Lebanon, Tennessee  
 RUTH LOWE Lebanon  
 BETTY HOVDA MANTEY Fort Walton  
 Beach, Florida  
 VIOLET M. McPEAK Rusk, Texas  
 GRACE McVEIGH Dallas, Texas  
 PAUL MOUNTCASTLE, Nashville  
 GLORIA A. MYERS Fort Worth, Texas  
 WILLIAM T. MYERS Fort Worth  
 CAROL S. ODESS Birmingham, Alabama  
 JOHN S. ODESS Birmingham  
 EVELYN OVERALL Nashville  
 JAMES C. OVERALL Nashville  
 LULU HAMPTON OWEN Nashville  
 RALPH OWEN Nashville  
 ELIZABETH CRAIG PROCTOR Nashville  
 MARGARET RECORD Chattanooga,  
 Tennessee  
 W.D.L. RECORD Chattanooga  
 MARIAN RHEA Paris, Tennessee  
 WILLIAM G. RHEA Paris  
 DOUGLAS H. RIDDELL Nashville
- JEANNE RIDDELL Nashville  
 JOHN L. SAWYERS Nashville  
 JULIA EDWARDS SAWYERS Nashville  
 H. WILLIAM SCOTT Nashville  
 MARY SCOTT Nashville  
 ALVIS JOE SCULL, JR. Santa Barbara,  
 California  
 MARGARET SMITH Nashville  
 ANITA STALLWORTH Nashville  
 ELIZABETH P. TAYLOR Menlo Park,  
 California  
 HARLAN H. TAYLOR Menlo Park  
 JUDITH THOMPSON Birmingham,  
 Alabama  
 HILLIARD TRAVIS Nashville  
 NANCY TRAVIS Nashville  
 BERNARD WERTHAN Nashville  
 LEAH ROSE WERTHAN Nashville  
 ANNE POTTER WILSON Nashville  
 DAVID K. WILSON Nashville  
 EDITH WINN Lake Arthur, Louisiana  
 CHARLES E. WORK Cincinnati, Ohio  
 MILDRED WORK Cincinnati  
 JANE YOUNT Oak Ridge, Tennessee  
 THOMAS L. YOUNT, JR. Oak Ridge

### The Environment

Favored for its key location in the rapidly developing sunbelt region, Nashville offers unique professional, cultural, and recreational opportunities.

The modern buildings and restored historic structures punctuating the downtown skyline give graphic evidence of the city's business vitality. Nashville has long been known as a center of banking, finance, and insurance. The rapid expansion of manufacturing and service operations since 1960 has completed a picture of prosperity that resists the swings of national economic cycles. Nashville is home base for a number of major national corporations, including Hospital Corporation of America, Genesco, Capitol Airways, and Aladdin Industries. Many major manufacturing installations—among them Dupont, Ford, Avco, and Datsun—are located in the Nashville area.

Nashville is the state capital, and government agencies constitute a substantial portion of the city's economic base. Major state departments and agencies are within a few minutes of the Vanderbilt campus. In addition, the city's sixteen colleges and universities include two major medical centers—Vanderbilt and Meharry Medical College—and the study of medicine is enriched by Nashville's status as a regional medical center for the Southeastern states.

Some of the most sophisticated soundstage and television studio facilities in the United States are here. RCA, Columbia, and many other

record companies have offices and recording studios in Nashville, which enjoys longstanding fame as Music City, U.S.A.

More than a dozen colleges and universities attract more than thirty thousand students from the U.S. and around the world. Vanderbilt is the best known of these institutions, which form a broad, influential community of higher education and lend Nashville the nickname "Athens of the South."

Nashville's cultural life is greatly enriched by the new Tennessee Performing Arts Center, with auditorium facilities for the Nashville Symphony Orchestra and a great variety of theatrical and musical performances. In addition, music, drama, and dance performances by both touring and resident artists are regularly scheduled events on the Vanderbilt campus.

Nashville's many restaurants cater to dining preferences ranging from barbecue and turnip greens to Peking duck. Entertainment choices are likewise wide-ranging, from hole-in-the-wall bluegrass joints to swank, showcase supper clubs. As for recreation: the area surrounding Nashville is a natural for hiking, camping, and caving. An abundance of streams and rivers allow boaters to choose lazy, scenic float trips or the thrilling trials of whitewater. Old Hickory and Percy Priest lakes, each about thirty minutes from Vanderbilt, are popular with skiers, sailors, and anglers. The Nashville Sounds (AA affiliate of the New York Yankees) play ball April through September, and Vanderbilt's football, basketball, and other Southeastern Conference teams generate sports excitement throughout the school year.

The city's many beautiful residential areas, easily accessible to offices, shopping, and recreation, provide a comfortable environment for family life.

All these diverse elements of the city are drawn together by a progressive form of city-county metropolitan government that has been studied and adopted by many other cities since its inception in 1964.

### **The University**

One-and-a-half miles from Nashville's downtown business district lies Vanderbilt University's 305-acre campus, which adjoins and includes the Medical Center facilities. Here arrogant squirrels scamper across broad lawns and up the glossy-leaved magnolias and towering oaks that shade the brick walkways connecting all parts of the University complex.

Vanderbilt was founded in the reconstruction period following the Civil War, when Commodore Cornelius Vanderbilt gave a million dollars to build and endow a university that would "contribute to strengthening the ties which should exist between all sections of our common country." Medical education was an integral part of the University from its very beginning.

Today Vanderbilt is a private, selective university with a strong faculty

of more than 1,250 full-time members and a diverse student body of about 9,000 from "all sections of our common country." Academic work is still governed by the honor system that was inaugurated at the time of the school's founding. The University now consists of ten schools:

*The College of Arts and Science*, offering the Bachelor of Arts and Bachelor of Science.

*The Graduate School*, offering the Master of Arts, the Master of Arts in Teaching, the Master of Science, and the Doctor of Philosophy.

*The Divinity School*, offering the Master of Divinity and the Doctor of Ministry.

*The School of Engineering*, offering the Bachelor of Engineering, the Bachelor of Science, and the Master of Engineering.

*The School of Law*, offering the Doctor of Jurisprudence.

*The School of Medicine*, offering the Doctor of Medicine.

*The School of Nursing*, offering the Bachelor of Science in Nursing and the Master of Science in Nursing.

*Owen Graduate School of Management*, offering the Master of Management, the Master of Business Administration, and the Doctor of Management.

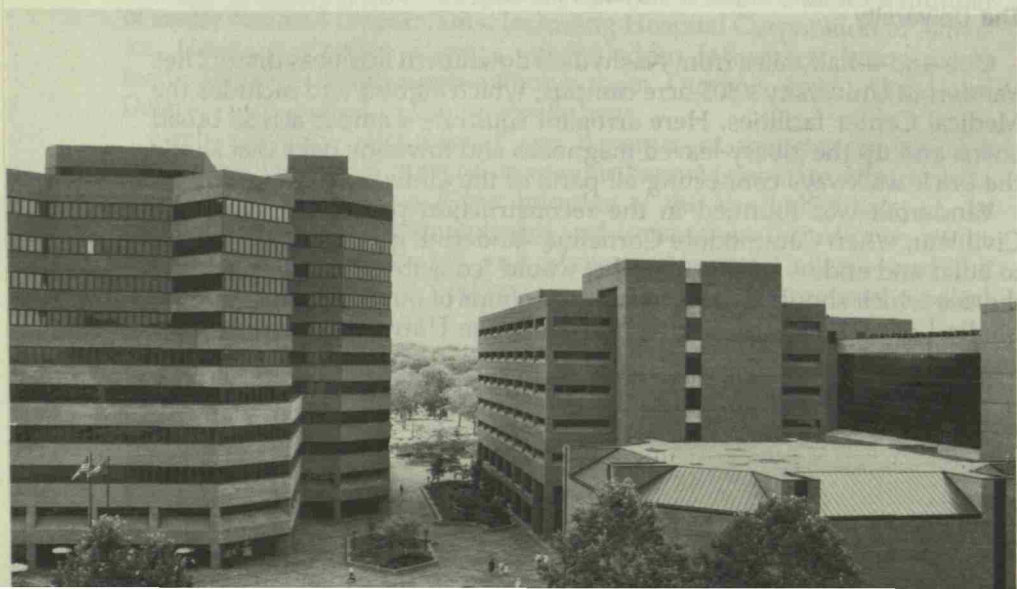
*George Peabody College for Teachers*, offering the Bachelor of Science, the Master of Education, the Master of Library Science, the Specialist in Education, and the Doctor of Education.

*Blair School of Music* (which as yet offers no degrees).

No honorary degrees are conferred.

Vanderbilt is a member of a consortium of universities and colleges called the Nashville University Center. Subject to availability of space, an interchange of courses is permitted among the member institutions, which include Fisk University, Meharry Medical College, Scarritt College for Christian Workers, and Vanderbilt.

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





VANDERBILT UNIVERSITY  
MURPHY SCHOOL  
OF LAW



# The School of Medicine

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# Medical Education at Vanderbilt

THE Vanderbilt University School of Medicine is committed to the education of physicians who are firmly grounded in basic medical science, who can recognize, treat, and prevent diseases and disorders in their patients, who can obtain, evaluate, and apply the results of scientific research, and who can translate their proficiency into effective humanitarian service.

The medical school's major strength lies in the quality of its students and faculty. This fact is responsible, in part, for the medical school's unusually low attrition rate; less than two percent of Vanderbilt's medical students fail to graduate within four years, as compared to the national rate of nine percent. Vanderbilt graduates rank high on the National Board examinations and traditionally seek—and receive—entrance to the quality residency programs around the country.

The faculty, which represents a variety of specialties and many strong research programs, has a national, even an international reputation for excellence in the biomedical sciences and clinical care. House staff officers who have teaching duties receive uniform commendation from students for their contribution to the educational program.

The medical school curriculum contains within its core and elective components the full spectrum of medicine. The curriculum provides sufficient structure to afford guidance and enough flexibility to encourage initiative. It provides traditional experiences in the sub-specialty disciplines of medicine and provides students research opportunities for academic credit. Cardiopulmonary resuscitation and emergency room experience, required of all students, emphasize techniques for maintaining life and the integrity of body systems following major trauma or life-threatening illness. To enrich and expand the student's understanding of people and non-technical aspects of medicine, there are courses in human development, human behavior, medical philosophy, medical ethics, medical history, death and dying, and human sexuality.

From among the 6,000 or more applications received each year at the School of Medicine, approximately a hundred students are chosen for the first-year class. A hallmark of the Medical School admissions process is the personal attention to details by the administrative staff and the Admissions Committee. The involvement of over a hundred faculty members in the interview and evaluation process creates a personal interest in each applicant. One of the most effective components of the admissions process is the applicant's guided tour of the Medical School facilities with a member of the student body as guide.

Special activities are designed to facilitate enrollment of minority and

disadvantaged students. Their transportation to Vanderbilt is paid, so that they may be interviewed on campus and see the Medical School before making a decision regarding acceptance.

Undergraduate medical education is but the beginning of a continuing process. Following 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 postdoctoral training in research is needed. The Vanderbilt program in medical education provides a sound basis for the physician graduate to enter any field of medicine he or she chooses. Vanderbilt's commitment to medical education as a lifelong pursuit is evidenced in programs of continuing medical education offered to alumni and to physicians practicing within the region primarily served by Vanderbilt Hospital.

### **Mission of the School of Medicine**

The School of Medicine fulfills two parts of the Medical Center's threefold mission—education and research—and contributes to fulfillment of the third—patient care.

*Education.* The school's 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. The faculty seeks to provide students with the attitudes and background, based on sound biomedical science, to continue their education lifelong. At Vanderbilt, every medical student has 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, a graduate who has the knowledge necessary to select an appropriate career and to contribute understanding and information to that chosen area of interest.

*Patient Care.* A teaching hospital and its extensions into outpatient care constitute a classroom based on high academic standards. The clinical facility also provides the faculty with a laboratory setting for clinical research. Faculty members serve as role models for young physicians, teaching the practice of exemplary patient care at all levels. Model programs of health care delivery, at primary, secondary, and tertiary levels, are consistent with the school's responsibility for community service in the widest context.

*Research.* In addition to teaching, members of the medical school faculty have a second and overlapping responsibility as members of the academic community to generate new knowledge through research. Exposure to an inquiring faculty sparks the spirit of inquiry in students. At Vanderbilt, research encompasses basic scientific questions, clinical

problems, and problems related to the health care system itself. Scientific excellence is the guiding principle of rigorous inquiry in all areas.

Vanderbilt is recognized as one of the leading medical schools in research activity in the United States. Because students are encouraged to participate, more than thirty percent have research experience before they graduate.

### History of the School

The first diplomas issued by Vanderbilt University were to sixty-one Doctors of Medicine in February of 1875, thanks to an arrangement that recognized the University of Nashville's medical school as serving both institutions. Thus, Vanderbilt embraced a fully-organized and functioning medical school even before its own campus was ready for classes in October of that year.

The arrangement continued for twenty more years, until the school was reorganized under control of the Board of Trust. In the early days, the School of Medicine was owned and operated as a private property of the practicing physicians who composed the faculty and received the fees paid by students—this system was typical of medical education in the United States at the time. Vanderbilt made no financial contribution to the school's support and exercised no control over admission requirements, the curriculum, or standards for graduation. After reorganization under the Vanderbilt Board in 1895, admission requirements were raised, the course was lengthened, and the system of instruction was changed to include 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 addition of the Ford Foundation in recent years, have contributed all together more than \$20,000,000 to the School of Medicine since 1911). The reorganized school drew upon the best-trained scientists and teachers in the nation for its faculty. The full benefits of reorganization were realized in 1925 when the school moved from the old South Campus across town to the main campus, thus integrating instruction in the medical sciences with the rest of the University. The school's new quarters were called "the best arranged combination school and hospital to be found in the United States."

Rudolph A. Light Hall, completed in 1977, is a sophisticated facility providing much-needed space for medical education and other student activities. The seven-story structure contains 209,000 square feet of space housing the latest in laboratory equipment, audio-visual and electronic

teaching tools, and multi-purpose classroom space. The second floor student lounge is designed to foster student interaction and to permit informal educational experiences—leading to the development of physicians grounded in the sciences but enlightened by humanitarian interests and understanding.

Light Hall is the physical manifestation of Vanderbilt Medical School's ongoing commitment to excellence in all areas of medical education.

### Objectives of the Program

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

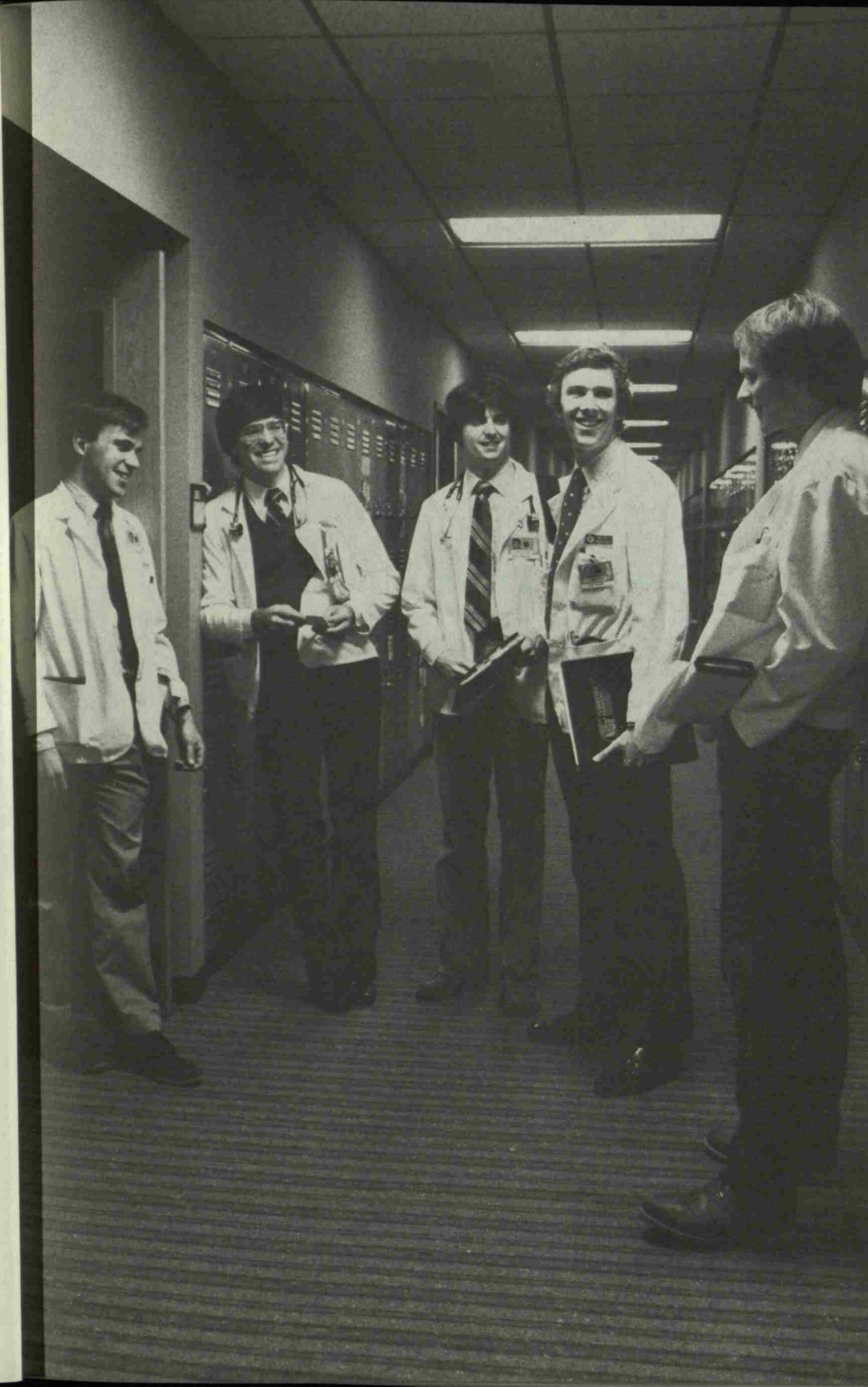
1. *an understanding of the fundamental principles involved in human development, from its normal sequence to the disorders of development, structure, and function.* To reach this understanding, the student must acquire basic knowledge concerning the physical, chemical, biological, psychological, and social factors which affect human development.

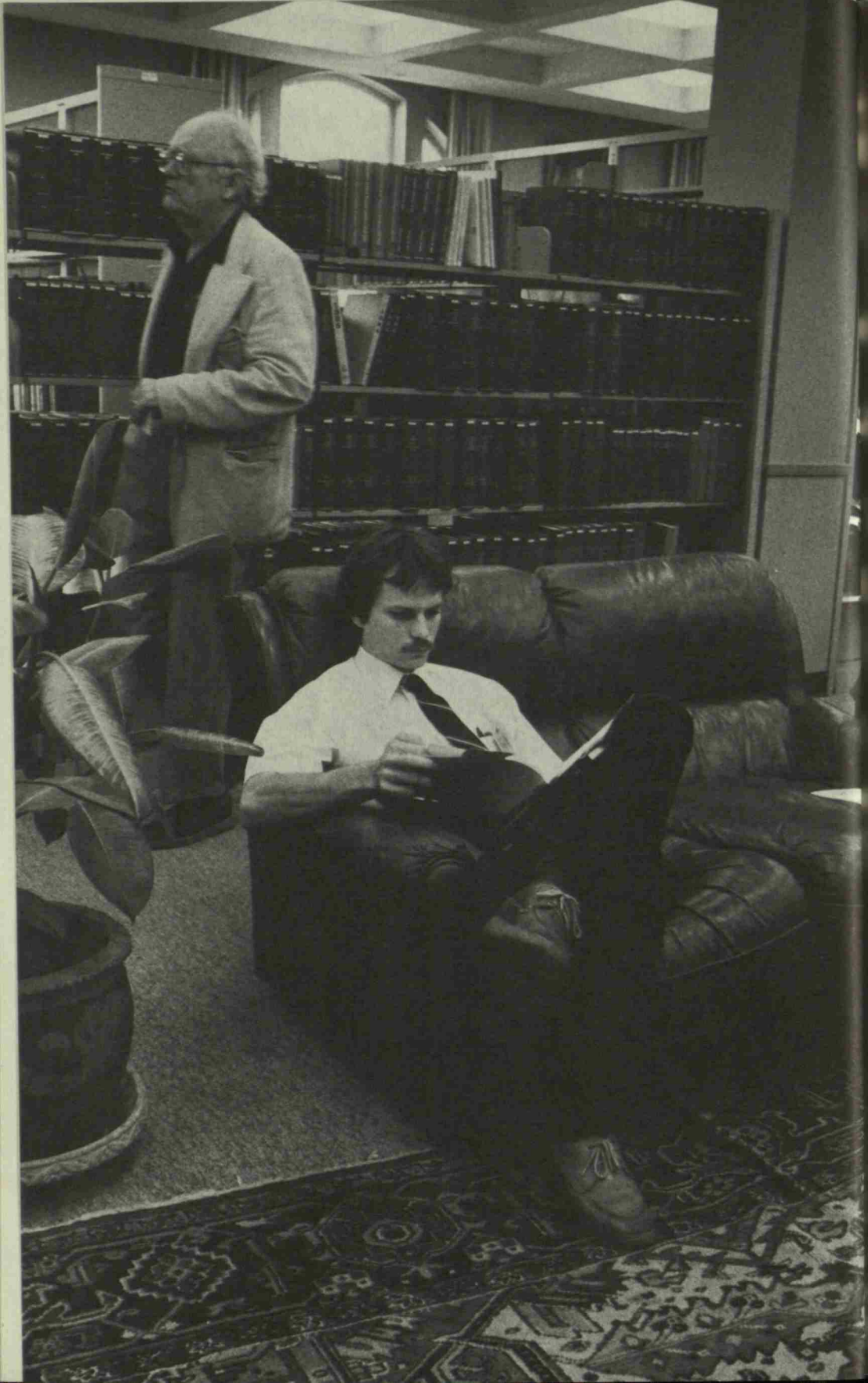
2. *the basic diagnostic skills to recognize disease and disorders in the patient.* To acquire these skills, the student must be trained to perform physical examinations and laboratory tests, and to interpret the results within the framework of the patient's unique history.

3. *the knowledge of operative and therapeutic procedures to treat disease and disorders, and of the techniques and resources for their prevention.* To acquire this knowledge, the student must be directly involved with sick patients, with the clinical processes requisite for their treatment, and with the means available for the prevention of disease and the maintenance of health.

4. *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 with equal rapidity 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 and use wisely the results of scientific investigation.

In our first century of professional medical education, Vanderbilt has established a proud tradition. We enter our second century keenly aware of what the future demands, prepared to adapt our educational programs to the health care needs of tomorrow. Vanderbilt Medical School will identify and meet those needs within the context of proven strengths and our focused mission as a school of medicine. The diversity of emphasis and strength which has characterized Vanderbilt's first hundred years carries us confidently into the future.





# Admission

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

1. Graduates of a college or university of recognized standing.
2. Seniors-in-absentia of a college or university of recognized standing who will be granted the bachelor's degree by their college after having completed successfully one year of work in the School of Medicine. A properly accredited statement to this effect from the college shall accompany all applications for admission as seniors-in-absentia. A form is furnished for this purpose.
3. Students of U.S. or foreign universities of recognized standing who, having 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. 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 including laboratory work. Quantitative laboratory work should be emphasized.

*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.

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### **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 15 June, in the event the student does not matriculate.

### **Visiting Medical Students**

Visiting students are permitted registration for course work 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 Assistant Dean for Student Affairs. Visiting students must present evidence of adequate professional liability coverage and health insurance coverage and pay a registration fee when registering for course work. Since visiting students have no status for credit as Vanderbilt medical students they are not issued credit for their experience at Vanderbilt, nor do they establish a medical school-based



record at Vanderbilt. 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.

### Medical Scientist Training Program

The combined M.D./Ph.D. program is designed to develop teachers and investigators in the clinical and basic medical sciences. Students in the program have the opportunity 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 develops 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 and medical research.

The M.D./Ph.D. program fully meets the Vanderbilt 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. The intent is to utilize optimally the strengths of each school.

#### Admission to the Program

To make application to the M.D./Ph.D. program, complete the Medical Scientist Training Program section of the final application to Vanderbilt Medical School. Applications to the program are reviewed by the Medical Scientist Training Program Committee and by the Medical School Committee on Admissions. Applicants must be accepted into Vanderbilt Medical School upon recommendation by the Committee on Admissions and into Vanderbilt Graduate School upon recommendation of the Medical Scientist Training Program Committee. In exceptional circumstances, late applications to the program will be received from applicants who have already been accepted into Medical School. Students who have completed one or more years in Medical or Graduate School may also apply for admission to the combined degree program.

Upon enrollment in the M.D./Ph.D. program, students are assigned to faculty and student advisers and undergo orientation during their first semester, to familiarize them with Ph.D. study and research activities of the affiliated graduate programs: Anatomy, Biochemistry, Bio-

medical Engineering, Microbiology, Molecular Biology, Pathology, Pharmacology, and Physiology.

Following the orientation program, but before the end of their first year in Medical School, M.D./Ph.D. students must select and be accepted into the graduate program of an affiliated department. M.D./Ph.D. students work closely with their assigned faculty and student advisers 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, devoted largely to the basic biomedical sciences. Students then enter the Graduate School (Ph.D.) part of the program after their sophomore year of Medical School. During this second phase the student meets the Graduate School residency requirements. The third phase consists of the clinical rotations of the junior year and the clinical clerkships of the senior year of medical school.

Requirements for the Ph.D. degree are set out in detail in the catalog of Vanderbilt Graduate School. Briefly stated, Ph.D. students must complete 72 hours of graduate work for credit, of which a minimum of 24 hours is required in formal course and seminar work. Ph.D. students must also complete a qualifying examination to test their knowledge of their field of specialization and present an acceptable dissertation in the major field of study.

M.D./Ph.D. students are encouraged to begin courses for Graduate School credit and to select a preceptor to supervise their dissertation research as soon as possible. They are also encouraged to undertake research at an early stage, including the summer prior to matriculation. Students usually complete much, if not all, course work, research, and writing for the Ph.D. dissertation before entering the third phase of the Program.

Attention is called to certain features concerning the assignment of course credit toward the Graduate School and Medical School degrees. In particular, it should be noted that the only course allowed for credit toward both the M.D. and Ph.D. degree is the basic course of the student's graduate department. All other approved courses are 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 for the Ph.D. degree. The M.D./Ph.D. student must be officially enrolled in any one semester in either or both the Medical and Graduate schools to insure appropriate assignment of credits.

### **Financial Support**

Special funding is possible for those who gain admission to the Medical Scientist Training (M.D./Ph.D.) Program.

Students who wish to receive financial support should so indicate on their application to the program. The limitations of financial support create a competitive situation in the selection process. In accepting financial support for the program, the student agrees that M.D./Ph.D. studies will be her or his principal effort and further agrees not to undertake concurrently any other gainful employment or effort without formal approval of the Medical Scientist Training Program Committee and the Medical School officers responsible for the M.D./Ph.D. program.

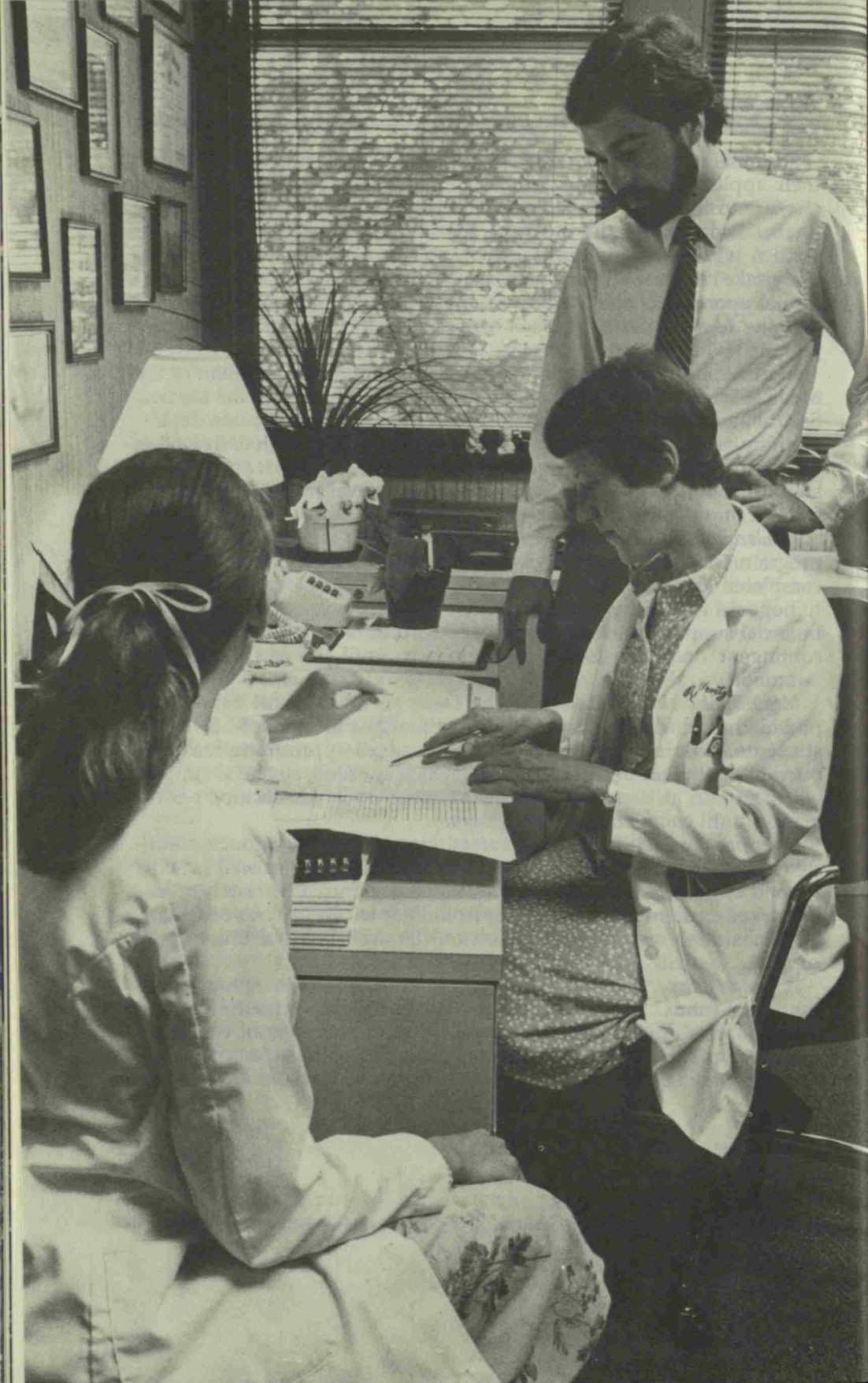
In general, financial support is arranged by mutual agreement of the Medical Scientist Training Program Committee, the Dean of the Medical School and, in certain instances, the chairman of the graduate department involved. Various sources of funds are available with each having different application requirements, restrictions, obligations, and levels of support. Some potential sources for support available to the student include the following:

*Vanderbilt Medical Scholarship Program.* This is a privately endowed program which ordinarily provides scholarships to students who have completed the second year of medical school. The scholarship pays tuition and fees and provides a stipend of \$6,000 a year. Once awarded, financial support from this scholarship will continue at the above rates, contingent upon satisfactory performance, until the M.D. degree is awarded.

*Medical Scientist Fellowships.* The Dean of the Medical School has provided funding for support of highly qualified incoming M.D./Ph.D. students. The fellowship pays tuition and all appropriate fees and provides a stipend of \$6,000 per year. Once awarded, financial support will continue at the above rate, contingent upon satisfactory performance, until completion of the program.

*Departmental Support.* Limited resources are available through graduate departments. Tuition remission awards 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 the availability of this type of support.

*Personal Support.* This refers to the student's own resources or sources of funds. Approved students for the Medical Scientist Training Program who do not receive financial support from any of the above sources may remain in the joint program at their own expense.



# The Academic Program

THE curriculum is divided into required courses taken by all students and elective courses taken at the choice of the individual student. 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. The program of electives must be approved by the assistant dean for student affairs.

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 are designated for presentations of school-wide interest, e.g., lectureships, medical society meetings, student papers. Students and faculty are expected to attend.

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 and Dean of Medicine.

## Major Courses

*First Year.* Biochemistry, gross anatomy, histology, the nervous system, physiology, and psychiatry. Most of the year is spent in the study of anatomy, biochemistry, and physiology. Saturday mornings and all day Wednesday during the second semester are reserved for study and electives. Electives available to the first-year student 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, ophthalmology, 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. Fourth-year students 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.

The fourth year is divided into academic units, during which students also serve in elective inpatient clerkships. The opportunities for use of this elective time include research fellowships in a clinical or preclinical department, at Vanderbilt or other institutions; advanced ward clerkships in clinical areas; combinations of a variety of specialty clinics and lecture courses. The flexibility of the fourth-year curriculum gives the student maximum opportunity for individual development.

Requirements include eight full academic units, a major clerkship in Medicine, a clerkship in Surgery (or surgical subspecialties) and a clerkship or three clinics in 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.

**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		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					Microbiology	
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.

University of Colorado



## 2nd Year Spring Semester

## Schedule of Courses

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

3rd Year		Schedule of Courses					
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

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

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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		Orth	Psychiatry		
8		Neu			
9	Pediatrics	Ob-Gyn	Psychiatry	Neu	
10				Orth	
11	Ob-Gyn	Pediatrics	Neu	Psychiatry	
12			Orth		
13	Surgery	Surgery	Pediatrics	Ob-Gyn	
14					
15			Pediatrics	Ob-Gyn	
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				Orth	Neu
3	Ob-Gyn	Pediatrics	Neu	Orth	Psychiatry
4			Orth	Neu	
5	Surgery		Pediatrics		Ob-Gyn
6					
7	Surgery	Surgery		Ob-Gyn	Pediatrics
8					
9					
10	Medicine				
11		Medicine		Surgery	Surgery
12					
13	Psychiatry	Neu	Orth	Medicine	Medicine
14		Orth	Neu		
15	Neu	Orth	Psychiatry		
16	Orth	Neu			

**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 in Surgery (or surgical subspecialties) and a clerkship or three clinics in 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.

## Advanced Training

In addition to its primary responsibility of educating medical students, the School of Medicine has active programs for graduate students in the preclinical sciences, for postdoctoral interns and residents, and for postdoctoral research trainees.

### 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 at 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, adjacent to the Vanderbilt Medical Center, is used extensively 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. The fellowship was made available to the University by the late Dr. Pilcher and has been continued by the generosity of his family and friends.

### Post-Residency Fellowships

Post-doctoral courses have as their goal the training of physicians for practice and certification in a medical sub-speciality. 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.

### Continuing Medical Education

The School of Medicine recognizes a major commitment to the continuing education of physicians. Activities in support of this goal con-

tinue without interruption throughout the physician's professional life and are made available by special arrangements with the departments of the School of Medicine. Under the auspices of the Division of Continuing Medical Education, the School of Medicine offers a broad spectrum of courses throughout the year, for periods of varying length, to meet the needs of physicians in practice. Since many courses have limited registration, inquiries should be directed to the Division of Continuing Medical Education.

Of special interest is the clinical training program, or "mini-residency," whereby physicians return for one or more weeks of clinical education in the patient units of the University Hospital, in conjunction with regular programs of graduate and undergraduate medical education. Physicians interested in this type of specialized, intensive experience in a specialty or sub-specialty should direct their inquiries to the director of the Division of Continuing Medical Education.

#### **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 chairman of the 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. (See also Medical Scientist Training.)

Candidates for the degree of Master of Science in hearing and speech sciences may pursue work in their 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.





# Academic Regulations

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

Students are expected to familiarize themselves with the *Student Handbook*, available at registration, which provides information about University services, policies, and procedures, including 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 as one of several performance criteria considered in the evaluation of the student.

### **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.



# Lectureships



**THE 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 ALLAN 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 ROBERT N. BUCHANAN, JR., VISITING PROFESSORSHIP IN DERMATOLOGY.** The Department of Medicine established in 1980 a visiting professorship to honor Dr. R. N. Buchanan, Jr., professor emeritus and former chairman of the Division of Dermatology. Each year a distinguished dermatologist is invited to come to Vanderbilt to deliver a series of formal lectures and participate in teaching conferences.

**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.

**THE 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 lecture 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.

**THE CONRAD JULIAN MEMORIAL LECTURE.** This lecture was instituted in 1980 in honor of Dr. Conrad G. Julian, the first director of gynecologic oncology at Vanderbilt University Hospital. The lecture is delivered each year on a subject related to gynecologic oncology and is given in conjunction with the annual Gyn Oncology Seminar.

**THE 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.

**THE 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.

**THE 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.

**THE 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.

**THE 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.

**THE 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.

**THE 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 1947-1969. 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 DAVID RABIN LECTURE IN ENDOCRINOLOGY.** The Department of Medicine established in 1980 a visiting lectureship in recognition of the salient contributions Dr. David Rabin, professor of medicine and head of the Division of Endocrinology, has made to the world of endocrinology, the educational programs of Vanderbilt University Medical Center, and the community of Nashville. This lectureship will bring annually to Vanderbilt a world leader in the science of endocrinology and the application of that science to the solution of the problems of humankind.

**THE VANDERBILT UROLOGY SOCIETY VISITING PROFESSORSHIP AND RHAMY-SHELLEY LECTURE.** This annual visiting professorship and lectureship was established in 1972 through the efforts of former residents in urology at Vanderbilt University Medical Center. An outstanding urologist, from either the United States or abroad, is invited to spend four or five days as visiting professor in the Department 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 conferences and lectures. The activities conclude with a formal lecture which honors Dr. Robert K. Rhamy, who was chairman of the Department of Urology at Vanderbilt from 1964-1981, and Dr. Harry S. Shelley, former chief of the Division of Urology at Nashville Veterans Administration Hospital.

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





# Honors and Awards



## **Alpha Omega Alpha**

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

## **Founder's Medal**

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

## **Other Prizes and Awards**

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

**THE AMOS CHRISTIE AWARD IN PEDIATRICS.** Established in 1970 by an anonymous donor, this award is made 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.

**THE 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.

**THE 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.

**THE RUDOLPH H. KAMPMEIER PRIZE IN CLINICAL MEDICINE.** An annual award of \$1,000, presented through the generosity of the Southern Medical Association, is made to the student who, at the completion of the fourth year of training, is judged by the faculty of

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

**THE KAUFMAN PRIZE IN MEDICINE.** This award, honoring J. Kenneth Kaufman, M'39, is presented to a graduating medical student who has demonstrated qualities of humaneness, dedication, and unselfish service in the study of medicine and will apply these qualities in medical practice.

**THE H. WILLIAM SCOTT, JR. PRIZE IN SURGERY.** This award is presented to the graduating student who exemplifies the qualities of leadership, performance and character reflecting the ideal surgeon.

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

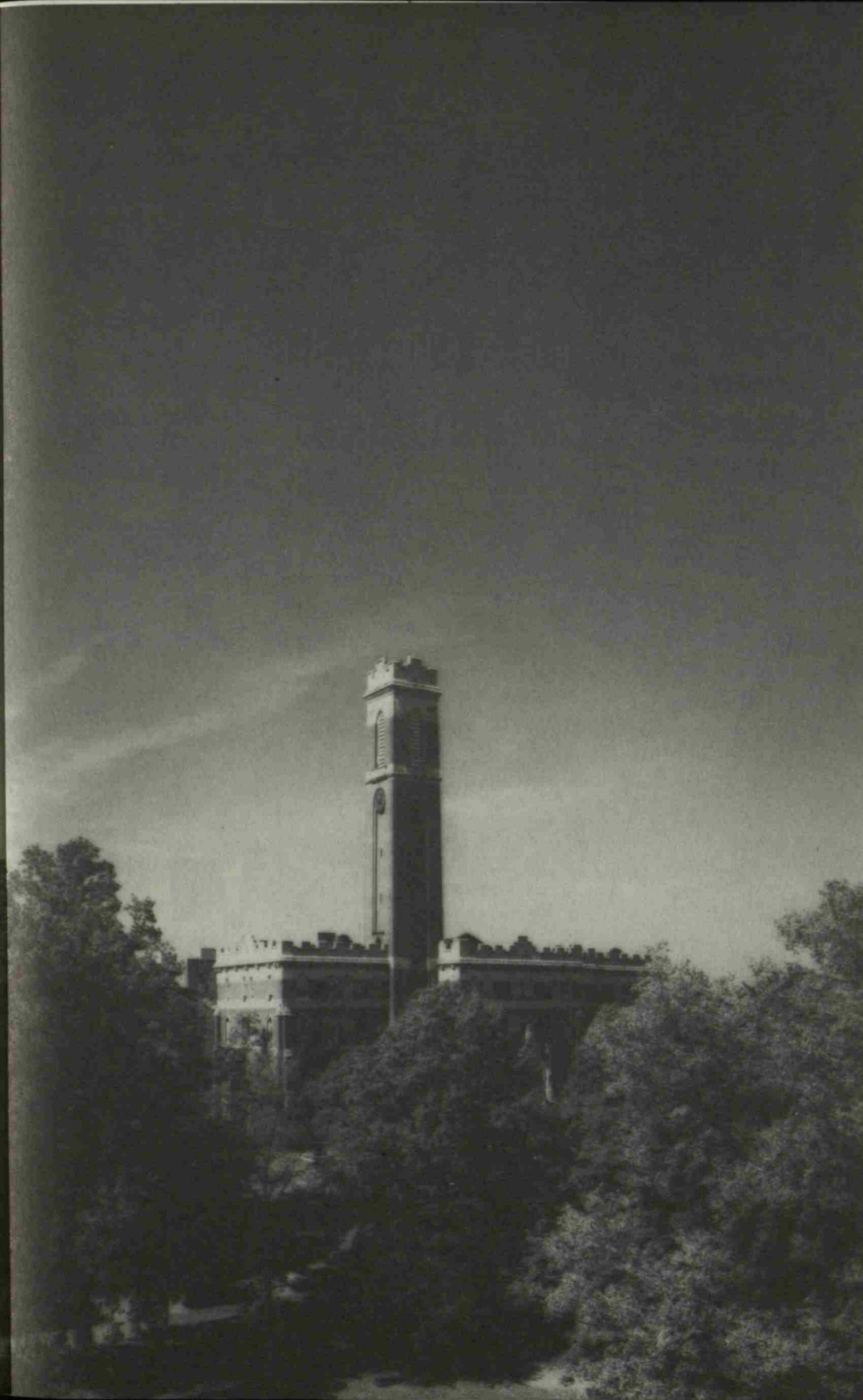
**THE JOHN L. SHAPIRO AWARD FOR EXCELLENCE IN PATHOLOGY.** This award is given to the student selected by the Department of Pathology on the basis of accomplishments and potential in medicine with superior performance in the pathology course or superior performance in research in pathogenesis of disease.

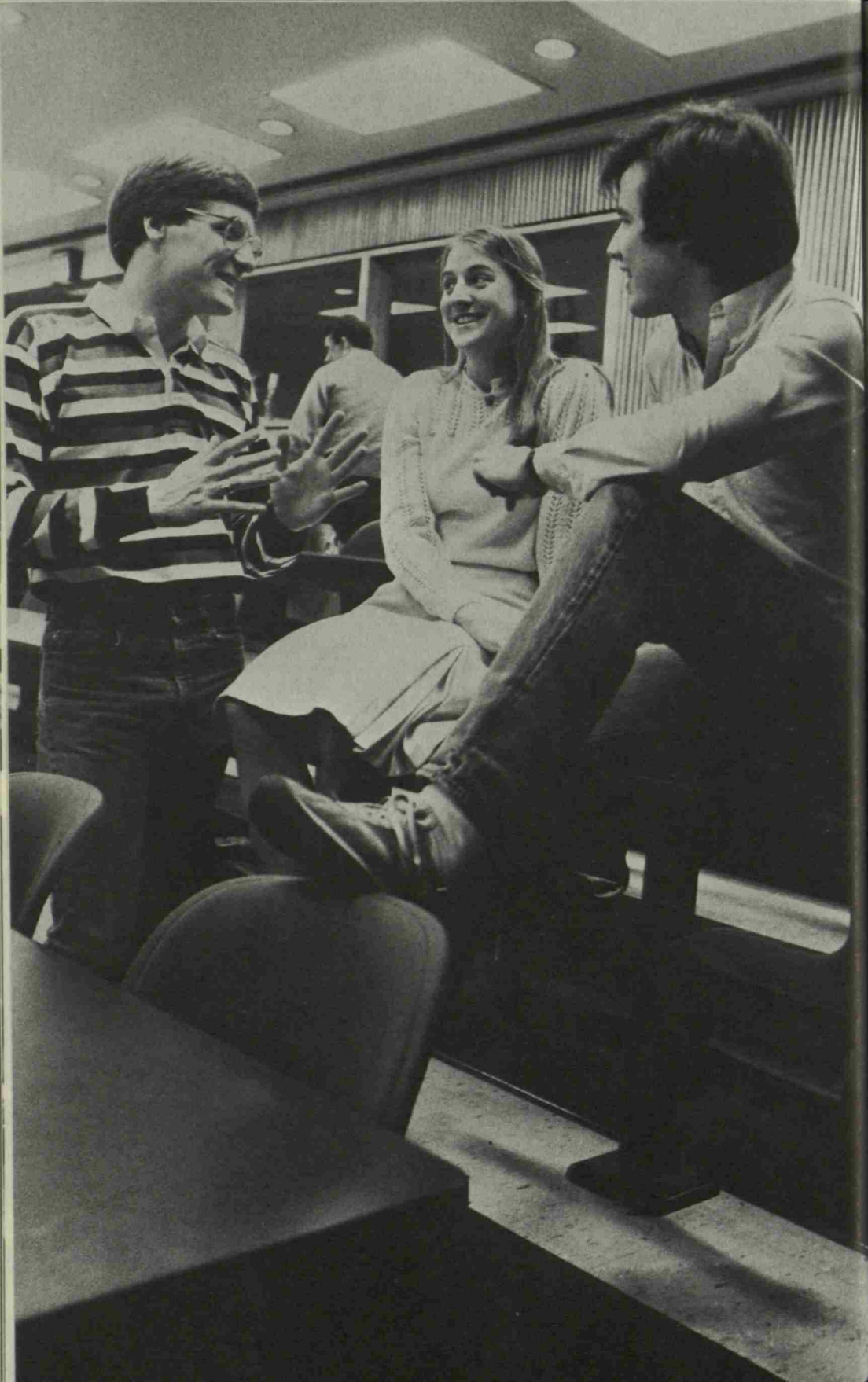
**THE SURGICAL CLERKSHIP AWARD.** This award is presented annually by the section of *surgical sciences* to a student who has had a superior performance in the third-year surgical clerkship and who plans to enter graduate education in surgery. The award includes an expense-paid attendance at the annual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

**THE 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.

**THE ALBERT WEINSTEIN PRIZES IN MEDICINE.** Three prizes established in memory of Albert Weinstein, M.D., are awarded at graduation to fourth-year 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 was 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.





## Life at Vanderbilt

**T**HE University provides accommodations for as many graduate and professional school students as possible in University-owned apartments and in 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 entering students who apply by 1 May, in advance of assignment to returning students. After 1 May, assignment is made on the basis of 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 carpeting throughout, central air conditioning, and fully equipped kitchens with garbage disposals. Rent includes utilities, telephone service, and the use of all public areas.

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

At Mayfield Place, between 24th and 25th Avenue South, several lodges may be designated for graduate and professional students. Each Mayfield lodge is composed of ten single bedrooms, a living area, two baths, and limited kitchen facilities. Five bedrooms and one bath are on each floor. Rent includes utilities and telephone service.

### *Off-Campus Housing*

To provide additional housing for students, the University has purchased four apartment buildings in the University area. Interested students should communicate with the Office of Residential and Judicial Affairs for further information.

This office also maintains a listing of available off-campus accommodations in the Nashville area. The majority of rental property listed is in close proximity to the campus, with cost, furnishings, and conditions of the accommodations varying greatly. For best choices, students seeking off-campus housing should visit the Office of Residential and Judicial Affairs for suggestions and guidance in June or early July.

### **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.

Meals are available on a cash basis, or books of meal tickets may be purchased by graduate and professional students for \$216. This can be budgeted to cover approximately 33 percent of all weekday meals served each semester. State sales tax is not charged for students who live on campus. The book of \$1 coupons may be used in any of the dining areas or snack bars during the school year in which it is purchased. Supple-

mentary coupon books, discounted 5 percent, are available for \$76 to students who have purchased the initial \$216 meal ticket book.

### **Student Health Service**

The Student Health Service is designed to meet the primary medical and mental health care needs of students in an environment supportive of the special needs of the student population. Preventive and educational aspects of common health concerns are emphasized.

The hours of operation are from 8 a.m. to 4:30 p.m., Monday through Friday, and 8 to 11:30 a.m. on Saturday. Except in emergencies, students should call for appointments. 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—a substantial part of this cost is usually covered under the Student Insurance Plan. A 24-hour telephone consultation service is also available by calling the Student Health Service at 322-2427.

Medication and supplies ordered by Student Health Service physicians and stocked at the facility are provided to students at cost. Laboratory tests performed on the Health Service premises are provided without charge. A charge is made, however, for laboratory tests that must be provided at other locations. Students should be prepared to present their I.D. and validation cards when coming to the Student Health Service.

The Student Health Service program provides comprehensive high-quality care. Services are available for most conditions affecting the student population and are provided in a confidential (to the extent permitted by law) and sensitive manner. When the condition requires the involvement of a specialist, referrals will be made, which will be the responsibility of the student. In this way the costs of health care for students can be kept to a minimum.

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.

### **Hospitalization Insurance**

All students at Vanderbilt are required to have adequate hospitalization insurance coverage. The annual premium is in addition to tuition. Coverage extends from 21 August until 20 August of the following year, whether the student remains in school or is away from the University. This plan is designed to provide liberal hospital, surgical, and major medical benefits. A brochure explaining the limits, exclusions, and benefits of the plan is available at registration, in the Office of Student Accounts, and at the Student Health Service.

### *Waiver of Vanderbilt Insurance Plan*

A student who does not wish to subscribe to the insurance plan offered by the University must notify the University of adequate hospitalization coverage under another policy. New students must complete and return an acceptance/waiver card available at registration or in the Office of Student Accounts. Acceptance/waiver cards may be completed by returning students if they wish to change their current insurance status.

The insurance charge will not be waived if the cancellation is not received and verified in Student Accounts by 15 October for fall semester and 15 February for spring semester.

### *International Student Coverage*

International students, whether attending the University full time or part time, and their dependents residing in the United States are required to purchase a special University foreign student health insurance plan. Exceptions are made only when in the judgment of the University adequate coverage is provided from some other source. Information and applications are provided through the Office of International Services.

### *Family Coverage*

An additional premium is charged for family hospital insurance coverage. Married students who wish to provide coverage for their families may secure an application form from the Student Accounts office at the time of registration.

### **Counseling Services**

The Psychological and Counseling Center offers comprehensive psychological services to Vanderbilt students, faculty, staff, and organizations. The center provides individual and group counseling for personal, social, and emotional problems, marital counseling, and career testing and counseling. Group programs for personal growth, self-improvement, awareness, and support are also available.

The center offers a reading and study skills program as well as individual consultation on study-related concerns. It provides testing services for University programs, and administers national standardized tests such as the Graduate Record Examination, Graduate Management Admissions Test, Medical College Admissions Test, Law School Admissions Test, and others.

Appointments may be made by visiting the Counseling Center at 300 Oxford House, at Twenty-first Avenue South and Dixie Place, or by calling 322-2571.



### **Services for Handicapped Students**

The School of Medicine is committed to assist handicapped students in pursuing their educational goals. Assistant Dean Daniel Buxbaum is available to help with any problems in adjustment to campus life and to facilitate any accommodations that might be required. Students are invited to write Dean Buxbaum at 115 Light Hall, Nashville, Tennessee 37232, to discuss their particular concerns. The services of the Opportunity Development Center, P.O. Box 1809, Station B, Nashville, Tennessee 37235, are also available.

### **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, 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, subject to the availability of seats.

### **Campus Security**

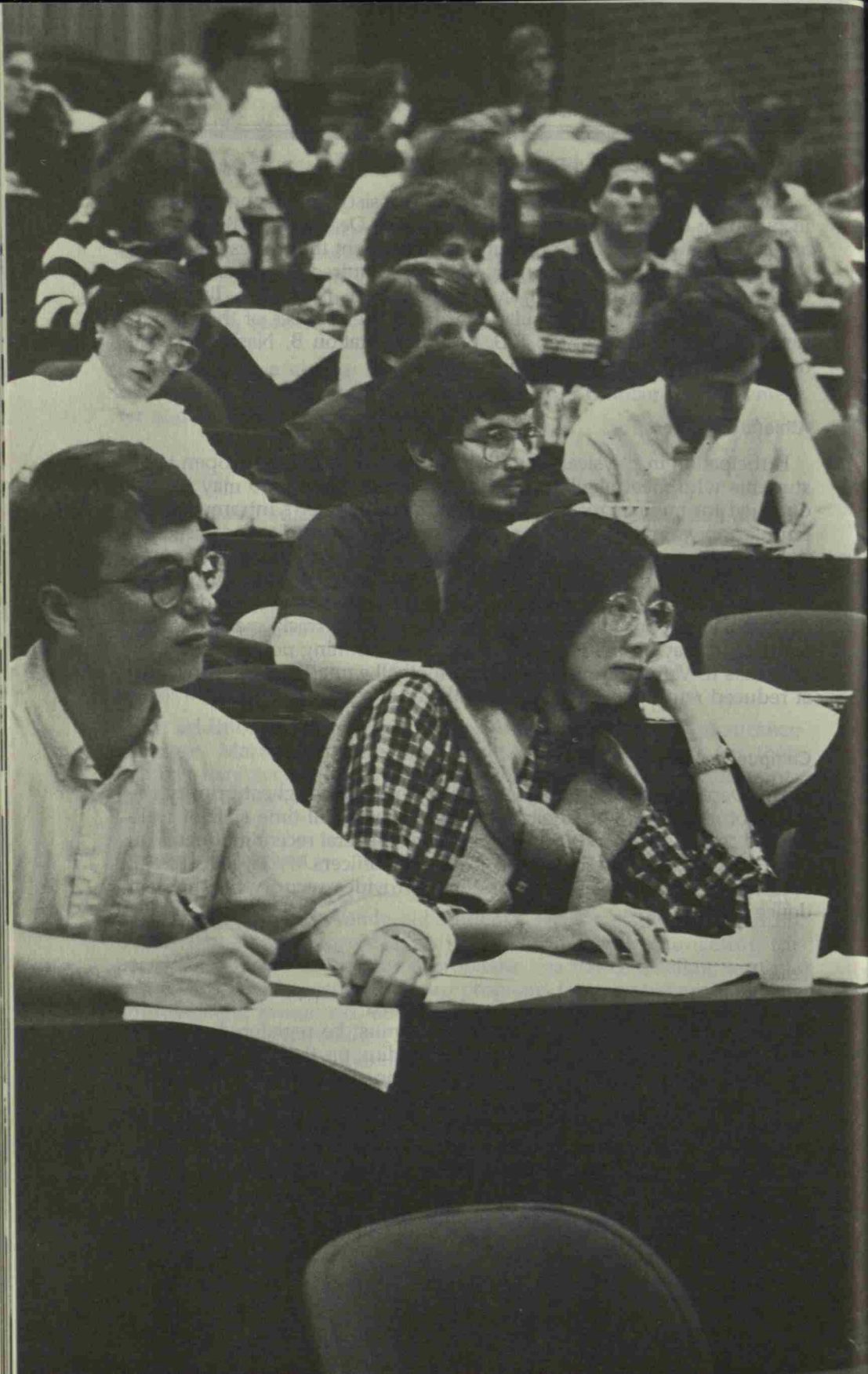
The Department of Security and Safety has as its highest priority the safety of students. The department maintains a full-time staff of well-trained commissioned security officers, with several recent graduates on the force, augmented by student security officers. A large corps of security reeves, most of them students, provides security for the residence halls.

### *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 the Hospital and adjacent to the west wing in the main medical center complex. Bicycles are not permitted inside buildings.

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



# Financial Information

**T**HE minimum annual expense of a student in the School of Medicine, exclusive of clothes and incidentals but including living accommodations, is estimated as approximately \$14,000.

## Tuition and Fees

Tuition (1983-84 academic year)	\$8,900
Application fee (to accompany final application)	25
Student activities fee (Sarratt Center)	27
Microscope usage fee (1st and 2nd years)	85
Student health insurance	132
Professional liability insurance	50

*Tuition and fees are set annually by the Board of Trust and are subject to review and change without further notice.*

First-year medical students who are also three-year students in the College of Arts and Science are required by the College to pay a senior-in-absentia fee equal to one hour of Arts and 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. The \$50 deposited with the Admissions Office when the student is accepted is applied to the bill for the first semester.

## Late Payment of Fees

Charges not paid by registration or when otherwise due will be automatically deferred (the Division of Student Services may refuse to allow

a deferment of charges if in its judgment the deferment is unwarranted) and the student's account will be assessed a monthly late payment fee at the following rate: \$1.50 on each \$100 that remains unpaid after registration (\$5 minimum). An additional monthly late payment fee will be assessed unless payment is received in full on or before the 25th day of the following month; and late payment fees will continue for each month thereafter based on the outstanding balance unpaid as of the 25th day of each month.

### **Financial Clearance**

Students will not be allowed to register for any semester if they have outstanding unpaid balances for any previous semester. No transcript, official or unofficial, will be issued for a student who has an outstanding debit balance at the time the transcript is requested; transcripts will be released when the account has been paid. Degrees of graduating students will be withheld until all bills are paid.

### **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 \$400-\$500 per year. Purchases made at the Vanderbilt Book Store are on a cash basis.

### **Activities Fee**

Medical students pay an annual student activities fee of \$27, which entitles them to use the facilities of Sarratt Student Center. By payment of an additional fee, during specific and announced periods, students and their spouses may have their I.D. cards validated for admission to athletic events.

### **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 Education, 4511 Switzer Building, Washington, D.C. 20202.

### 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 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 full-time faculty of Vanderbilt University School of Medicine are not eligible for consideration for a Justin Potter Medical Scholarship.

Stipends of \$10,000 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 recom-

mends to the Justin Potter Medical Scholarship Committee candidates from the eleven southeastern states who have accepted official invitation to attend Vanderbilt. Candidates selected by the scholarship committee are then invited to Nashville for personal interviews (candidates will be reimbursed for their expenses). The committee, composed of outstanding businessmen, physicians, and educators, makes its final selection, and the successful candidates are designated "Justin Potter Medical Scholars."

**CATHERINE EASTERLING MOUNTCASTLE SCHOLARS PROGRAM.** The Catherine Easterling Mountcastle Scholars Program was established in 1983 through the generosity of Mrs. Mountcastle's family to support promising and needy students in Vanderbilt School of Medicine. Catherine Easterling Mountcastle Scholars will be selected, from students who have accepted official invitation to the School of Medicine, by the Scholars Selection Committee from a candidate list provided by the Committee on Admissions of the School of Medicine.

Stipends of \$11,000 annually are awarded to successful candidates and, with satisfactory progress at Vanderbilt, continue for four years.

### Financial Assistance

Education leading to the Doctor of Medicine degree requires a careful consideration of financial commitment by the prospective student. Financial planning is an important part of the student's preparation for medical school.

In addition to the Honor Scholarships just described, limited scholarships, fellowships, loans, and financial aid awards are available through Vanderbilt, based solely on demonstrated financial need. Financial aid from school sources must be considered a supplement to personal resources rather than the primary source of funds necessary to attend medical school. University financial aid is not adequate to meet students' demonstrated need, but 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 and family assets, Vanderbilt aid funds, and other sources.

Government funds that furnish significant loans to medical students are:

The Guaranteed Student Loan program and related federal and state loan funds,

The Health Education Assistance Loan program,

The PLUS program (auxiliary loans to assist students).

Applications for financial aid will be sent to incoming first-year students at the time they are offered admission to the Medical School.

Applicants desiring more specific information about financial aid resources should write to the Assistant Dean for Student Services.

### Scholarships

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

**THE BURRUS SCHOLARSHIP FUND.** This endowed scholarship was established by members of the Burrus family to help meet the cost of tuition for medical students who have demonstrated need.

**THE CARNATION SCHOLARSHIP FUND.** This scholarship fund was established by the Elbridge and Mary Stuart Foundation and is for third- and fourth-year students only. Consideration is given to academic excellence as well as financial need.

**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 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.

**MINORITY SCHOLARSHIP FUNDS.** Funds are provided to needy, minority medical students.

**MEDICAL STUDENT SCHOLARSHIPS.** Funds are available to needy students through gifts donated by alumni and friends of Vanderbilt Medical School.

**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 DEWITT THOMPSON SCHOLARSHIP FUND.** These funds are to be used as scholarship funds for needy students 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.

### *Other Scholarships*

A scholarship for studies in nutrition is awarded by the Department of Biochemistry. Further information is available from the department.

## Revolving Loans

THE 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 EDWARD F. COLE REVOLVING MEDICAL LOAN FUND. These funds are made available to students through contributions from Dr. Edward F. Cole, a Vanderbilt Medical alumnus.

THE WILLIAM A. DIMMICK EMERGENCY 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.

THE MAX EISENSTAT REVOLVING STUDENT LOAN FUND. This fund was established to honor the memory of Dr. Max Eisenstat.

THE DR. ISADORE DAVID HASKELL FUND. This fund is provided by a bequest from the will of Mrs. Elena G. Haskell. These loans are to be provided in emergency situations to needy and deserving students.

THE 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 W. K. KELLOGG FOUNDATION LOAN FUND. This fund was established through donations from the W. K. Kellogg Foundation. It is to be used as a revolving student loan fund.

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."

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 McVEIGH LOAN FUND. This loan fund is provided by a bequest from the will of Grace McVeigh in memory of her mother and father, Bess and Townsend A. McVeigh.

THE VANDERBILT MEDICAL FACULTY LOAN FUND. This fund is made available by donations from members of the Medical School faculty to be used to defray the educational costs of disadvantaged students.

THE MEDICAL LOAN FUND OF LIFE AND CASUALTY INSURANCE COMPANY OF TENNESSEE. Through donations from the Life and Casualty Insurance Company of Tennessee, needy students are provided revolving student loans.

THE KARL METZ MEMORIAL LOAN FUND. This fund was established in memory of Karl Metz for needy students.

THE LOUIS ROSENFELD STUDENT LOAN FUND. This fund was established by contributions from Dr. Louis Rosenfeld and from friends in honor of Dr. Rosenfeld.

THE JOHN N. SHELL ENDOWMENT FUND. This revolving loan fund is provided by a bequest from the will of John N. Shell.

THE LEO SCHWARTZ LOAN FUND. This loan fund was established through contributions from Dr. Leo Schwartz.



**THE 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 STUDENT LOAN FUND.** Funds provided by the will of Georgine C. Rhodes were left to Vanderbilt University for the purpose of establishing a loan fund in the School of Medicine.

**THE THOMPSON STUDENT LOAN FUND.** This fund is to be used as a revolving loan fund for students in the School of Medicine from Middle Tennessee.

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

**THE 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.

**THE J. F. FOX STUDENT LOAN 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.

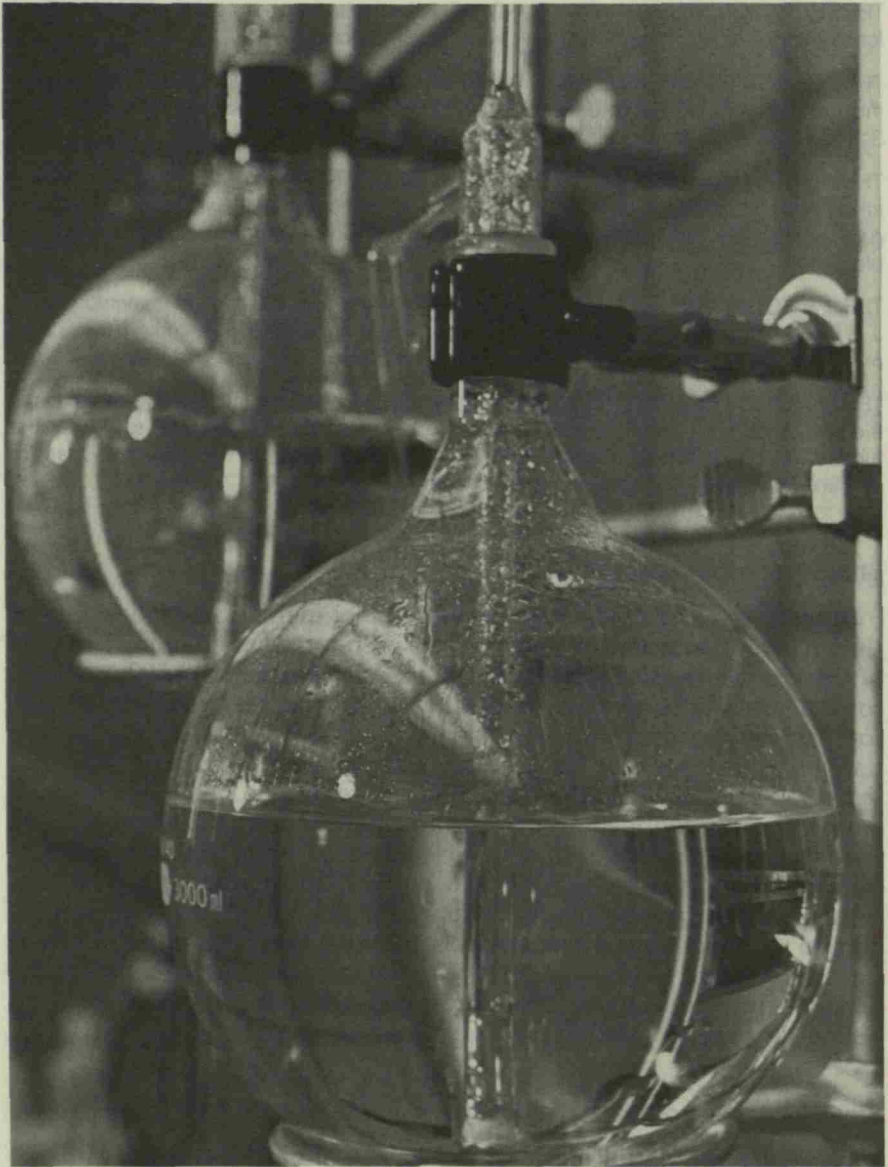
### **Student Summer Fellowships**

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 \$2,000 to \$2,250 for the summer programs, depending upon experience. Limited funds for fellowship support are available on a competitive basis 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 Heart Association. Research projects may be taken as electives for credit but without remuneration. Special arrangements can be made for participation in research programs abroad or in other medical schools in the United States. Individual departments or faculty members may also support student research experiences. Funds from all sources are becoming more difficult to obtain, but remain available, though limited.

### **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.



# Research in Medical Sciences

## Endowed 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.

**THE 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.

**THE ERNEST W. GOODPASTURE CHAIR IN EXPERIMENTAL PATHOLOGY.** In recognition of Ernest W. Goodpasture, this chair is established to enhance basic investigative efforts in experimental pathology.

**THE 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 JAMES C. OVERALL PROFESSORSHIP IN PEDIATRICS.** Through the generosity of Mr. and Mrs. William K. Warren of Tulsa, Oklahoma, this chair was established in 1981 to enhance the academic program in the Department of Pediatrics. The professorship honors Dr. James C. Overall, clinical professor emeritus of pediatrics, a distinguished clinician and contributor to American pediatrics.

**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 H. WILLIAM SCOTT, JR. CHAIR IN SURGERY.** Through the generosity of members of the H. William Scott, Jr. Society, a society consisting primarily of residents trained by Dr. Scott, this professorship was established in 1983 to honor Dr. Scott for his contributions to the Section of Surgical Sciences and Vanderbilt University during his thirty-year tenure as Chairman from 1952-82.

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.

THE 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 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. This is 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 income from a gift to Vanderbilt by Mrs. Hazel H. Hirsch as a memorial to her son, Jack Fies, 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 BEQUEST OF AILEEN M. LANGE FOR MEDICAL RESEARCH. To be used for medical research in preventing and curing ailments of human beings.

THE ANNIE MARY LYLE MEMORIAL FUND FOR MEDICAL RESEARCH. This gift is to be used for basic or applied research in medical science, particularly cardiovascular research or another area of need.

THE NEUROLOGY RESEARCH FUND. Funds to be used for research efforts in the field of Neurology.

THE MINNIE J. ORR FUND FOR RESEARCH IN POLIOMYELITIS OR HEART DISEASE.

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. Half of the founding grant was contributed by the nieces and nephews of Mrs. Leslie Warner.

## Research Centers

Vanderbilt University School of Medicine encompasses a number of multidisciplinary research groups that are funded primarily by external sources. Many of the centers involve investigators from schools of the University other than medicine. A brief description of each center and its general activities follows.

### Arthritis and Lupus Center

The program of this center is organized around five Vanderbilt-associated rheumatologists who participate actively in center activities and provide clinical research data bases regarding natural history, therapy and outcome of rheumatic disease patients. A small, full-time University staff concentrates on analysis of clinical data and a basic research program concerning the cellular regulation of immune function. Projects in various stages of development include clinical research, education, and community activities. Major center support comes from the National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases.

### Cancer Center

The center, still in a fledgling state, is identified with all cancer-related efforts at Vanderbilt. The center is assigned 5,000 square feet of space in

which most members of the Oncology Division of the Department of Medicine maintain their offices. The A.B. Hancock, Jr., Memorial Laboratory is also located in this area. Research focuses on the biochemistry and biology of chromatin and cell nucleus in normal and malignant cells. A cancer chemotherapy program is a strong component. Principal support for the center comes from the National Cancer Institute.

#### **Clinical Research Center**

The Clinical Research Center (CRC) is a 21-bed unit located in Medical Center North. Its objectives are to encourage and support clinical research into the cause, progression, prevention, control, and care of human disease. These it fulfills by creating a controlled environment for studies of normal and abnormal body function. The CRC provides space, hospitalization costs, laboratories, equipment, and supplies for clinical research by any qualified member of the faculty in any medical school department. The common resources of the CRC support all disciplines, with particular emphases on clinical pharmacology, endocrinology, gastroenterology, hematology, and diabetes. The CRC is supported by a grant from the Division of Research Resources.

#### **Clinical Nutrition Research Unit**

The CNRU is one of the seven units established nationwide by the National Institutes of Health. Its objectives are to improve research in clinical nutrition, to strengthen the nutrition training of medical students, house staff, practicing physicians, and other health care personnel, and to improve patient care by focusing attention on nutrition. Clinical activities and projects explore the nutritional factors in hepatic encephalopathy; the zinc and copper needs of pediatric patients on total parenteral nutrition; vitamin-trace element metabolism in patients with chronic dialysis or with essential fatty acid deficiency; evaluation of the effect of nutritional repletion of moderately undernourished patients after surgery; and the feasibility of home nutritional support in small cell lung cancer. The center also operates a metabolic assessment laboratory for the assay of 18 vitamins, minerals, and proteins important to nutrition. The work of the CNRU is supported by a grant from the National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases.

#### **Diabetes Research and Training Center**

The Vanderbilt Diabetes Center (DRTC) involves ninety-one participating faculty members from fourteen departments, schools, and colleges of the University. The center is organized into three components: research, training and translation, and administrative. The ac-

tivities of the research component include basic biomedical research and the Pilot and Feasibility Studies Program, which aids new investigators in testing the feasibility of new ideas before submitting grant proposals for long-term support. The training and translation component operates a model demonstration unit in which students in the health professions encounter patients with well-characterized diabetes who have volunteered for approved clinical research programs. The administrative component develops outside resources for training and research grants and initiates and supervises such activities as the Diabetes Center Seminar Series and the Visiting Scientist Program. Center funding is provided by grants from the NIH.

### **Center in Environmental Toxicology**

The center studies potentially harmful chemicals in the environment and the origin and mechanism of disease states brought about by such chemicals. Investigators are drawn from the departments of biochemistry, pathology, pharmacology, preventive medicine, and chemistry at Vanderbilt and from Western Kentucky University. Current research projects include model studies with sulfur compounds; heavy metal toxicology and chelating agents; chemical mechanisms of metabolism; naturally occurring central nervous system toxins; mycotoxins; metabolism of toxic compounds; metal carcinogenesis; bacterial mutagenesis; and tissue studies. Center funding derives from a grant from the National Institute of Environmental Health Sciences and from a training grant in toxicology.

### **SCOR in Hypertension**

The objective of the SCOR (Specialized Center for Research) in Hypertension is to contribute to improved diagnosis, treatment, and prevention of hypertension, with major effort directed to the study of renal and adrenal hypertension. The multidisciplinary research group is composed of investigators from the areas of biochemistry, clinical pharmacology, endocrinology, vascular surgery, cardiology, urology, radiology, and biostatistics. Among the accomplishments of the center's investigators are: one of the best success records in renovascular surgery; complete purification of renin for the first time since its discovery eighty years ago; preparation of well-defined antibodies to renin; discovery of the major role of prostaglandin  $I_2$  in renin release; operation of a clinic internationally recognized for excellence in the diagnosis of renovascular hypertension and primary aldosteronism. Center support is provided by a SCOR grant and a training grant from the National Heart, Lung and Blood Institute.

### **SCOR in Newborn Lung Disease**

Investigators from the departments of pediatrics, medicine, biochemistry, pathology, and pharmacology work together in the SCOR in Newborn Lung Disease. Research projects focus on pulmonary growth and development *in utero*, the ability of the lung to adapt to the stress of birth at differing stages of maturity, and the pathogenesis of some of the most important neonatal pulmonary disorders (hyaline membrane disease and Group B Beta-hemolytic streptococcal sepsis, for example). Investigators employ an integrated approach of basic science disciplines, animal modeling of physiological problems, and mathematical evaluation of the outcome to address these problems. The center is funded by a grant from the National Heart, Lung and Blood Institute with additional support from a March of Dimes Birth Defects Foundation.

### **Neuromuscular Disease Research Center**

The center, which encourages close collaboration between basic and clinical sciences, draws investigators from the University departments of biochemistry, molecular biology, pathology, pharmacology, physiology, medicine, pediatrics, and neurology. Center projects include six studies of muscle membranes in normal and abnormal states, five studies of metabolic and endocrine factors in nerve and muscle disease, and two basic studies concerned with neuromuscular transmission and the degradation of contractile proteins. Clinical studies include a collaborative study to find a therapeutic agent for Duchenne dystrophy, a genetic study of T-cell regulation of B-cells in polymyositis. The center is funded primarily by a grant from the Muscular Dystrophy Association.

### **Center for Pharmacology and Drug Toxicology**

Center investigators include clinical pharmacologists in the areas of medicine, pediatrics, and psychiatry working in association with a nucleus of investigators whose research in biochemical pharmacology includes the biotransformation of drugs, analytical pharmacology, and pharmacokinetics. Research programs focus on the metabolism, distribution, and biochemical effects of drugs in human beings. The center's scientific resources enable application of the best available techniques and approaches to studies of drugs in humans and provide an environment for training investigators in clinical pharmacology. Funds for center support come from the National Institute of General Medical Sciences.

### **Center for Population and Reproductive Biology**

Thirty-four faculty members from ten departments in the School of Medicine and the College of Arts and Science participate in the work of



the center. Basic and clinical research focuses on four areas: the male reproductive system; the female reproductive system; fertilization, implantation, and embryonic development; and reproductive endocrinology. Center financing is provided by a grant from the National Institute of Child Health and Human Development and from thirty-five research grants related to both basic and clinical aspects of the reproductive sciences.

### **Primary Care Center**

The Primary Care Center focuses on issues in health care and involves faculty from the departments of pediatrics and internal medicine and the School of Nursing. One of the center's major projects is the assessment of rural health in East Tennessee. Other projects include: a study of public policies affecting children with chronic illnesses and their parents; developmental aspects of children's understanding of bodily function and illness causation; the impact of chronic handicapping conditions in childhood on psychological development and adjustment of siblings; patient behavior and motivation; antibiotic choice on recurrence of otitis media in childhood; and patient attitudes toward alcoholics before and after a course on alcoholism. Grants from the NIH, the Robert Wood Johnson Foundation, and the W. T. Grant Foundation are primary sources of funding.

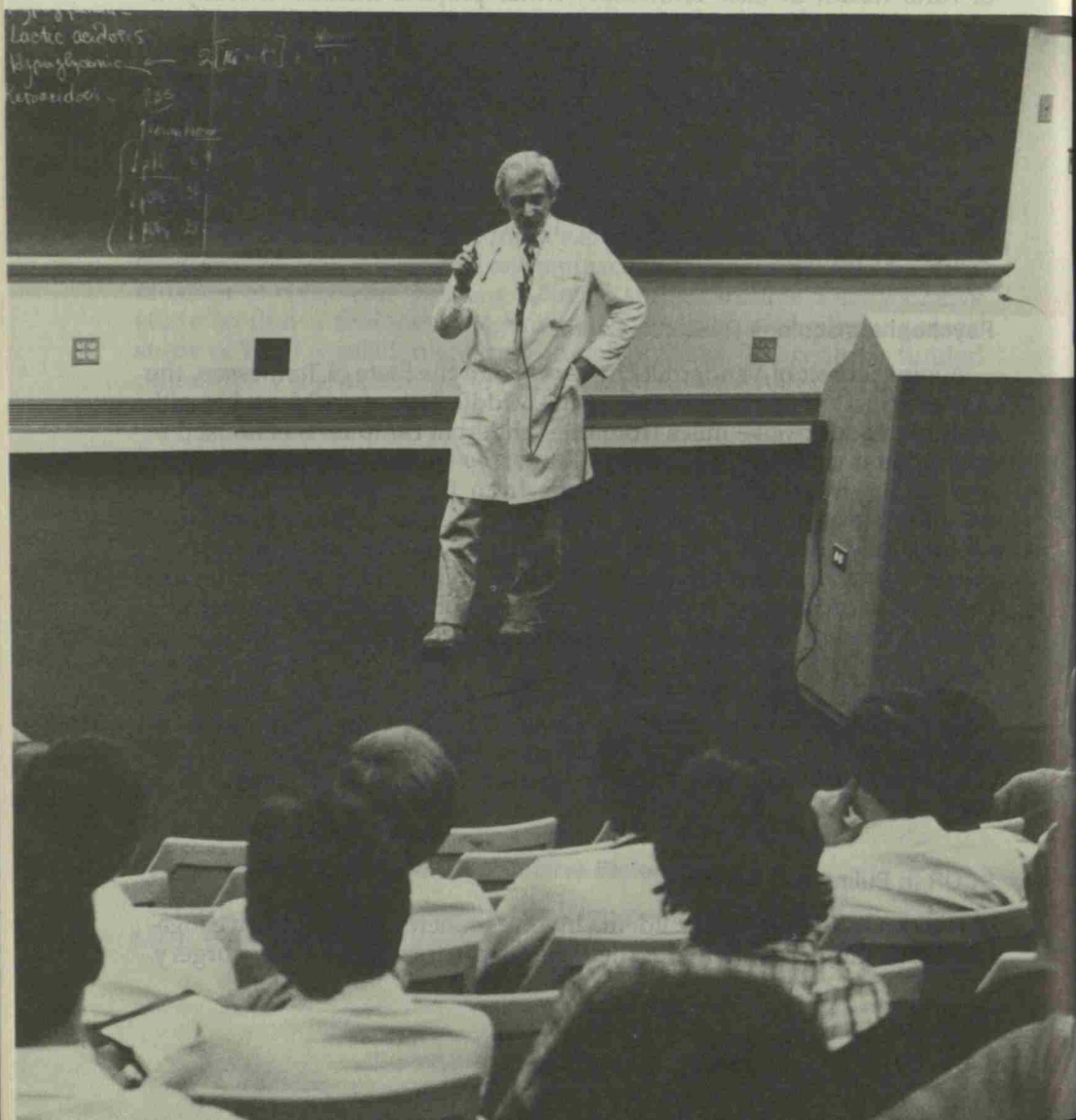
### **Psychopharmacology Research Center**

A joint project of Vanderbilt University and the State of Tennessee, the center is located on the grounds of the Middle Tennessee Mental Health Institute about twelve miles from the Vanderbilt campus. It is housed in space that is collectively called the Tennessee Neuropsychiatric Institute and brings together faculty members from the departments of pharmacology, psychology, and psychiatry for the study and treatment of mental illnesses. Current research interests in the basic division of center operations include: studies in biochemical and molecular neuropharmacology; metabolism of psychotropic drugs; adrenergic mechanisms in the brain; serotonergic mechanisms in the brain; cholinergic and peptidnergic mechanisms in the brain; behavioral pharmacology; and medicinal chemistry. The clinical division researches drug treatment of mental diseases. Center support comes from contracts with the State of Tennessee, individual grants to investigators, and drug companies that fund drug trials undertaken by the clinical science division.

### **SCOR in Pulmonary Edema**

The SCOR in Pulmonary Edema involves nineteen full-time investigators from the departments of medicine, pediatrics, pathology, surgery,

and pharmacology. The general focus of research is on lung circulation—specifically, on mechanisms of lung vascular injury and on the response of the lung to such injury. Investigations range from basic laboratory studies to clinical studies in patients with acute respiratory failure. Principal support of the research derives from a Specialized Center of Research in Pulmonary Vascular Diseases grant from the National Heart, Lung and Blood Institute. Additional support comes from an NIH training grant, a private foundation training grant, and several individual awards made through the NIH to investigators participating in the program.



# 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
  - Biostatistics*
- Psychiatry
  - Human Behavior*
- Radiology and Radiological Sciences

## SURGICAL SCIENCES

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

# Anatomy

CHAIRMAN OF THE DEPARTMENT Jack Davies, M.D.

EMERITUS PROFESSOR Ward


PROFESSORS Burt, Davies, Freeman, LeQuire, Orgebin-Crist

ASSOCIATE PROFESSORS Adkins, Casagrande, Davenport, Hoffman, Kaas, McKanna, Olson, Rosenthal

ASSISTANT PROFESSORS Aulsebrook, Norden

INSTRUCTORS Hoos, Nanney

RESEARCH ASSOCIATES Jackowski, Manis, Sellers

 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

CHAIRMAN OF THE DEPARTMENT Bradley E. Smith, M.D.

EMERITUS PROFESSOR Pittinger

PROFESSORS Berman, Holaday, Smith

CLINICAL PROFESSOR Chadwick

ASSOCIATE PROFESSORS Harris, Linn, Quimby, Wood

ASSOCIATE CLINICAL PROFESSORS Berry, Eryasa, Schull

ASSISTANT PROFESSORS Alcantara, Chen, Ghosh, Handte, Heerdt, Kambam, Parris, Phythyon, Sandidge, Wasudev

ASSISTANT CLINICAL PROFESSORS Anderson, Bertz, Caldwell, Cannon, Chang, Foster, Genca, Menzie, Mixon, Siler

INSTRUCTOR Perales

CLINICAL INSTRUCTOR Ramsey

RESEARCH ASSOCIATE Hess

✦ 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: pre-operative 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. Heerd.*

## Biochemistry

CHAIRMAN OF THE DEPARTMENT Leon W. Cunningham, Ph.D.

EMERITUS PROFESSORS Darby, Faulkner, Hayes

PROFESSORS Broquist, Chytil, Cohen, Coniglio, Cunningham, Guengerich, Hnilica, Inagami, Puett, Touster, Wagner, Wilson

VISITING PROFESSOR Todhunter

RESEARCH PROFESSOR Dalton

ADJUNCT PROFESSOR Neal

ASSOCIATE PROFESSORS Greene, Hellerqvist, Mann

ADJUNCT ASSOCIATE PROFESSOR Frederiksen

RESEARCH ASSOCIATE PROFESSORS Burka, Danzo, Ong

ASSISTANT PROFESSORS Boucek, Carpenter, Felts, Kuczenski, Meredith, Osheroff, Staros, Warnock

RESEARCH ASSISTANT PROFESSORS Ascoli, Borum, Briggs, Hankins, Horne, Kotite, Misono, Oeltmann

RESEARCH INSTRUCTORS Cook, Enns, Melner, Schmidt

RESEARCH ASSOCIATES Dannan, Distlerath, Dolowy, Duhl, Fava, Friedman, Grammer, Inagaki, Kawamura, Maki, Nakamura, Reilly, Shea, Tamura

✦ 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

DIRECTOR OF THE DIVISION Fred H. Bess, Ph.D.

EMERITUS PROFESSOR McConnell

PROFESSORS Bess, Lové, Sanders

ASSOCIATE PROFESSORS Humes, Kirshner

ADJUNCT ASSOCIATE PROFESSORS Glasscock, Horton


ASSISTANT PROFESSORS Clark, Klee, Ohde, Sitton, Webb

ADJUNCT ASSISTANT PROFESSORS Garrard, Grantham, Josey

ASSISTANT CLINICAL PROFESSORS Bratt, Jackson, Keenan

INSTRUCTORS Davis, Logan

CLINICAL INSTRUCTORS Allen, Fitzgerald, Lazenby

 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

CHAIRMAN OF THE DIVISION John E. Chapman, M.D.


VICE CHAIRMAN OF THE DIVISION John O. Lostetter

PROFESSORS Chapman, James

ASSOCIATE PROFESSORS Hodges, Urmey, Wentz

ASSISTANT PROFESSORS Couto, Haines, Lostetter, Quimby

INSTRUCTORS Corrigan, Cox, Deters, Manley

 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

INTERIM CHAIRMAN OF THE DEPARTMENT James D. Snell, M.D.

EMERITUS PROFESSORS France, Goodwin, Kampmeier, Paine, Sinclair-Smith

PROFESSORS Alford, Branch, Brigham, Brittingham, Crofford, DesPrez, Flexner, Friesinger, Krantz, Liddle, Oates, Orth, Pincus, Rabin, Ramsey, Robinson, Ross, Salmon, Schaffner, R. Smith, Snell, Spickard, Stone, Theil, Zaner

RESEARCH PROFESSOR Stumpf

CLINICAL PROFESSORS EMERITI Billings, Johnson, Riven, Shull, Thomas, Zerfoss

CLINICAL PROFESSORS Adams, Campbell, Grossman, Page, Pennington, Scoville

ASSOCIATE PROFESSOR EMERITUS Terry

ASSOCIATE PROFESSORS Avant, Dunn, Felts, S. Graber, Greco, Hande, Harris, Harrison, Johnson, Kaiser, Kronenberg, Lacy, Mann, Marney, L. C. McKee, Melly, Meyrick, Perry, Roberts, D. Robertson, R. Robertson, Schillig, Slaton, Stein, Teschan, Wood, Woosley

ASSOCIATE CLINICAL PROFESSOR EMERITUS Frist

ASSOCIATE CLINICAL PROFESSORS Alper, Anderson, Ewers, Foreman, Goldner, A. Graber, Griscom, Haltom, Johnson, Kaplan, Sergeant, Stumb, Thorne, Wolfe

ASSISTANT PROFESSORS Abumrad, Ascoli, Bernard, Bird, Bondurant, Brenner, Burish, Cherrington, Chytil, Dessypris, Doelle, FitzGerald, Forbes, Gibson, Gluck, Gregg, Gregory, Hainsworth, Hankins, Harston, Heim, Hollifield, Houston, Island, Johnson, Koury, Lefkowitz, Leonard, Loyd, MacDonell, McRae, Nadeau, Newman, Oeltmann, Ogletree, Pichert, Porter, Primm, Roden, Sandler, Savage, Schneider, Sheller, Snapper, Stratton, Turkat, Utrecht, Wentz, Wilson, Wolff, Workman

VISITING ASSISTANT PROFESSOR Yang

RESEARCH ASSISTANT PROFESSORS Collins, Higgins

SENIOR ASSOCIATE Ratner

ASSOCIATES Christensen, Guy

ASSISTANT CLINICAL PROFESSORS Averbuch, Barnett, Bodner, Bomboy, Card, Cooper, Couch, Cowden, Davis, Dixon, Fentress, Frederiksen, Grossman, Halprin, Harkleroad, A. Harwell, J. B. Haynes, Kaplan, Massie, McLeod, McNeil, Merritt, Mitchell, Shull, M. W. Smith, Stouder, Sussman, Sweeney, Ward, Wilson, Wyatt

INSTRUCTORS Arnold, Clark, Ellis, Forman, Grosh, Hohannes, Jackson, Lichtenstein, McGrew, Nicholson, Pearson, Powers, Schultz, Sullivan, Uderman

RESEARCH INSTRUCTORS Bateman, Dawson, Parker

CLINICAL INSTRUCTORS E. E. Anderson, E. B. Anderson, H. R. Anderson, Baker, Batson, Breinig, Cohen, Dopp, Dunkerley, Elam, Elson, Eskin, S. Felts, Gibson, Gregory, Hayes, J. H. Haynes, Hines, Holliday, Hollister, Huston, Interlandi, Jennings, John, I. T. Johnson, R. M. Johnson, Kennedy, Kinnard, Knapp, Kochtitzky, G.-S. McKee, Michael, M. E. Miller, M. P. Miller, Miller-Frost, Miranda, Mitchell, Morris, Neaderthal, Price, Quinn, Ralph, Rember, Ribeiro, K. Robinson, Rosen, M. Rosenblum, S. Rosenblum, Roy, Schulman, Schweikert, Strayhorn, Ticaric, Tucker, Van Devender, Ward, Williams, Winter, Wray, Ynares

RESEARCH ASSOCIATES Frazer, Fryer, Rogers, Sawyer

## Dermatology

HEAD OF THE DIVISION Lloyd E. King, Jr., M.D., Ph.D.

PROFESSOR King

CLINICAL PROFESSOR EMERITUS Buchanan


ASSOCIATE PROFESSOR Fields

ASSISTANT PROFESSOR Carpenter

RESEARCH ASSISTANT PROFESSOR Gates

ASSISTANT CLINICAL PROFESSORS Hamilton, Witherspoon

CLINICAL INSTRUCTORS Harwell, Latour, McDaniel, Meyer, Salyer, Simpson

 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 subspecialty 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 subspecialty areas as pulmonary disease, renal pathophysiology, infectious diseases, clinical pharmacology, clinical epidemiology, cardiology, pulmonary consultation, rheumatology, clinical endocrinology, and medical oncology.

### 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, oncology, 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. McGee, Dr. McKee, and Gerald M. Fenichel, Professor of Neurology.*

**502.2 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 one-hundred thirty-five 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 sub-

specialty conferences held throughout the academic year. *Dr. Liddle, Dr. DesPrez, Dr. Salmon, and Staff of the Department of Medicine*

## Microbiology

CHAIRMAN OF THE DEPARTMENT Albert S. Kaplan, Ph.D.

EMERITUS PROFESSOR Colowick

PROFESSORS Ben-Porat, Colley, Harshman, Hash, Kaplan, Lawton, R. W. Moyer, Pincus

ASSOCIATE PROFESSORS S. A. Moyer, Robinson, Tibbetts

ASSISTANT PROFESSORS Melly, Wright

VISITING ASSISTANT PROFESSOR Crowle


RESEARCH ASSISTANT PROFESSORS DeMarchi, Womack

ADJUNCT ASSISTANT PROFESSOR Green

VISITING INSTRUCTOR Ahn

RESEARCH INSTRUCTORS Lipman, Wood

RESEARCH ASSOCIATES Barsoum, Harper, Peluso, Powell, Sidner, Watanabe

 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, epidemiol-

ogy, 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

CHAIRMAN OF THE DEPARTMENT Gerald M. Fenichel, M.D.

PROFESSORS Fenichel, Freemon, Haywood, Wells

CLINICAL PROFESSORS Clark, Sproffkin, Warner

ASSOCIATE PROFESSORS Kilroy, Kirshner

ASSOCIATE CLINICAL PROFESSOR Duncan

ASSISTANT PROFESSORS Clinton, Evans, Lavin, Moore, Webb, Wiley  
 ASSISTANT CLINICAL PROFESSOR Callahan  
 INSTRUCTORS Fox, Tsai  
 CLINICAL INSTRUCTORS Kaminski, Montouris, Olson

✧ 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 for the first-year class which stresses the importance of neuroanatomy and physiology in the understanding of neurological disease, and seminars in clinical neurology for the second-year class. 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 respon-

sibility 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. Kirshner and Staff.*

## Obstetrics and Gynecology

CHAIRMAN OF THE DEPARTMENT Lonnie S. Burnett, M.D.  
 PROFESSORS Boehm, Burnett, James, Orgebin-Crist, Rabin, Wentz  
 CLINICAL PROFESSORS Bayer, Foster, Hibbett, Peerman, Sarratt  
 ASSOCIATE PROFESSOR Danzo  
 ASSOCIATE CLINICAL PROFESSOR EMERITI Tirrill  
 ASSOCIATE CLINICAL PROFESSORS Arnold, Burrus, Crook, Johnson, Millis, Tosh  
 ASSISTANT PROFESSORS Daniell, DiPietro, Entman, Fleischer, Jones, Maxson, Torbit  
 ASSOCIATE Haire  
 ASSISTANT CLINICAL PROFESSORS Birmingham, Caldwell, Chalfant, Crafton, Ellis, Gregory, Growden, Hargrove, Kling, Lamb, Lavelly, Lovvorn, Parker, Patterson, VanHooydonk  
 INSTRUCTORS Brown, Cartwright, Herbert, Pittaway, Staggs, Webster  
 ASSISTANT Garner  
 CLINICAL INSTRUCTORS Baer, Barnett, Bishop, Brakefield, Cadena, Chambers, Cothren, Davis, Dodd, Edwards, Finke, Gill, Green, Groos, Hobdy, Jones, Kline, Montgomery, Neff, Nicholas, Presley, Rice, Sanders, Sanes, Strode, Sumpter, Trabue, Walsh, Witthauer, Zimmerman  
 RESEARCH ASSOCIATES Hendry, Skudlarek

✧ 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 in-

patient and outpatient obstetrics and gynecology is obtained. One-half of the experience will be at the Nashville General Hospital. *Dr. Burnett, Dr. Boehm, and Dr. Growdon.*

## Ophthalmology

CHAIRMAN OF THE DEPARTMENT James H. Elliott, M.D.

PROFESSORS Elliott, Freeman, O'Day

CLINICAL PROFESSOR EMERITUS Smith

CLINICAL PROFESSORS Bounds, Lawrence

ASSOCIATE PROFESSORS Andrews, Feman


ASSOCIATE CLINICAL PROFESSORS EMERITI Hollabaugh, Zarfoss

ASSOCIATE CLINICAL PROFESSOR Faulk

ASSISTANT PROFESSOR Lavin

ASSISTANT CLINICAL PROFESSORS Bond, Cheij, Driver, Ezell, Frey, Lyle, Minton, Rowe, Wahl, Wesley

CLINICAL INSTRUCTORS Batchelor, Bookman, Burkhalter, Burnes, Felch, Henderson, D. Jackson, Jerkins, Jones, Loden, Lowe, McMahan, Omohundro, Paranjape, Rice, Ruark, Scobey, Smith, Terhune, Tirrill, Wayburn

 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 rou-

tinely 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 oper-

ating 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 subspecialty rotation. *Staff.*

## Orthopedics and Rehabilitation

CHAIRMAN OF THE DEPARTMENT Dan M. Spengler, M.D.

PROFESSORS Brooks, Spengler

CLINICAL PROFESSOR EMERITUS E. M. Regen (Died 9 June 1983)

CLINICAL PROFESSOR Fowler

ASSOCIATE PROFESSORS Green, Kaye, Rosenthal

ASSISTANT PROFESSORS Bugel, Limbird, Milek, Nance, Shiavi

ASSISTANT CLINICAL PROFESSORS Eyler, Gaines, Haber, Hunt, Jones, Lipscomb, Miller, Parrish, E. M. Regen, Jr.

CLINICAL INSTRUCTORS Alexander, Brothers, Bruno, Carpenter, Coker, Couden, Curtis, Doyne, Ferguson, Ferrell, Gavigan, Gaw, Hamilton, Jekot, Johnston, Jones, Lamb, Laughlin, McInnis, Miller, Norton, Rosen, Russell, Sims, Snyder, Stein, Thomas, Wampler

✦ 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'Am-brosia's textbook, *Musculoskeletal Disorders*, will be the standard text. *Dr. Milek and Staff.*

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

## Pathology

CHAIRMAN OF THE DEPARTMENT William H. Hartmann, M.D.

EMERITUS PROFESSORS Netsky, Shapiro

PROFESSORS Bedrossian, Collins, Gorstein, G. F. Gray, Hartmann, Hnilica, LeQuire, Lucas, Mitchell, Page, Stahlman

CLINICAL PROFESSORS Horn, Pribor, Womack

ASSOCIATE PROFESSORS Fields, Glick, M. E. Gray, Halter, Holscher, Meyrick, Swift, Virmani, Wallas

ASSOCIATE CLINICAL PROFESSORS Boyd, Buchanan, Delvaux, Graham, Oldham, Sohmer, Sprofskin, Thomison

ASSISTANT PROFESSORS Baxter, Bradley, Cousar, Dao, Davies, B. Davis, Haralson, Kasselberg, Light, Mrak, O'Hara, Parl, Sly, Smith, Stratton, Wong

RESEARCH ASSISTANT PROFESSOR Forbes

SENIOR ASSOCIATES Albert, Miers, Ratner, Schuffman, Timmons

ASSOCIATES Smith, Tanley

ASSISTANT CLINICAL PROFESSORS Acree, Browne, Byerly, Canale, Cave, Freeman, Hanes, Humphreys, Linnabary, Mason, Mauricio, Panlilio, Plue, Powell, Rogers, Ryden, Switter

INSTRUCTORS Abram, Jacobs, Niblack

CLINICAL INSTRUCTORS C. Davis, Lewis, Roche, Wahl, Wilson

RESEARCH ASSOCIATE Haugh

✦ 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 to second-year students in the form of lectures,

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

## *Pediatrics*

CHAIRMAN OF THE DEPARTMENT David T. Karzon, M.D.

PROFESSORS EMERITI Batson, Christie, S. Sell

PROFESSORS Altemeier, Burr, Fenichel, Graham, H. Greene, Karzon, Lawton, Lukens, Stahlman

CLINICAL PROFESSORS EMERITI Overall, Strayhorn

CLINICAL PROFESSORS Chazen, Doak

ASSOCIATE PROFESSORS Boucek, Cotton, Donald, Ghishan, N. Green, Sundell, Wright

ASSOCIATE CLINICAL PROFESSORS Beazley, Bishop, Brown, Fields, Fleet, Koenig, Lentz, Sanders, C. Sell, Thombs, Wadlington, Wheeler, Wood

ASSISTANT PROFESSORS Braren, Edwards, Evans, J. Greene, Heller, Hickson, Janco, Kasselberg, Kilroy, Kirchner, Lewis, Lorenz, MacDonell, Moran, Neblett, O'Connor, Parrish, E. Perrin, J. Perrin, Pumariega, Roloff, Shenai, VanDervoort, Vogler, Wilson

RESEARCH ASSISTANT PROFESSORS Borum, Groggaard, Lindstrom

ADJUNCT ASSISTANT PROFESSOR T. Rhea

ASSOCIATE Fitzgibbons

ASSISTANT CLINICAL PROFESSOR EMERITUS Bradley

ASSISTANT CLINICAL PROFESSORS Carney, Cassell, Dubuisson, Gomez, Greenbaum, Henry, Hirshberg, Long, Mallard, Massoud, Morgan, Price, Rojas-Brasesti, Steranka, Taber, Turner, Walker, Whitworth, Wilkinson, Zerfoss

INSTRUCTORS Fie, Lee

RESEARCH INSTRUCTORS MacLean

ASSISTANTS Joseph, Major, J. Thompson, S. Thompson

CLINICAL INSTRUCTORS Bishop, Bone, Burr, Clark, Craft, Critz, Douthitt, Dundon, Gray, Hutcheson, Kauder, Kirby, Martin, Meneely, Moroney, Moss, Najjar, Nemecek, Netterville, North, Olson, Pierce, Pincus, K. Rhea, Robinson, Sanders, Shackelford, Slonecker, Spencer, Stilwell, Tate, Wiggins, Wurtsbaugh

RESEARCH ASSOCIATE Sharp

✦ 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; pediatrics ward rounds; an introduction to clinical pediatrics; nutri-

tion 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 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 sub-specialties, 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 Clerkship or Clinics.** During the fourth students take one clerkship in general pediatrics or one of the pediatric subspecialties or three clinics in either area. *Staff.*

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

## Pharmacology

CHAIRMAN OF THE DEPARTMENT Joel G. Hardman, Ph.D.

PROFESSORS EMERITI Bass, Bush

PROFESSORS Branch, Chapman, Dettbarn, Garbers, Hardman, Oates, Sanders-Bush, Sastry, Sulser, Wilkinson

ASSOCIATE PROFESSORS Berman, Hande, Kuczenski, Landon, L. Limbird, Ray, Reed, Roberts, D. Robertson, Schmidt, Watterson, Wells, A. Wood, Woosley


VISITING ASSOCIATE PROFESSOR Suzuki

RESEARCH ASSOCIATE PROFESSOR Sweetman

ASSISTANT PROFESSORS Barrett, Brash, Buxbaum, FitzGerald, Hubbard, Jackson, Leith, Ogletree, Roden, Uetrecht, VanEldik, M. Wood



ADJUNCT ASSISTANT PROFESSOR Kramer  
 INSTRUCTOR Wiley  
 RESEARCH INSTRUCTORS Gerzer, Koshakji, Lukas, Swarup

 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 drug receptor interactions. 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

INTERIM CHAIRMAN OF THE DEPARTMENT Charles Rawlinson Park, M.D.

EMERITUS PROFESSOR C. R. Park

PROFESSORS Cherrington, Corbin, Exton, Garbers, Kono, Meng, J. Park, Pilkis, Post, Regen

ASSOCIATE PROFESSORS Brigham, Crofford, Johnson, Orth, Soderling

VISITING ASSOCIATE PROFESSOR Loten

ASSISTANT PROFESSORS Najj Abumrad, Beth, Blackmore, Burr, Chrisman, El-Maghrabi,


Flockhart, Francis, Harrison, Khatra, Rannels, K. Steiner

RESEARCH ASSISTANT PROFESSOR Venkataramu

INSTRUCTORS Nada Abumrad, Jett, Prpic, Robinson-Steiner, Schraw, Sheorain, Stevenson

RESEARCH ASSOCIATES Beebe, Hughes, Imazu, Jazarevic, Morgan, Murray, North,

Nyfelner, Schworer, Tabak, Ueda, Uhing, Whitesell

 THE Department of Physiology instructs first-year students in the essentials of physiological processes related to organs, tissues, and cells. Students may devise course work in any area of physiology, in conjunction with a sponsoring faculty member. 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 physiol-


ogy 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

CHAIRMAN OF THE DEPARTMENT William Schaffner, M.D.  
 EMERITUS PROFESSOR R. W. Quinn  
 PROFESSORS Lefkowitz, Schaffner  
 ASSOCIATE CLINICAL PROFESSORS Fowinkle, Nesor  
 ASSISTANT PROFESSOR EMERITUS Williams  
 ASSISTANT CLINICAL PROFESSORS Bistowish, Sanders, Turner  
 CLINICAL INSTRUCTORS Bodner, Derryberry, Hutcheson

### Biostatistics

DIRECTOR OF THE DIVISION William K. Vaughn, Ph.D.  
 PROFESSOR Federspiel  
 ASSOCIATE PROFESSOR Vaughn  
 ASSISTANT PROFESSOR Dupont  
 RESEARCH ASSISTANT PROFESSOR Ray

 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 for second-year students. FALL. Dr. Lefkowitz.

**502. Medical Statistics.** The course is introduced with 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. Regular weekly one hour lectures closely follow and supplement the material contained in

Colton's textbook. *Statistics in Medicine*. SPRING. Dr. Federspiel.

**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. Lefkowitz.

## Psychiatry

CHAIRMAN OF THE DEPARTMENT Michael H. Ebert, M.D.  
 EMERITUS PROFESSORS Hollender, Orr  
 PROFESSORS Ban, Castelnovo-Tedesco, Ebert, Ford, Mathew, Roback, Webb, Wells  
 CLINICAL PROFESSOR EMERITUS Billig  
 ASSOCIATE PROFESSORS Crowder, Dozier, Guy, Nash, Rabin  
 ASSOCIATE CLINICAL PROFESSOR EMERITA Kirk  
 ASSOCIATE CLINICAL PROFESSORS Adams, Barton, Corbin, Crecraft, Fishbein, Kyger, McKee, Petrie, Reed, Smith, Stevens, Treadway  
 ASSISTANT PROFESSOR EMERITA L. Williams  
 ASSISTANT PROFESSORS Adelson, Arnold, Brennan, Gaskins, Kelly, Kourany, LaBarbera, Lewis, Logan, Manov, Martin, Nicassio, Pumariega, Weinberg, Wilson  
 RESEARCH ASSISTANT PROFESSOR Prakash  
 ASSISTANT CLINICAL PROFESSORS Abisellan, Asher, Barr, Brackin, M. L. Campbell, T. W. Campbell, Coopwood, Filley, Green, Griffin, Hamilton, Horton, Isaacs, Jamieson, Jordan, Kenner, Lawson, Leavell, McFerrin, McGehee, Morgan, Nyquist, Pate, Pieper, Ragheb, Reynolds, Schendel, Snow, Stevens, Swenson, E. Vorbusch, M. A. Williams, Winston, Zimmerman  
 INSTRUCTOR Rappaport  
 ASSISTANTS Barrett, Beehan, Longwood  
 CLINICAL INSTRUCTORS Parrott, Sampson, Sheridan, H. Vorbusch, Workman  
 LECTURER Sylte

## Human Behavior

HEAD OF THE DIVISION Virginia Abernethy, Ph.D.  
 PROFESSORS Abernethy, Pate  
 ASSISTANT CLINICAL PROFESSOR Bruehl

## Affiliated Faculty

DISTINGUISHED PROFESSOR Strupp  
RESEARCH ASSOCIATE PROFESSOR Binder

✧ 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: determinants of human behavior; human sexuality; school health programs; health and illness, doctors and patients; behavior therapy in a medical setting; and children's problems in contemporary society. 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 patients 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. Rabin*

**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 environmental 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

CHAIRMAN OF THE DEPARTMENT A. Everette James, Jr., Sc.M., M.D., J.D.

PROFESSORS Allen, Heller, James, Kaye, Kirchner, Pendergrass, Siegel

CLINICAL PROFESSOR EMERTUS Ivie

ADJUNCT PROFESSOR Rollo

ASSOCIATE PROFESSORS Boehm, Erickson, Gibbs, Malcolm, Mazer, Partain, Patton, R. R. Price, Shaff, Winfield

ADJUNCT ASSOCIATE PROFESSOR Coulam, Freedman

ASSOCIATE CLINICAL PROFESSORS Beveridge, DeBlanc, Duncan, Eassa, Millis, Overfield, Payne

ASSISTANT PROFESSORS Al-Abdulla, Carroll, Chen, Diggs, Fleischer, Freeman, Johnson, Jones, Kronenberg, Kulkarni, Nance, Pickens, Powers, A. C. Price, Sandler, Thieme, Witt  
SENIOR ASSOCIATE Stephens

ASSOCIATE Clanton

ADJUNCT ASSISTANT PROFESSORS Bush, Pujol

ASSISTANT CLINICAL PROFESSORS Addestone, Balfour, Bolin, Brown, Francis, Grant, Grove, Himmelfarb, Moyers, Patterson, Stroup

INSTRUCTOR Fertman

CLINICAL INSTRUCTORS Farrar, Greer, Howerton, Linn, Ownbey, Rutledge, Seshul, Tanner

✦ THE Department of Radiology and Radiological Sciences introduces the discipline of radiology to medical students during their first-year 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 second-year course Methods in Clinical Science, department members conduct small group seminars correlating physical diagnostic signs with roentgen findings. In the third year students attend departmental presentations as a part of their clinical rotations and discuss the use of appropriate imaging modalities including computerized axial tomography, nuclear medicine, and ultrasound in diagnostic evaluation.

Fourth-year 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 risk 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

### *General Surgery*

CHAIRMAN OF THE DEPARTMENT John L. Sawyers, M.D.

EMERITUS PROFESSOR Scott

PROFESSORS Davies, Dean, Gobbel, Meng, O'Leary, Richie, Sawyers

CLINICAL PROFESSORS EMERITI Benz, Rosenfeld

CLINICAL PROFESSORS Byrd, Dale, Edwards, Herrington, Riddell

ASSOCIATE PROFESSORS Abumrad, Adkins, P. Noel, Reynolds

ASSOCIATE CLINICAL PROFESSORS Graves, Harris, Jacobs, Lewis

ASSISTANT PROFESSORS Alcantara, Bomar, Johnson, Kelsick, Meacham, B. M. Smith, Tallent

ASSISTANT CLINICAL PROFESSOR EMERITUS Gardner

ASSISTANT CLINICAL PROFESSORS Bernard, Crane, Dennison, Duncan, Elrod, Farringer, Gessler, Johnston, Mulherin, O. Noel, Pennington, Pickens, Sadler, Shoulders, Waterhouse

INSTRUCTOR Blouin

CLINICAL INSTRUCTORS Allen, Ballinger, Bone, Classen, Crane, Davis, Fisher, Hammonds, Hardin, Ikard, Lester, McConnell, McMurray, Miller, Minch, Nelson, Renfro, Robbins, Terry, Wright

### *Dentistry*

INTERIM CHAIRMAN OF THE DEPARTMENT H. David Hall, D.M.D., M.D.

PROFESSOR Hall

CLINICAL PROFESSOR Carney

ASSISTANT PROFESSORS Gibbs, Shuford, Tyson

ASSISTANT CLINICAL PROFESSOR EMERITUS F. H. Hall

ASSISTANT CLINICAL PROFESSORS Berkon, Clark, Crockett, DePierri, Hutcheson, Linberger, Medwedeff

INSTRUCTOR Greenwood

CLINICAL INSTRUCTORS Adams, Baylor, Harris, King, Parker

### *Neurosurgery*

CHAIRMAN OF THE DEPARTMENT William F. Meacham, M.D., L.H.D.

CLINICAL PROFESSORS Cobb, Meacham

ASSOCIATE CLINICAL PROFESSORS Hester, Meierowsky

ASSISTANT CLINICAL PROFESSORS Bond, Howell, Scheibert

CLINICAL INSTRUCTORS V. A. Allen, V. E. Allen, Cushman, Hays, McPherson, Smith

## *Oral Surgery*

CHAIRMAN OF THE DEPARTMENT H. David Hall, D.M.D., M.D.  
PROFESSOR Hall  
CLINICAL PROFESSOR Banks  
ASSOCIATE CLINICAL PROFESSORS Hill, Martin  
ASSISTANT CLINICAL PROFESSORS Ladd, Nickerson, Roddy, Schmitt, Williams

## *Otolaryngology*

CLINICAL PROFESSOR EMERITUS Kennon  
CLINICAL PROFESSOR Glasscock  
ASSOCIATE CLINICAL PROFESSOR Gowda  
ASSISTANT CLINICAL PROFESSORS Alley, Bryan, Crook, Dixon, Downey, Harris, Hightower, Holzen, Jackson  
CLINICAL INSTRUCTORS Casparis, Cate, Davis, Moore, Owen

## *Pediatric Surgery*

CLINICAL PROFESSOR Holcomb  
ASSISTANT PROFESSOR Neblett

## *Plastic Surgery*


CHAIRMAN OF THE DEPARTMENT John Brown Lynch, M.D.  
PROFESSOR Lynch  
CLINICAL PROFESSOR Ricketson  
ASSOCIATE CLINICAL PROFESSORS Bowers, Todd  
ASSISTANT PROFESSORS Hagan, Rees, Shack  
ASSISTANT CLINICAL PROFESSORS Buckspan, Fleming, Hutcheson, MacMillan, Madden, Maxwell, Orcutt  
INSTRUCTOR Nanney  
CLINICAL INSTRUCTORS Bueno, Patikas

## *Thoracic and Cardiac Surgery*

CHAIRMAN OF THE DEPARTMENT Harvey W. Bender, Jr., M.D.  
PROFESSORS Bender, Sawyers  
CLINICAL PROFESSORS Edwards, Stoney  
ASSOCIATE CLINICAL PROFESSORS Harris, Jacobs  
ASSISTANT PROFESSOR Hammon  
ASSISTANT CLINICAL PROFESSORS Alford, Brown, Burrus, Glassford, Thomas

## Urology Sciences

INTERIM CHAIRMAN OF THE DEPARTMENT Frederick K. Kirchner, Jr., M.D.  
 ASSOCIATE PROFESSOR EMERITUS Shelley  
 ASSOCIATE PROFESSORS Braren, Stone, Teschan  
 ASSOCIATE CLINICAL PROFESSORS EMERITI Barksdale, Douglass, Haines  
 ASSOCIATE CLINICAL PROFESSOR Porch  
 ASSISTANT PROFESSORS Kirchner, Turner, Winfield  
 ASSISTANT CLINICAL PROFESSORS Carter, Crenshaw, Isenhour, McClellan, Nesbitt, Tudor  
 CLINICAL INSTRUCTORS Barnett, Brock, Eckstein, Edwards, Faber, Furman, Hagan, Morgan, Sewell, Trapp, Warner, Workman

 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 and Veterans Administration Hospital. Third-year surgical clerks also participate in a series of clinical case presentations. Fourth-year students are required to have one month of senior clerkship in general surgery or another surgical specialty.

Electives offered to students at various levels include such courses as: 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*



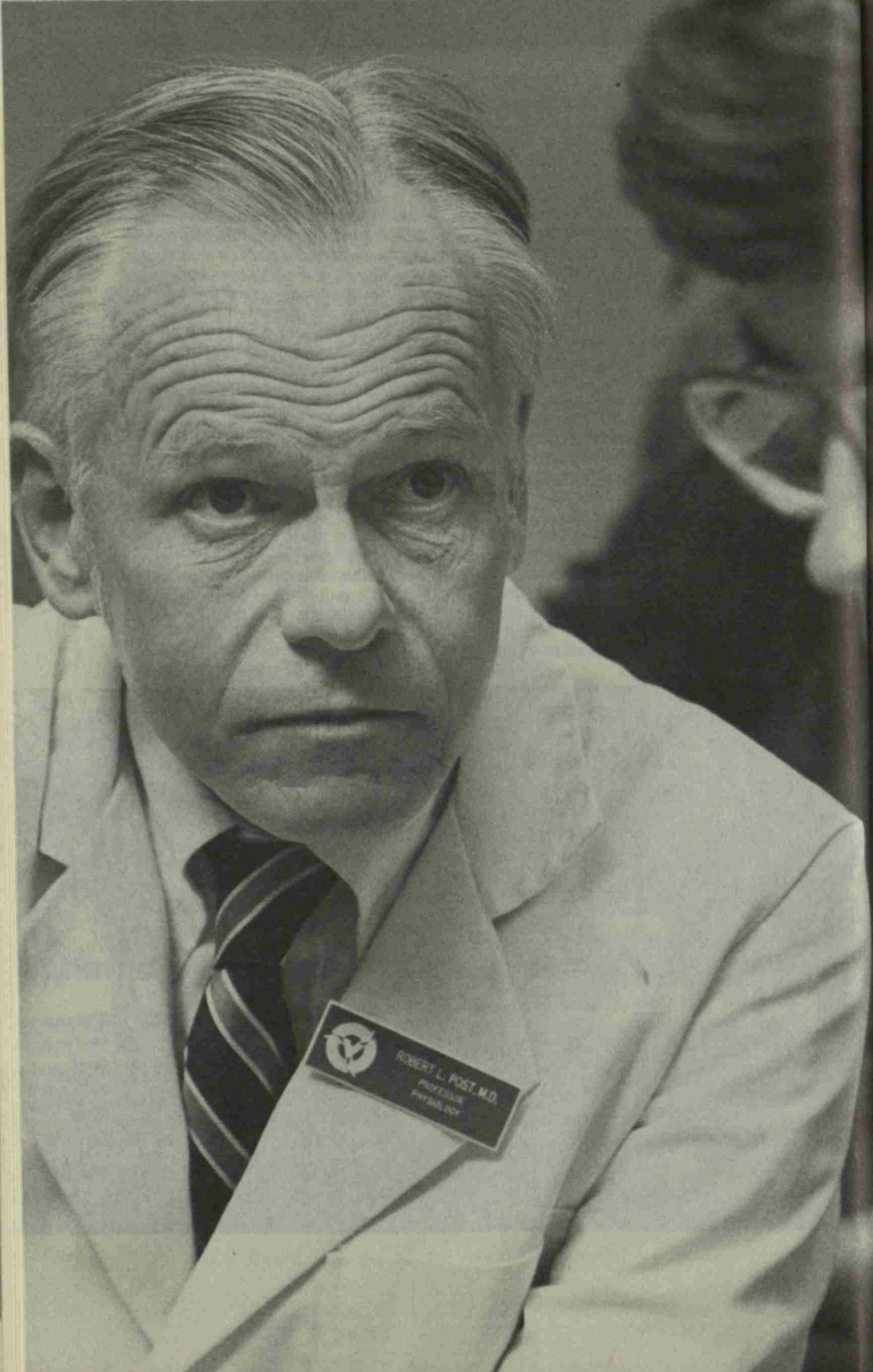
Medicine; Dr. Hartmann and members of the Department of Pathology; Dr. Karzon and members of the Department of Pediatrics; Dr. Sawyers and members of the Department of Surgery; Dr. Burnett and members of the Department of Obstetrics & Gynecology; members of the departments of Anatomy, Biochemistry, Pharmacology, 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 or Veterans 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 oncology, vascular, and pediatric services. The other five weeks of the clinical assignment provide brief but concentrated rotations to services in neurosurgery, urology, ophthalmology, plastic—head and neck—and cardiac and thoracic surgery. These rotations provide exposure to a vari-

ety 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 conducted in the S.R. Light Laboratory for Surgical Research by the Department of Surgery.

**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. Staff.





ROBERT L. POST, M.D.  
PROFESSOR  
PHYSIOLOGY

# Faculty of the School of Medicine



- VIRGINIA D. ABERNETHY, Professor of Psychiatry (Anthropology) and Head of the Division of Human Behavior; Senior Research Associate, Institute for Public Policy Studies  
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- GENE W. BRATT, Assistant Clinical Professor of Audiology  
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- LAWRENCE G. SCHULL, Associate Clinical Professor of Anesthesiology  
B.A., M.D. (Vanderbilt)
- HERBERT J. SCHULMAN, *Clinical Instructor in Medicine*  
B.A., M.D. (Vanderbilt)
- DAWSON S. SCHULTZ, Instructor in Medicine (Philosophy)  
B.A. (Trinity University); M.A. (University of Washington); M.A., Ph.D. (Vanderbilt)
- JOHN ROBERT SCHWEIKERT, *Clinical Instructor in Medicine*  
B.S. (Purdue); M.D. (Vanderbilt)
- CHARLES M. SCHWORER, Research Associate in Physiology  
B.S. (Lebanon Valley); M.S., Ph.D. (Pennsylvania State)
- JOSEPH W. SCOBAY, *Clinical Instructor in Ophthalmology*  
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- H. WILLIAM SCOTT, JR., *Professor of Surgery, Emeritus*  
B.A. (North Carolina); M.D. (Harvard); D.Sc. (hon. Aberdeen)
- ADDISON B. SCOVILLE, JR., *Clinical Professor of Medicine; Executive Director, Alumni Services and Professional Relations*  
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- SARAH H. SELL, *Professor of Pediatrics, Emerita*  
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- ROBERT SELLERS, Research Associate in Anatomy  
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- JOHN S. SERGENT, *Associate Clinical Professor of Medicine; Director of the Multipurpose Arthritis Center*  
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- ROBERT A. SEWELL, *Clinical Instructor in Urology*  
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- R. BRUCE SHACK, *Assistant Professor of Plastic Surgery*  
B.S. (Midwestern); M.D. (Texas, Galveston)
- E. CONRAD SHACKLEFORD, JR., *Clinical Instructor in Pediatrics*  
M.D. (Tennessee)
- MAX ISRAEL SHAFF, *Associate Professor of Radiology*  
M.D. (Witwatersrand)
- JOHN L. SHAPIRO, *Professor of Pathology, Emeritus*  
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- JAMES PAUL SHEA, *Research Associate in Biochemistry*  
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- J. R. SHELLER, *Assistant Professor of Medicine*  
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- HARRY S. SHELLEY, *Associate Professor of Urology, Emeritus; Honorary Curator of the Historical Collection in the Medical Center Library*  
B.S. in E. (Drexel Institute of Technology); M.D. (Maryland)
- JAYANT P. SHENAI, *Assistant Professor of Pediatrics; Adjunct Assistant Professor of Maternal Infant Nursing, School of Nursing*  
M.B., B.S., M.D. (Seth G. S. Medical College [Bombay])
- VIRENDER S. SHEORAIN, *Instructor in Physiology*  
B.S. (Panjab [Chandigarh]); M.S. (Hissar); Ph.D. (Panjab [Chandigarh])
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M.Pharm., Ph.D. (Kyushu)
- HARRISON H. SHOULDERS, JR., *Assistant Clinical Professor of Surgery*  
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- RICHARD SIDNER, *Research Associate in Microbiology*  
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- EDWARD SIEGEL, *Professor of Radiology; Professor of Physics, College of Arts and Science (On leave fall semester)*  
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- DAVID J. SWITTER, Assistant Clinical Professor of Pathology  
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- AGNES SYLTE, Lecturer in Psychiatry  
R.N.
- MARCEL TABAK, Research Associate in Physiology  
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- RICHARD P. TABER, Assistant Clinical Professor of Pediatrics  
M.D. (Rochester)
- MARION B. TALLENT, JR., Assistant Professor of Surgery  
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D.V.M. (Kitasato); Ph.D. (Azabu)
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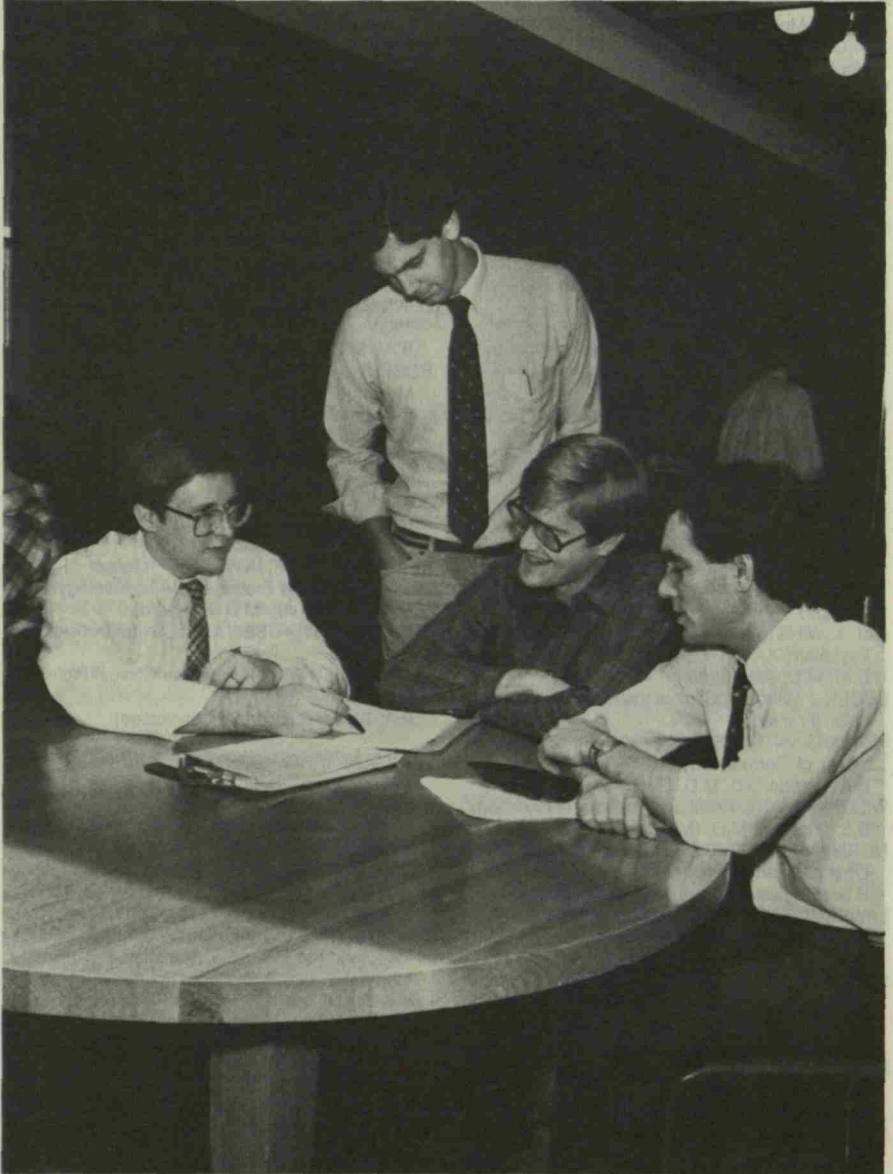
- B.Sc., M.Sc., (Mysore); Ph.D. (Indian Institute of Science [Bangalore])
- RENU VIRMANI, Associate Professor of Pathology  
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- WILLIAM H. WILSON, Assistant Professor of Psychiatry (Clinical Psychology)  
B.A. (Arkansas); M.A., Ph.D. (Vanderbilt)
- ALAN C. WINFIELD, Associate Professor of Radiology; Assistant Professor of Urology  
B.S. (Pittsburgh); M.D. (Hahnemann Medical College)
- NAT T. WINSTON, Assistant Clinical Professor of Psychiatry  
B.A., M.D. (Vanderbilt)
- EUGEN J. WINTER, Clinical Instructor in Medicine  
M.D. (Frankfort)
- FRANK G. WITHERSPOON, Assistant Clinical Professor of Dermatology  
B.A. (Vanderbilt); M.D. (Tennessee)
- WILLIAM S. WITT, Assistant Professor of Radiology  
B.S. (Florida); M.D. (Meharry)
- NORMAN E. WITTHAUER, Clinical Instructor in Obstetrics and Gynecology  
B.S. (Mississippi Southern); M.D. (Tulane)
- LAWRENCE K. WOLFE, Associate Clinical Professor of Medicine  
B.A., M.D. (Vanderbilt)
- STEVEN N. WOLFF, Assistant Professor of Medicine  
B.A. (City University of New York, Queens); M.D. (Illinois)
- FRANCES C. WOMACK, Research Assistant Professor of Microbiology (On leave 1983/84)  
B.A., M.A., Ph.D. (Vanderbilt)
- FRANK C. WOMACK, Clinical Professor of Pathology  
B.A., M.D. (Vanderbilt)
- SONG WIN WONG, Assistant Professor of Pathology (On leave 1983/84)  
M.B., B.S., (Rangoon Medical College)
- ALASTAIR J. J. WOOD, Associate Professor of Medicine; Associate Professor of Pharmacology  
M.B., Ch.B. (St. Andrews [Scotland])
- G. WALLACE WOOD, Associate Clinical Professor of Pediatrics  
B.A., M.D. (Vanderbilt)
- MARGARET WOOD, Associate Professor of Anesthesiology; Assistant Professor of Pharmacology  
M.B., Ch.B. (St. Andrews [Scotland])
- MAYME L. BLANKENSHIP WOOD, Research Instructor in Microbiology  
B.S. (Peabody)
- RAYMOND L. WOOSLEY, Associate Professor of Medicine; Associate Professor of Pharmacology  
B.S. (Western Kentucky); Ph.D. (Louisville); M.D. (Miami [Florida])
- CLAUDE H. WORKMAN III, Clinical Instructor in Urology  
B.S. (Southwestern at Memphis); M.D. (Vanderbilt)
- DENNIS C. WORKMAN, Clinical Instructor in Psychiatry  
B.A., M.D. (Vanderbilt)
- ROBERT J. WORKMAN, Assistant Professor of Medicine  
A.B. (Princeton); M.D. (Harvard)
- TAYLOR WRAY, Clinical Instructor in Medicine  
B.A. (University of the South); M.D. (Johns Hopkins)
- JOHN K. WRIGHT, Clinical Instructor in Surgery  
B.S. (Tennessee Technological); M.D. (Tennessee)
- PETER F. WRIGHT, Associate Professor of Pediatrics; Assistant Professor of Microbiology  
B.A. (Dartmouth); M.D. (Harvard)
- J. ANTHONY WURTSBAUGH, Clinical Instructor in Pediatrics
- JOHN LANIER WYATT, Assistant Clinical Professor of Medicine  
B.A. (Vanderbilt); M.D. (Tennessee)
- UNG SUK YANG, Visiting Assistant Professor of Medicine  
M.D., Ph.D. (Busan National)
- CHRISTINA M. YNARES, Clinical Instructor in Medicine  
B.S., M.D. (Philippines)
- RICHARD M. ZANER, Professor of Medicine (Philosophy); Ann Geddes Stahlman Professor of Medical Ethics; Professor of Philosophy, College of Arts and Science; Adjunct Professor of Health Ethics in Nursing, School of Nursing; Senior Research Associate, Institute for Public Policy Studies  
B.S. (Houston); M.A., Ph.D. (New School for Social Research)
- KATE SAVAGE ZERFOSS, Associate Clinical Professor of Ophthalmology, Emerita  
B.S. (Vanderbilt); M.D. (Tulane)
- THOMAS BOWMAN ZERFOSS, Clinical Professor

of Medicine, Emeritus, and Director, Emeritus,  
Student Health Service  
B.S., M.D. (Vanderbilt)  
THOMAS B. ZERFOSS, JR., Assistant Clinical Pro-  
fessor of Pediatrics  
B.A., M.D. (Vanderbilt)

CARL W. ZIMMERMAN, Clinical Instructor in  
Obstetrics and Gynecology  
B.S. (Peabody); M.D. (Tennessee)  
GUY ZIMMERMAN, Assistant Clinical Professor of  
Psychiatry  
B.A., M.D. (Vanderbilt)



# Register of Students 1982-83

## First-Year Class

BESS APPERSON ADKINS (B.S., Vanderbilt)	Nashville, TN
NEWTON PERKINS ALLEN, JR. (B.S., Davidson)	Memphis, TN
MARK WEBSTER ALLEY (B.S., Emory and Henry)	Kingsport, TN
DOUGLAS CARLTON ALTENBERN, JR. (B.A., Mississippi)	Brentwood, TN
JOHN EUGENE ANDERSON (B.A., Virginia)	Nashville, TN
KYLE RAYMOND ANDERSON (B.S., Oklahoma State)	Fort Smith, AR
PHILIP BRADLY ANDERSON (B.S., Oregon)	Brownsville, OR
THOMAS CHARLES ANDREWS (B.S., Vanderbilt)	Canton, IL
ROBIN SUE ARCHER (B.S., Dayton)	Fairborn, OH
JEFFREY LAWRENCE BALLARD (B.S., Stanford)	Fullerton, CA
JENNIFER LYNN BELL (A.B., Michigan)	Nashville, TN
SCOTT EUGENE BINGHAM (B.A., Utah)	Santa Rosa, CA
ELIZABETH ANN BIRECREE (B.S., George Peabody)	Lake Grove, NY
PATRICIA ANN BRISCOE (B.A., Oregon)	Salem, OR
DAVID HUNTER BROWN (B.A., Emory)	Fort Myers, FL
MARTIN ALAN BURNS (B.S., Vanderbilt)	Macon, GA
ROBERT WILLIAM CAIN (B.A., Southwestern at Memphis)	Damascus, MD
THOMAS HOWARD CALLAWAY (B.A., Duke)	Maryville, TN
DAVID BRET CHALPIN (A.B., Harvard)	Brookline, MA
TERESA TWILA CHARNIGA (B.S., Arizona State)	Scottsdale, AZ
EDUARDO MANGAY CHUNG (B.A., Yale)	Granada Hills, CA
MICHAEL STEVEN CITAK (B.A., Texas Tech)	Park Forest, IL
CLAUDIA LOU CLOPTON (B.S., Southwestern at Memphis)	Jonesboro, AR
GREGORY LLOYD COMBS (B.S., Colorado State)	Silver Spring, MD
THOMAS EDWARD CONTURO (B.A., Pennsylvania)	Pittsburgh, PA

JOHN LEONARD COOPER (B.A., Reed)	Hawthorne, CA
DEIRDRE HUNTER DONALDSON (B.A., Yale)	Woodbridge, CT
DOUGLAS WAYNE DOTHAGER (B.S., Southern Illinois, Edwardsville)	Godfrey, IL
MARCIA JUNE EGLES (B.S., Eastern Nazarene)	Holbrook, MA
BETH ANN EHRENFRIED (B.A., Duke)	Rome, NY
MARY ANN ELLIS (B.S., Oregon State)	Bend, OR
WILLIAM MYRON FERRIN III (A.B., Stanford)	Bend, OR
RANDALL PARKS FRAZIER (B.E., Vanderbilt)	Germantown, TN
R. EVERETT FRERICHS (B.S., Nebraska Wesleyan)	Beatrice, NE
SUSAN GAY GLOVER (B.A., Agnes Scott)	Tullahoma, TN
THOMAS JOSEPH GRABOWSKI (B.A., Vanderbilt)	Roseville, CA
DAVID WILLIAM GRAMBOW (B.S., Wisconsin, Milwaukee)	Cudahy, WI
JAMES RONALD GRAY, JR. (B.S., Tennessee)	Oak Ridge, TN
RICHARD MATTHEW GRAY (B.A., Vanderbilt)	Lewisburg, PA
KELLI CHARNELL GREEN (B.A., Yale)	Clinton, TN
SANDRA KAY GUSTAD (B.S., South Dakota State)	Volin, SD
JEFFREY EVANS HAZLEWOOD (B.S., Southwestern at Memphis)	Jackson, TN
MICHAEL JAMES HERHUSKY (B.S., California, Davis)	Olympic Valley, CA
ROLAND ARTHUR HESTER IV (B.S., Alabama)	Montgomery, AL
STEVEN ELLIS HILL (B.A., Duke)	Clinton, TN
LINDA HUMPHREYS (B.A., Tennessee, Nashville)	Brentwood, TN
THOMAS RUSSELL HUNT III (B.S., Stanford)	Shawnee Mission, KS
STEVEN ALLEN HUTTO (B.A., Illinois, Urbana)	Bellflower, IL
STUART MARK JACOBSON (B.S., McGill)	Poughkeepsie, NY
CHARLES WEST JACOBS IV (B.S., South Carolina)	Columbia, SC
ROBERT DOUGLAS JAQUISS (B.A., Wabash)	New Harmony, IN

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JOHN AMIS JERNIGAN (B.S., Southwestern at Memphis)	Kingsport, TN
JOYCE EVELYN JOHNSON (B.A., Rice)	Nashville, TN
DAN TODD JOHNSTON (B.S., North Dakota State)	Fargo, ND
AMY MEREDITH JOSEPH (B.A., Redlands Johnstown)	Saint Louis, MO
RAUL KARELL (Inter American, Hato Rey)	San Juan, PR
JULIE ROBIN LANGE (B.S., Georgia Institute of Technology)	Atlanta, GA
JILL JEAN LEGG (B.S., Arizona, Tucson)	Tucson, AZ
RACHEL KATHERINE LENOX (B.S., Purdue, West Lafayette)	Beaver Falls, PA
CHARLES EDWARD LEONARD II (B.A., Vanderbilt)	Jackson, MS
KRISTEN MAURA LEVITAN (B.A., Williams)	San Francisco, CA
CRAIG HARRISON LINGER (B.A., Colorado)	Louisville, KY
ALEXANDER LOCKE III (B.A.S., A.M., Stanford)	Sacramento, CA
MATTHEW ALAN LOVITT (A.B., Stanford)	Pasadena, CA
WHITSON LOWE (B.A., Yale)	Cookeville, TN
STEVEN COURTNEY LYNCH (B.S., United States Air Force Academy)	Morristown, TN
JAMES EVANS LYNE (B.E., Vanderbilt; M.S., Stanford)	Nashville, TN
JOHN WITHERSPOON MACEY, JR. (B.A., Vanderbilt)	Nashville, TN
JOHN VICTOR MARYMONT (B.A., Northwestern)	Wichita, KS
ROBERT DEAN MATTHEWS (B.S., Alabama)	Jasper, AL
DANIEL CHARLES MAYES (B.A., California)	Redmond, OR
CYNTHIA ELIZABETH MAYFIELD (B.S., Illinois, Urbana)	Cantrall, IL
ROBERT WALLACE McCLURE (B.S., David Lipscomb)	Waverly, TN
JOEL EMERY McCULLOUGH (A.B., Stanford)	Charlotte, NC
EDWARD JAMES McPHERSON (B.S., California, Irvine)	Bakersfield, CA
DANIEL RICHARD MITCHELL (B.E., Vanderbilt)	Topeka, KS
DIANE ELIZABETH OLIVER (B.S., University of Washington)	Bethesda, MD

CHRISTOPHER KENNERLY PAYNE (B.A., Virginia)	Somerville, NJ
RAY STOKES PEEBLES, JR. (B.S., Davidson)	Concord, TN
CHARLES GORDON PEERMAN III (B.A., Virginia; M.Div., Yale)	Nashville, TN
MICHAEL PIRKOWSKI (B.S., Notre Dame)	Linden, NJ
MARK PUDER (B.S., Midwestern State)	Wichita Falls, TX
RICHARD EPES RAINEY (A.B., Harvard)	Petersburg, VA
JACQUELYN VALERIE RAVAN (B.S., Vanderbilt)	Dunwoody, GA
NEAL EDWARD READY (B.S., Massachusetts, Amherst)	Somerset, MA
MAYME FLORENCE RICHIE (B.S., Vanderbilt)	Nashville, TN
CARLTON FRIEDRICH ROOS (B.A., Vanderbilt)	Nashville, TN
LAWRENCE RAYMOND SHOEMAKER (B.S., Birmingham Southern)	Huntsville, AL
MICHAEL ORLANDO SHOEMAKER (B.S., Birmingham Southern)	Huntsville, AL
JON FOE SNIDER (B.A., Dartmouth)	Fort Smith, AR
PRENTICE DAVID STEFFEN (Oklahoma, Norman)	Enid, OK
SCOTT ANDREW STRELOW (B.A., Covenant)	Bentwood, MO
DEEANN MARIE STROOP (B.A., Virginia)	Fairfax Station, VA
ROGER LYNN SWINGLE, JR. (B.S., Georgia)	Athens, GA
GRACE PORTERFIELD TEAL (B.A., Washington University)	Lincoln, NE
SALLY ANNE THOMAS (B.S., Arizona State)	Tempe, AZ
ANNE MARIA TIMMERMAN (A.B., Smith)	Fort Thomas, KY
DAVID SCOTT TROCHTENBERG (B.A., Brown)	Creve Coeur, MO
RHONDA RENEE VOSKUHIL (B.S., Phillips)	Hennessey, OK
GREGORY WILSON WELCH (A.B., Missouri)	Kansas City, MO
BRIAN MACY WICKWIRE (B.A., Western Maryland; M.S., Auburn)	Towson, MD
JORY DAVID WILLIAMS (B.A., Rollins)	Orlando, FL
JOSEPH JOHN WUJEK (B.A., Westmont)	Livermore, CA

LUCH LO-HWA YANG  
(A.B., M.A., California)

**Second-Year Class**

GLORIA BETH ABELS  
(B.A., Wake Forest)

TIM EUGENE ADAMSON  
(B.S., Oregon State)

NANCY CAROL ALLEN  
(B.A., Tennessee)

JEFFREY PETER ALPERT  
(B.S., Yale)

STEVEN ALLEN BARRINGTON  
(B.S., United States Air Force Academy)

ROBERT STEVEN BASS  
(B.S., Florida)

KENNETH EUGENE BERKOVITZ  
(B.S., Purdue)

GEORGE BLAINE BISHOP, JR.  
(B.S., Bryan)

MICHAEL LAWRENCE BLEI  
(B.S., College of Idaho)

SHARON SUE BLOOM  
(B.S., Stanford)

LAURA LYNNE BOEHLKE  
(B.S., Minnesota)

THOMAS JOHN BOLAND  
(B.S., Pennsylvania State; D.M.D., Pennsylvania)

WESLEY RONALD BROWN  
(B.A., Utah)

THOMAS SMILEY BURGOON  
(B.S., Villanova)

TIMOTHY ALAN BURKE  
(B.S., Emory)

MICHAEL GLENN CARLSON  
(B.A., Illinois Wesleyan)

JEFFREY CHARLES CARLTON  
(B.E., Vanderbilt)

KAREN ALICE CLEMENCY  
(B.S., State University of New York, Buffalo)

JOHN FRANKLIN COOPER  
(B.A., Indiana, Purdue)

SUSAN PATRICIA DAVIS  
(B.A., Harvard)

BRUCE ALAN DAVISON  
(B.A., Rutgers)

JOSEPH DEMAY  
(B.A., Illinois Wesleyan)

STEVEN DON  
(B.A., Johns Hopkins)

LOUIS GEORGE DUSSEAULT  
(B.A., Tufts)

New York, NY

(B.S., Boston)

Gallipolis, OH

Edmonds, WA

Oak Ridge, TN

New York, NY

Austin, TX

Clewiston, FL

West Lafayette, IN

Concord, TN

Twin Falls, ID

Golden Valley, MN

White Bear Lake, MN

Conynghagan, PA

Rochester, NY

Chesterspring, TN

Griffin, GA

Lockport, IL

Watrace, TN

Amherst, NY

Mobile, AL

Tenafly, NJ

Maplewood, NJ

Raymond, IL

Glencor, IL

Palmer, MA

MARK WILLIAM ELLIOTT (B.S., Butler)	Clarksville, IN
TAHSIN MARK ERGIN (B.S., Boston)	West Hartford, CT
THOMAS JAY FAILINGER (B.A., Vanderbilt)	Cohasset, MA
ROBERT VITO FARESE, JR. (B.S., Florida)	Tampa, FL
FRANCIS MILLER FESMIRE, JR. (A.B., Harvard)	Chattanooga, TN
JAMES ALLMON FLATT (B.A., Vanderbilt)	Riceville, TN
FREDDIE LEE FLETCHER (B.A., Harvard; M.S., Alabama Agriculture and Mechanical)	Huntsville, AL
DOUGLASS WILLIAM FORSHA (B.A., Brigham Young)	Leads, UT
ROBERT LOUIS FORTI (B.A., Canisius)	Buffalo, NY
ROY TYLER FRIZZELL (B.S., Duke)	Ft. Myers, FL
WILLIAM LEE GARNER (B.A., Arkansas College)	Nashville, TN
JONATHAN GERSON (B.A., Tufts)	Newburgh, NY
JAMES WILLIAM GIGANTELLI (B.S., Southern California)	Landing, NJ
GREGORY EARL GINN (B.S., M.S., Vanderbilt)	Franklin, TN
ROBERT FREDERICK GLENN (B.S., Furman)	Greer, SC
THOMAS JOSEPH GRUBER (B.A., Bethel)	Woodbury, MN
WILLIAM QUINTON GURLEY (B.S., Vanderbilt)	Hixson, TN
EDDIE DeWAYNE HAMILTON (B.S., Tennessee)	West Paducah, KY
RAY MARTIN HARGREAVES (B.A., Franklin & Marshall)	Stanhope, NJ
JOHN CALDWELL HARRISON (B.A., Mississippi)	New Albany, MS
DAVID LEONARD HARSHMAN (B.A., Vanderbilt)	Nashville, TN
BILL FRANK HEFLEY, JR. (B.S., Harding)	Little Rock, AR
RICHARD JAMES HEMPEL (B.A., Kentucky)	Lexington, KY
RENEE YVETTE HILL (B.S., Loma Linda)	San Bernardino, CA
CHARLES WAYNE HOLLEY, JR. (B.S., Southwestern at Memphis)	Chattanooga, TN
LINDA LEE ISAACS (B.S., Kentucky)	Lexington, KY



JOHN EDWIN JAYNE (B.A., Tennessee, Chattanooga)	Hixson, TN
DONALD WAYNE JENKINS, JR. (B.A., Tennessee)	Knoxville, TN
RICHARD JOHNSTON (B.S., Georgia)	Woodstock, GA
SAMUEL MARTIN KNEECE (B.S., Wofford)	Columbia, SC
SAMUEL HUSBANDS LANGSTAFF III (B.A., Williams)	Littleton, CO
GREGORY McKINNON LEWIS (A.B., Harvard)	Little Rock, AR
KAREN LEE LINDSLEY (B.E., Vanderbilt)	Clarksville, TN
JAMES VANBUREN LITTLE III (B.A., Vanderbilt)	San Antonio, TX
THOMAS HERBERT MAGNUSON (A.B., Stanford)	Menlo Park, CA
LAURA MONE McALPIN (B.S., Vanderbilt)	Atlanta, GA
DAVID ALAN McDONOUGH (B.S., David Lipscomb)	Nashville, TN
STACEY WAYNETTE McKENZIE (B.S., University of the South)	Kingsport, TN
NEAL JAY MEROPOL (A.B., Princeton)	Teaneck, NJ
JAMES HOWARD MILLER, JR. (B.A., Tennessee)	Knoxville, TN
WILLIAM KEITH MONTGOMERY (B.S., Georgia)	Tucker, GA
IB RASK ODDERSON (B.S., Aarhus, Denmark; M.S., Copenhagen, Denmark; Ph.D., Indiana)	Thisted, Denmark
CINDY ROBIN PARNES (B.S., Tufts)	Emerson, NJ
DAVID WAYNE PATTERSON (B.A., Vanderbilt)	Franklin, KY
DENNIS PEARMAN (B.S., United States Air Force Academy)	Merrillville, IN
BRADFORD MORRIS PIATT (B.A., California)	Orinda, CA
WILLIAM HOWARD POLK, JR. (B.A., Arkansas)	Fort Smith, AR
DEAN LOUIS QUIMBY (B.S., Eastern Nazarene)	Skowhegan, ME
PAUL MATTHEW RADOSEVICH (B.A., California)	Martinez, CA
DAVID GRADY RATCLIFF (B.A., Hendrix)	North Little Rock, AR
GEORGE DANIEL RATH (B.S., Stanford)	Omaha, NE

EDMUND WILLIAM RAYCRAFT (B.A., Illinois Wesleyan)	Hudson, IL
DAVID RALPH REAGAN (B.S., East Tennessee State; Ph.D., Vanderbilt)	Johnson City, TN
JAMES BRUCE REDMON (B.S., Georgetown College)	Bowling Green, KY
DAVID ROY REPASKE (A.B., Cornell University; Ph.D., Wisconsin, Madison)	Kensington, MD
DAVID FRANKLIN RHODES (A.B., Davidson)	Decatur, GA
NORMAN ROLAND RICHARDS (A.B., Princeton)	Grand Forks, ND
ROBERT DAVID RIEDEL (A.B., Occidental)	Pacific Palisades, CA
MICHAEL VITO ROCCO (B.S., Seton Hall)	South Orange, NJ
MATTHEW BRANDL ROSSI (B.A., Illinois Wesleyan)	Hopedale, IL
LEO JOSEPH ROTHBARTH (B.A., Emory)	Saint Louis, MO
JON LEONARD SCHRAM (B.S., Calvin)	Spring Lake, MI
JON ALAN SHERROD (B.S., Harding)	Belle Meade, NJ
MARK EDWARD SHOGRY (B.S., Davidson)	Charleston, SC
ELIZABETH BARLOW SIMPSON (B.A., Brown)	Birmingham, AL
VALERIE ADREAM SMARTT (B.A., Vanderbilt)	Nashville, TN
GREGORY DEAN SMITH (B.S., Vanderbilt)	Huntsville, AL
WAYNE THOMAS SPEARS (B.S., Duke)	Longwood, FL
CLARISSA SYLVANA TENDERO (B.S., Wisconsin)	La Crescent, MN
KEITH ALEXANDER THOMPSON (B.S., Auburn)	Tanner, AL
PAUL EUGENE THOMSON (B.A., Wabash)	Cincinnati, OH
JEFFREY ALLEN TRAIL (B.S., Pepperdine)	Roseburg, OR
SONYA MARIAM VAZIRI (B.A., Duke)	Huntington, WV
PHILLIP ASHLEY WACKYM (B.A., California State)	Villa Park, CA
EDITH PATRICE WASHINGTON (B.S., Vanderbilt)	Jackson, MS
STEPHEN GREGORY WERTH (B.A., Emory)	Chevy Chase, MD
DAVID MARVIN WHEELER (B.S., Georgetown College)	Flatwoods, KY
KEVIN DANIEL WHITELAW (B.S., California, Davis)	Laguna Beach, CA

ROBERT CHRISTOPHER WILLE (B.S., Cincinnati)	Cincinnati, OH
ALAN THORNE WILLIAMS (B.S., Mississippi)	Greenwood, MS
LAURA ELLEN WITHERSPOON (B.A., Vanderbilt)	Signal Mountain, TN
MICHAEL RODGER WOOTTEN (B.A., Vanderbilt)	Nashville, TN
SHARON MARIE WYATT (B.A., East Tennessee State)	Johnson City, TN
STEVEN HENRY YOOD (B.S., Davidson)	Chattanooga, TN

**Third-Year Class**

MARK DONALD ANDERSON (A.B., Grinnell)	New Hampton, IA
ROBERT MICHAEL ARIS (B.A., Jacksonville)	Jacksonville, FL
LARRY BRYAN BALDWIN (B.S., Pepperdine)	Lompoc, CA
JOHN BENJAMIN BOND III (B.S., Vanderbilt)	Nashville, TN
NANCY LEAH BROADY (B.A., Tennessee)	Pigeon Forge, TN
HARRY HOWARD BROWN (B.S., O.D., Indiana)	Frederick, MD
BARBARA ANNETTE BUECHY (B.S., California, Davis)	Mill Valley, CA
DANIEL JOSEPH BURCH (B.S., South Carolina)	Aiken, SC
DOUGLAS STEVENSON CAMPBELL (B.A., Dartmouth; M.S., Kentucky, Lexington)	Fort Lauderdale, FL
ROBERT DOUGLAS CEBUL (B.A., Wabash)	Wooster, OH
GEOFFREY DAVID CHAZEN (B.A., Amherst)	Nashville, TN
KATHLEEN RUTH CHO (B.A., Yale)	Rockville, MD
CARLOS RENE DALENCE (A.B., Stanford)	Rancho Palos Verdes, CA
PETER GERALD D'AMOUR (B.A., Indiana)	Evansville, IN
LEE BUELL DANIEL (B.A., Vanderbilt)	Danville, KY
WILLIAM COURTENAY DINWIDDIE, JR. (B.S., Auburn)	Greensboro, AL
BARBARA DUBIEL (B.S., Yale)	East Hartford, CT
PATRICIA LORRAINE ERBE (B.A., Monmouth)	Spring Lake, NJ
RON DELAYNE FLEMING (B.S., Virginia Commonwealth)	Reston, VA

MILTON JACK FOUST, JR. (B.A., Vanderbilt)	Collierville, TN
HUGH FRANCIS III (B.S., Vanderbilt)	Memphis, TN
MITCHELL JAY FREED (B.S., Florida)	Miami, FL
CAREN ELIZABETH GAINES (B.S., Emory)	Ormond Beach, FL
RUSSELL EUGENE GALLOWAY (B.A., Southwestern at Memphis)	Potomac, MD
SHERRY JORDON GALLOWAY (B.A., Vanderbilt)	West Paducah, KY
FRANK JOHN GRESKOVICH III (B.A., University of the South)	Pensacola, FL
STEVEN SMILEY GUEST (B.A., Emory)	Montgomery, AL
BARTON CHARLES GUMPERT, JR. (B.S., Muhlenberg)	Tucker, GA
RICHARD SCOTT HALL (B.A., Tennessee)	Nashville, TN
DOUGLAS HOWARD HAMILTON (B.A., Earlham; Ph.D., Vanderbilt)	Philadelphia, PA
WILLIAM FOWLER HILTZ (B.A., California, San Diego)	Morehead City, NC
MARYLEE HOWELL (B.S., Duke)	Sumner, MD
LARRY STEVEN HUNT (B.S.E., Duke)	Cumberland, MD
BRADLEY GLENN JACOBY (B.S., Auburn)	Montgomery, AL
ROY ANDREW JENSEN (B.S., Pittsburgh State)	Paola, KS
GLENN JOSEPH KEHS (B.S., Loyola)	Baltimore, MD
JON DAVID KIRSCH (A.B., Washington University)	Chappaqua, NY
STEVEN LEWIS KLEIN (B.S., University of Washington)	Seattle, WA
GERALD PAUL KONRAD (B.A., Fresno Pacific; M.S., Stanford)	Fresno, CA
LAURA KEAN KRAMER (B.A., Yale)	Saint Thomas, VI
KRIS ELISABETH KUHN (B.A., Vanderbilt)	Old Lyme, CT
ROBERT WILLIAM KURRLE (B.S.M.E., Cincinnati; M.S., New York)	Willoughby, OH
LAURA JO LEHMANN (B.A., Vanderbilt)	Louisville, KY
MARGARET RUTH LINN (B.E., Vanderbilt)	Nashville, TN
HAROLD ALAN LUBICK (B.S., California, Riverside; D.D.S., Southern California)	Los Angeles, CA

RICHARD LOUIS MAAS (A.B., Dartmouth)	Severna Park, MD
SARA TOWNSEND MacMILLAN (B.A., College of Wooster)	Wooster, OH
MORGAN LAWRENCE MAGID (B.A., California, San Diego)	Los Gatos, CA
LOREN HESS MARSHALL (B.S., Northwestern)	Wilmette, IL
WILLIAM HENRY MATTHAI, JR. (B.S., Washington and Lee)	Baltimore, MD
JACK BASS McCALLIE (B.A., Virginia)	Chattanooga, TN
BENJAMIN D. McCALLISTER (B.S., Stanford)	Mission Hills, KS
DAVID MICHAEL McCOY (B.S., Virginia)	Oak Ridge, TN
JOSEPH EDWARD McCULLOUGH (A.B., Duke)	Memphis, TN
ROLF WALTER MEINHOLD (A.B., Occidental)	Glendale, CA
CHERYL ANNE MENZIES (B.S., Vanderbilt)	Jackson, TN
DAVID PAUL MESNA (B.A., Saint Olaf)	Edina, MN
ELIZABETH MISSKELLY MITCHELL (B.S., Furman)	Rock Hill, SC
ROBERT THOMAS MITCHELL (B.A., Tennessee)	Gallatin, TN
FRANCISCO JAVIER MUNOZ (A.B., Columbia)	Flushing, NY
THOMAS CHARLES NASLUND (B.A., Trinity)	Amarillo, TX
KIMBERLY ANN NEELY (B.S., Pennsylvania State)	Emlenton, PA
PHILIP EARL NEELY (B.S., Vanderbilt)	Huntsville, AL
CATHERINE CAROL OHSIEK (B.S., Rensselaer Polytechnical Institute)	Buffalo, NJ
STEVEN PETER PETROU (B.S., Emory)	Cincinnati, OH
MARK TAFFEL POLLOCK (B.S., Georgia)	Atlanta, GA
CHARLES GENE PRIBBLE (B.A., Claremont Men's)	Whittier, CA
THOMAS HOWARD RAND (B.S., University of the South)	Cleveland Heights, OH
PAULA DENISE RANDOLPH (A.B., Princeton)	Memphis, TN
BRENDA DENISE RAYNOR (A.B., Cornell)	Wyoming, OH
MARK WILLIAM REDOR (B.A., California, Davis)	Sausalita, CA

JULIE ANN REMUND (B.S., South Dakota State)	Mitchell, SD
WILLIAM LOUIS RICE (B.S., Millsaps)	Tupelo, MS
BRIAN DALE RIEDEL (B.S., Emory)	Clearwater, FL
MICHAEL CHARLES ROBERTS (B.S., Vanderbilt)	Saint Petersburg, FL
RICHARD EARLE ROCHESTER (B.S., Clemson)	Seneca, SC
THOMAS MARKUS ROESCH (B.S., University of the Pacific)	Lodi, CA
BRIAN JEFFREY ROSENTHAL (A.B., Duke)	Akron, OH
MARK STEVEN ROUTBURG (B.S., Missouri)	Saint Louis, MO
THOMAS MARK SCHILLER (B.S., Whitworth)	Tacoma, WA
FRANK JOHN SCHLEHR, JR. (B.S., Notre Dame)	Williamsville, NY
BARBARA ANN SCHNEIDER (B.S., California, Davis)	San Jose, CA
KEVIN STEWART SHEA (B.A., B.S., Virginia)	Fairfax, VA
MARC EDWARD SHELTON (A.B., Missouri, Columbia)	Saint James, MO
WILLIAM GARRISON STRICKLAND (B.S., Alabama)	Scottsboro, AL
MARK DANIEL SULLIVAN (B.S., Michigan; Ph.D., M.S., Vanderbilt)	Elmhurst, IL
ROBERT BRIAN SWOTINSKY (B.S., Massachusetts Institute of Technology)	Morris Plains, NJ
PATRICIA RUTH SYLWESTER (A.B., Washington University)	Eugene, OR
PATRICK SPENCER TEKELI (B.A., California)	San Francisco, CA
LENITA HELEN THIBAUT (B.A., Vanderbilt; M.S., Johns Hopkins)	North Little Rock, AR
DAVID SQUIRE THORPE (B.S., Arizona State)	Mesa, AZ
JAMES DAVID THURSTON (B.S., Weber State)	Brigham City, UT
PAUL JOHN TOBBEN (A.B., Missouri)	Washington, MO
ROBERT ELTON TONSING (A.B., Harvard)	Ballwin, MO
JOHN WEST VAN WERT (A.B., Duke)	Ormond Beach, FL
RANDALL PAUL WAGNER (B.S., Wright State, Dayton)	Mentor, OH
IRVING DAVID WEINER (B.S., Vanderbilt)	Orlando, FL
MARY JOSEPH WERNER (B.A., Rice)	Tucson, AZ

DAVID WILLIAM WHITE (B.S., Vanderbilt)	Tulsa, OK
JAMES ALAN WHITLOCK (B.S., Southwestern at Memphis)	Kingsport, TN
ROBERT THEODORE WILDER (B.S., Stanford)	Couer D'Alene, ID
CHARLES STEVEN WILSON (Tennessee)	Nashville, TN
DAVID MARK WOLF (B.S., Rutgers)	Westfield, NJ

**Fourth-Year Class**

MARK CHARLES ADAMS (B.A., Vanderbilt)	Columbus, GA
JACK WILLIAM ALAND, JR. (B.A., Brown)	Birmingham, AL
ALBERT IRVIN ALEXANDER IV (B.S., Brown)	Andover, MA
JOHN ALAN ANDREW (B.S., Stanford)	Park Ridge, IL
STANLEY LAMONS BARNWELL (B.A., Emory)	Jacksonville, FL
BRYAN DANIEL BEAVER (B.A., Vanderbilt)	Nashville, TN
LINDA YVONNE BECK (B.S., M.S., Texas Agriculture and Mechanical)	Rosenberg, TX
RICHARD ALLEN BERNSTEIN (B.S., Michigan)	Bethesda, MD
HENRY MICHAEL BLUMBERG (A.B., Washington University)	Albuquerque, NM
RICHARD RALPH BOESEL (A.B., Duke)	Morristown, NJ
DENNIS BONNER (B.S., Alabama Agricultural and Mechanical)	Roanoke, AL
LAUREN VIRGINIA BOWER (B.S., California, Irvine)	Poway, CA
SARAH JANE BROWN (B.A., Vanderbilt)	Charleston, MO
DAVID ALLAN BURACK (B.S., Duke)	Short Hills, NJ
MICHAEL DENNEY CALLAWAY (B.S., Emory)	Nashville, TN
JAMES TIMMONS CALLIS (B.S., Western Kentucky)	Owensboro, KY
CHARLES POWELL COCHRAN, JR. (B.S., Davidson)	Atlanta, GA
JOHN ROBERT COGGINS, JR. (B.S., Auburn)	New Orleans, LA
RICHARD JAMES CONKLIN III (B.S., Syracuse)	Pittsfield, MA
JENNIFER LYNN CRAIG (B.S., George Washington)	Washington, DC
HENRY SMITH CUNNINGHAM (B.A., Vanderbilt)	Cadiz, KY

PETER WILLIAM CURATOLO (B.S., Massachusetts Institute of Technology)	Louisville, KY
JEFFREY LYNN DEATON (B.S., Vanderbilt)	Jackson, TN
DONALD ALAN DECKER (B.S., California, Santa Barbara)	San Bruno, CA
VAUGHN ERIC DOBALIAN (B.S., M.S., Massachusetts Institute of Technology)	Beverly Hills, CA
ROBERT PAUL DOLAN (B.A., Vanderbilt)	Flossmoor, IL
BARBARA JO DOSS (B.A., Kenyon)	Ann Arbor, MI
JONATHAN C. DUNN (B.S., Lehigh)	Fords, NJ
BLAIR DILLARD ERB, JR. (B.A., Colorado College)	Jackson, TN
IRA KENNETH EVANS III (B.A., Yale)	Centerville, MA
JANICE ELIZABETH EVANS (B.S., Vanderbilt)	New Orleans, LA
ANN REGINA FALSEY (B.S., Providence)	Cheshire, CT
CHRISTA MARIE FANDEL (A.B., Smith)	Natick, MA
NEIL GORDON FEINGLASS (B.A., Vanderbilt)	Miami, FL
TONY FRASER FEUERMAN (B.A., Pomona)	Los Angeles, CA
NELSON CURTIS FRINK (B.S., California Polytechnical State)	Yuba City, CA
FRANCIS EDWIN FROELICH (B.S., Oklahoma)	Huntsville, AL
JEREMY MARK GEIDUSCHEK (B.S., Stanford)	La Jolla, CA
BETH ELLYN GOLDBAUM (B.S., Cornell; M.S., Columbia)	Latham, NY
ARTHUR LEE GOLDNER (A.B., Washington University)	Nashville, TN
JAMES HARRY GUILDFORD (B.S., State University of New York, Buffalo)	Tonawanda, NY
CELIA MARIAM GULBENK (B.S., Emory)	Nashville, TN
DAVID WILLIAM HAAS (A.B., Indiana)	Suffern, NY
JOSHUA ABRAHAM HALPERN (B.S., Southern California)	Tarzana, CA
MARY ALICE HARBISON (B.A., Yale)	Nashville, TN
CARROLL McWILLIAMS HARMON (B.S., Alabama)	Birmingham, AL
JAMES ROBERT HART (B.A., Vanderbilt)	Kingsport, TN
JOHN LOWELL HOLBROOK (B.A., Virginia)	Huntington, WV



ROBERT WALLER HOLLOWAY (B.S., Illinois, Urbana)	Sparta, IL
RUSSELL MARS HOWERTON (B.A., Johns Hopkins)	Newport News, VA
MICHAEL BRIAN ISHITANI (A.B., Stanford)	Portland, OR
CHRISTINE KATHRYN JACOBS (B.S., California, Davis)	Los Angeles, CA
WILLIAM MICHAEL KAVANAUGH (B.A., Yale)	Lexington, KY
WILLIAM TAFT KLOPE, JR. (B.S., Pepperdine)	Ventura, CA
ARTHUR GORDON KLOSE (B.A., North Carolina)	Greenville, NC
EDWARD JOHN KNISH, JR. (B.A., Rice)	Nashville, TN
DAVID BRUCE KOCH (B.A., Vanderbilt)	Saint Louis, MO
DAVID NATHAN KORONES (A.B., Princeton)	Memphis, TN
JAMES MICHAEL KRAFCIK (B.A., Case Western Reserve)	Parma Heights, OH
ERIC RICHARD KREUTZER (B.S., Columbia)	Massapequa Park, NY
LAURIE MacPHERSON LAWRENCE (B.S.N., Vanderbilt)	Nashville, TN
MELANIE ROSE WEISS LEVITAN (B.A., State University of New York, Albany)	Brooklyn, NY
MARK LEE LIPMAN (B.S., Florida)	Miami, FL
KEITH HANS LOVEN (B.S., North Dakota)	Valley City, ND
SANDRA ALICIA LOWE (B.S., Molloy; M.A., New York)	Saint Albans, NY
PATRICK JOSEPH LOWRY (B.A., East Tennessee State)	Johnson City, TN
GARY SCOTT MARSHALL (B.A., Pennsylvania)	Philadelphia, PA
PETER STEVEN MARSHALL (B.A., Middlebury)	Madison, WI
KARIN ALEXANDRA LYELL McCLOSKEY (A.B., Goucher)	Baltimore, MD
REX HAMMOND McGEHEE (B.A., Northwestern)	Silvis, IL
SAMUEL JAY McKENNA (B.A., California, San Diego; D.D.S., California, Los Angeles)	Palo Alto, CA
ROBERT WORD McMILLAN (B.A., Southern Methodist)	Shreveport, LA
ROBERT TAYLOR MEANS, JR. (B.A., Rice)	Santa Ana, CA
STEVEN WILLIAM MERRELL (B.A., Pennsylvania)	Geneva, OH
WAYNE MURPHY (B.E., Vanderbilt)	Nashville, TN

KEVIN JAMES MYERS (A.B., Princeton)	Hilton Head Island, SC
CONSTANTINE WILLIAM PALASKAS (B.A., Kansas)	Prairie Village, KS
PENNY MARILYN PALMER (B.A., Vanderbilt)	Billings, MT
LEE EDWARD PAYNE (B.S., Kentucky)	Owensboro, KY
MARK EUGENE PETRIK (B.A., Bellarmine)	Louisville, KY
DANIEL LEE PHILLIPS (A.B., Princeton)	Gallatin, TN
STEPHEN MICHAEL PRATT (B.A., Vanderbilt)	Hamilton, OH
MARK JOHN PRICE (B.S., Bates)	Portsmouth, NH
PETER LYNN RACKOW (A.B., Cornell)	Saint Petersburg, FL
THEODORE FELD REISS (B.A., Pennsylvania)	Passaic, NJ
DAVID PAUL ROBINSON (B.A., University of the South)	Spring City, TN
LORI BETH ROTHSTEIN (B.A., Virginia)	Wayne, NJ
STEVE GARY SALYERS (B.S., Kentucky)	Tampa, FL
TODD ALAN SHUMAN (B.A., Colorado)	Denver, CO
GENE CARL SMIGOCKI, JR. (B.A., Franklin and Marshall)	Exton, PA
LINDA LOU CROCKER SMITH (B.A., Wake Forest)	Selma, NC
ROBERT GEORGE STEWART (A.B., Occidental)	Visalia, CA
BARBARA JANE STOCKING (B.A., Arizona)	Glendale, AZ
JAY THOMAS STRITTHOLT (B.A., Vanderbilt)	Cincinnati, OH
ANTHONY PAUL TERRASSE (B.S., Notre Dame)	Boca Raton, FL
MICHAEL CARMINE TIGANI (B.S., Duke)	Bethesda, MD
WILLIAM JOSEPH TRAVIS (B.S., Western Kentucky)	Tompkinsville, KY
JAMES BENJAMIN TRIBBLE (B.S., Clemson)	Columbia, SC
MARY ANNE VAN ZYL (B.A., Oregon)	Gresham, OR
ANTHONY DEAN WEAVER (B.A., Vanderbilt)	Scottsville, KY
ROSEANNA AILEEN DARBY WEBB (B.S., Georgia State; Ph.D., Vanderbilt)	Nashville, TN

ERIC ALAN WIEBKE  
(A.B., Duke)

Oceanside, NY

RONALD RAY WINEK  
(B.S., Wisconsin, Oshkosh; Ph.D., Iowa)

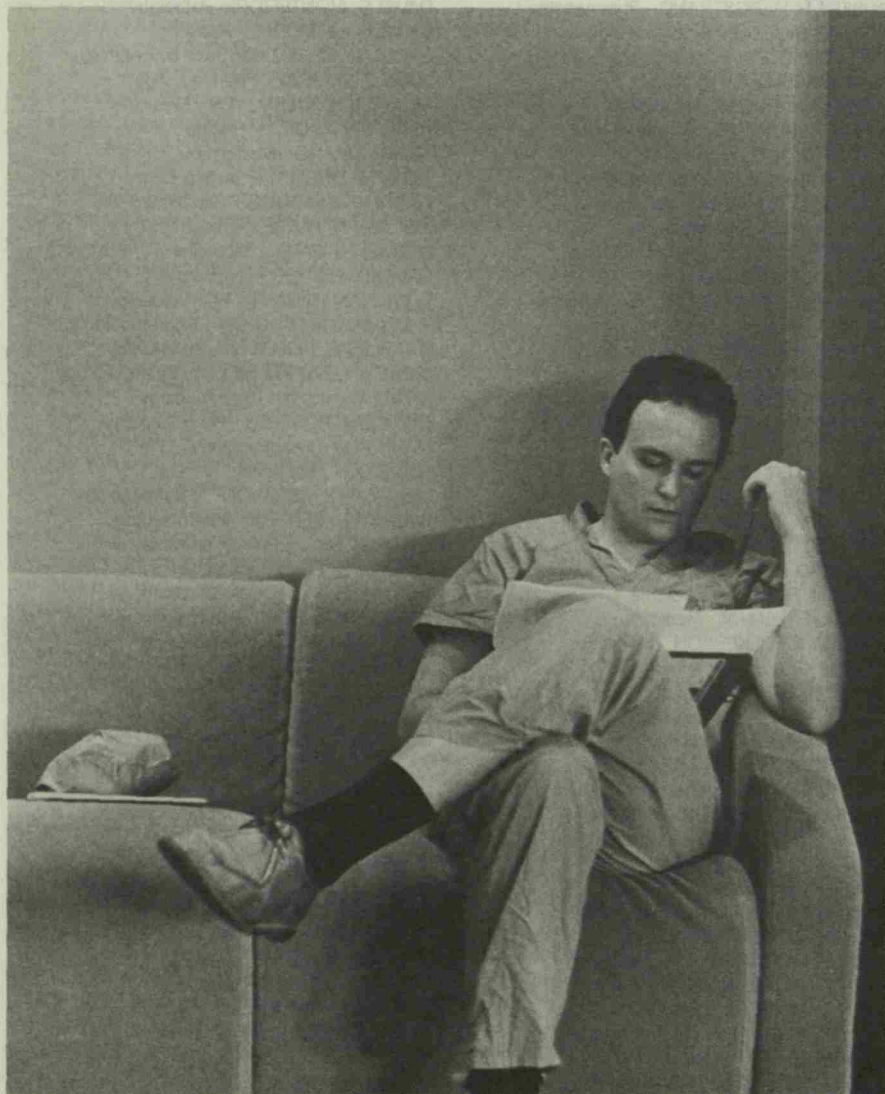
Wauwatosa, WI

HUNTER EARL WOODALL  
(B.S., Davidson)

Kannapolis, NC

VALARIE CHARMAINE YOUNG  
(B.A., Emory)

Atlanta, GA



## Fellows

- LOWELL B. ANTHONY Medicine  
 CRAIG APPELGATE, Pharmacology  
 KOHTARO ASAYAMA Pediatrics  
 ALAN BAER Medicine  
 MARIA R. BAER Medicine  
 JEAN T. BARBEY Medicine  
 JEFFREY K. BECKMAN Pharmacology  
 CHRISTOPHER BEGLEY Medicine  
 ROBERT H. BERGSTRAND Pharmacology  
 JEROME BIOLLAZ Pharmacology  
 MARK BRADLEY Pharmacology  
 TOBIE BRESLOFF Medicine  
 TIMOTHY H. BROWN Medicine  
 SUSAN A. BUHROW Biochemistry  
 ALBERT L. BUNDY Radiology  
 WILSON BURGESS Pharmacology  
 SAMUEL L. BURKLOW Medicine  
 BRENDA J. BUTKA Medicine  
 GEORGE CARLSON Pharmacology  
 ESTHER COSTEL Medicine  
 RICHARD E. COWART, JR. Biochemistry  
 MARIO P. CURZI Medicine  
 LARRY J. DANGOTT Pharmacology  
 JaiDEV DASGUPTA Pharmacology  
 CHARLES R. DeBOLD Medicine  
 STEPHEN DeCHERNEY Medicine  
 DAVID DUHL Biochemistry  
 ERIC L. DYER Medicine  
 BARBARA ENGELHARDT Pediatrics  
 ROBERT M. EVANS Medicine  
 ROSS FELDMAN Pharmacology  
 DESMOND FITZGERALD Pharmacology  
 JERRY M. FOSTER Medicine  
 DALE A. FREEMAN Medicine  
 WILLIAM J. FULKERSON Medicine  
 BAHIRU GAMETCHU Medicine  
 JAMES C. GAY Pediatrics  
 FUMIO GOTO Pharmacology  
 JOHN P. GREER Medicine  
 HOWARD B. HAIMES Biochemistry  
 STEPHEN D. HALL Pharmacology  
 FREDERICK R. HASELTON Medicine  
 PAULA B. HEWGLEY Pharmacology  
 BENJAMIN HOXWORTH Surgery  
 PHILIP B. INSKEEP Biochemistry  
 D. LYNN KALINOSKI Pharmacology  
 THOMAS A. KEITH Pathology  
 KATHLEEN KENNEDY Pediatrics  
 THERESE KERAVIS Pharmacology  
 JOHN E. KEYSER Surgery  
 HOWARD R. KNAPP Pharmacology  
 ELIZABETH D. KRUEGER Pediatrics  
 DOMINIQUE LARREY Pharmacology  
 WILLIAM D. LUCHT Medicine  
 BO P. W. LUNDELL Pediatrics  
 THOMAS L. McCURLEY Pathology  
 JAMES C. McKENZIE Biochemistry  
 MICHAEL J. MAGEE Medicine  
 CONNIE L. MANSKE Medicine  
 ROBERT J. MICH Medicine  
 JERRY MILLER Pharmacology  
 DAVID C. MONTEFIORI Pathology  
 CHARLOTTE MOREL Pediatrics  
 BARBARA MROCZKOWSKI Biochemistry  
 JOHN J. MURRAY Pharmacology  
 MICHAEL NEIDERMEYER Medicine  
 KEITH B. NOLOP Medicine  
 TADAO OKANO Medicine  
 JOHN M. ONROT Pharmacology  
 ANDREW J. PADGUG Radiology  
 KAILASH N. PANDEY Biochemistry  
 JAGDISH B. PATEL Medicine  
 DAVID H. PORTER Biochemistry  
 E. WILLIAM RADANY Pharmacology  
 THUNMALE RAGHURAN Pharmacology  
 CHARLES S. REILLY Anesthesiology  
 IRENE A. GRAHAM REILLY Pharmacology  
 JAMES W. RIGBY Pharmacology  
 DANIEL M. ROBERTS Pharmacology  
 MARK ROS Pharmacology  
 LOUIS ROY Medicine  
 DEBORAH L. SEGALOFF Pharmacology  
 WILLIAM E. SERAFIN Pharmacology  
 OMAR M. SHAHEEN Pharmacology  
 WILLIAM K. SHEA Medicine  
 WILLIAM R. SHELTON Medicine  
 LYLE A. SIDDOWAY Pharmacology  
 ANN SODERQUIST Biochemistry  
 J. MICHAEL SPEAR Medicine  
 HEWIETT B. STEWART Physiology  
 CHRISTA M. STOSCHECK Biochemistry  
 MICHAEL P. TENDERA Medicine  
 KATHERINE A. THOMPSON Pharmacology  
 WILLIAM S. TILLEY, JR. Medicine  
 ANNICK VAN DEN ABBEELE Pediatrics  
 MICHAEL M. WANG Medicine  
 THEODORE WANG Pharmacology  
 PETER J. WEDLUND Pharmacology  
 CHRISTOPHER WEHR Surgery  
 WAYNE WINDHAM Radiology  
 THOMAS YEAGER Pediatrics  
 ANDREW D. ZADOFF Medicine  
 JOSEPH ZENDEGUI Pharmacology  
 RAYMOND ZIELINSKI Pharmacology  
 STEPHEN ZIMNISKI Biochemistry

## Class of 1983

### Residency Assignments

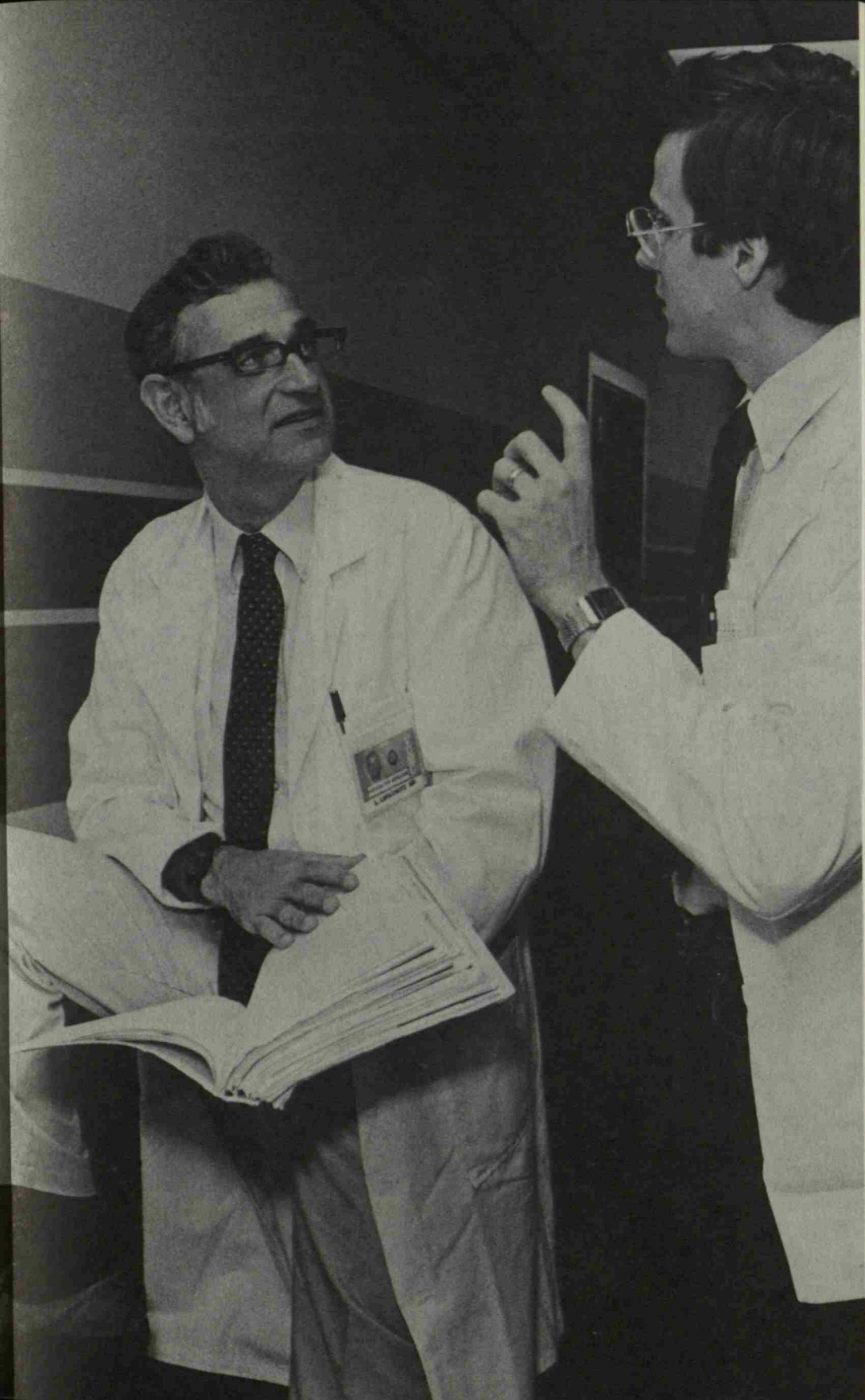
MARK CHARLES ADAMS Indiana University Medical Center, Indianapolis (Surgery, Urology)	Columbus, GA
JACK WILLIAM ALAND, JR. University of Alabama Medical Center, Birmingham (Surgery, Ear, Nose, and Throat)	Birmingham, AL
ALBERT IRVIN ALEXANDER IV Vanderbilt University Affiliated Hospitals (Surgery)	Andover, MA
JOHN ALAN ANDREW Medical College of Virginia, Richmond (Medicine)	Park Ridge, IL
STANLEY LAMONS BARNWELL University of California Hospitals, San Francisco (Neurological Surgery)	Jacksonville, FL
BRYAN DANIEL BEAVER University of Missouri Medical Center, Columbia (Pediatrics)	Nashville, TN
LINDA YVONNE BECK Vanderbilt University Medical Center (Research Fellowship, Medicine)	Rosenberg, TX
RICHARD ALLEN BERNSTEIN Washington Hospital Center, Washington, D.C. (Medicine)	Bethesda, MD
HENRY MICHAEL BLUMBERG Emory University Affiliated Hospitals, Atlanta, Ga. (Medicine)	Albuquerque, NM
RICHARD RALPH BOESEL University of Florida Medical Center, Gainesville (Obstetrics/Gynecology)	Morristown, NJ
DENNIS BONNER Emory University Affiliated Hospitals, Atlanta, Ga. (Medicine)	Roanoke, AL
LAUREN VIRGINIA BOWER University of South Florida Affiliated Hospitals, Tampa (Obstetrics/Gynecology)	Poway, CA
SARAH JANE BROWN Vanderbilt University Affiliated Hospitals (Psychiatry)	Charleston, MO
DAVID ALLAN BURACK University Health Center of Pittsburgh, Pa (Medicine)	Short Hills, NJ
MICHAEL DENNEY CALLAWAY Vanderbilt University Affiliated Hospitals (Medicine)	Nashville, TN
JAMES TIMMONS CALLIS Vanderbilt University Affiliated Hospitals (Surgery)	Owensboro, KY
CHARLES POWELL COCHRAN, JR. Vanderbilt University Affiliated Hospitals (Medicine)	Atlanta, GA
JOHN ROBERT COGGINS, JR. Ochsner Medical Foundation, New Orleans, La. (Medicine)	New Orleans, LA
RICHARD JAMES CONKLIN III University of Oklahoma Memorial Hospital, Oklahoma City (Medicine)	Pittsfield, MA
JENNIFER LYNN CRAIG Johns Hopkins Hospital, Baltimore, Md. (Pediatrics)	Washington, DC
HENRY SMITH CUNNINGHAM University of Texas, Southwestern Affiliated Hospitals, Dallas (Medicine)	Cadiz, KY
PETER WILLIAM CURATOLO New England Deaconess Hospital, Boston, Mass. (Surgery)	Louisville, KY
JEFFREY LYNN DEATON University of Connecticut Affiliated Hospitals, Farmington (Obstetrics/Gynecology)	Jackson, TN
DONALD ALAN DECKER Saint Mary's Hospital (University of California, San Francisco) (Transitional)	San Bruno, CA

VAUGHN ERIC DOBALIAN	Beverly Hills, CA
Beth Israel Hospital, Boston, Mass. (Surgery)	
ROBERT PAUL DOLAN	Flossmoor, IL
University of Colorado Affiliated Hospitals, Denver (Medicine)	
BARBARA JO DOSS	Ann Arbor, MI
Charlotte Memorial Hospital (University of North Carolina) (Obstetrics/Gynecology)	
JONATHAN C. DUNN	Fords, NJ
Montefiore Hospital (University of Pittsburgh) Pa. (Medicine)	
BLAIR DILLARD ERB, JR.	Jackson, TN
University of California Hospitals, San Francisco (Medicine)	
IRA KENNETH EVANS III	Centerville, MA
Hartford Hospital (University of Connecticut) (Orthopedic Surgery)	
JANICE ELIZABETH EVANS	New Orleans, LA
Tucson Hospitals Medical Education Program, Ariz. (Transitional)	
ANN REGINA FALSEY	Cheshire, CT
Strong Memorial Hospital, Rochester, N.Y. (Medicine)	
CHRISTA MARIE FANDEL	Natick, MA
Vanderbilt University Affiliated Hospitals (Pediatrics)	
NEIL GORDON FEINGLASS	Miami, FL
University of Florida Medical Center, Gainesville (Anesthesiology)	
TONY FRASER FEUERMAN	Los Angeles, CA
University of California, Los Angeles Hospitals and Clinics (Neurological Surgery)	
NELSON CURTIS FRINK	Yuba City, CA
Tucson Hospitals Medical Education Program, Ariz. (Transitional)	
University of Colorado Affiliated Hospitals, Denver (Radiology - PGY 2)	
FRANCIS EDWIN FROELICH	Huntsville, AL
University of Oklahoma Memorial Hospital, Oklahoma City (Family Practice)	
JEREMY MARK GEIDUSCHEK	La Jolla, CA
University of Washington Affiliated Hospitals, Seattle (Pediatrics)	
BETH ELLYN GOLDBAUM	Latham, NY
Tufts University Affiliated Hospitals, Boston, Mass. (Obstetrics/Gynecology)	
ARTHUR LEE GOLDNER	Nashville, TN
Brigham and Women's Hospital, Boston, Mass. (Medicine)	
JAMES HARRY GUILDFORD	Tonawanda, NY
Carraway Methodist Medical Center, Birmingham, Ala. (Transitional)	
University of Alabama Medical Center, Birmingham (Ophthalmology - PGY 2)	
CELIA MARIAM GULBENK	Nashville, TN
Vanderbilt University Affiliated Hospitals (Pediatrics)	
DAVID WILLIAM HAAS	Suffern, NY
Vanderbilt University Affiliated Hospitals (Medicine)	
JOSHUA ABRAHAM HALPERN	Tarzana, CA
University of Oregon Health Sciences Center, Portland (Surgery)	
MARY ALICE HARBISON	Nashville, TN
Vanderbilt University Affiliated Hospitals (Medicine)	
CARROLL McWILLIAMS HARMON	Birmingham, AL
Vanderbilt University Affiliated Hospitals (Surgery)	
JAMES ROBERT HART	Kingsport, TN
Vanderbilt University Affiliated Hospitals (Psychiatry)	
JOHN LOWELL HOLBROOK	Huntington, WV
Vanderbilt University Affiliated Hospitals (Orthopedic Surgery)	
ROBERT WALLER HOLLOWAY	Sparta, IL
University of Alabama Medical Center, Birmingham (Obstetrics/Gynecology)	
RUSSELL MARS HOWERTON	Newport News, VA
Vanderbilt University Affiliated Hospitals (Surgery, Ear, Nose, and Throat)	
MICHAEL BRIAN ISHITANI	Portland, OR
University of Virginia Medical Center, Charlottesville (Surgery)	

CHRISTINE KATHRYN JACOBS	Los Angeles, CA
Memorial Hospital Family Care Center (Brown University) Pawtucket, R.I. (Family Practice)	
WILLIAM MICHAEL KAVANAUGH	Lexington, KY
University of California Hospitals, San Francisco (Medicine)	
WILLIAM TAFT KLOPE, JR.	Ventura, CA
Erlanger Medical Center (University of Tennessee) Chattanooga (Orthopedic Surgery)	
ARTHUR GORDON KLOSE	Greenville, NC
Vanderbilt University Affiliated Hospitals (Surgery)	
EDWARD JOHN KNISH, JR.	Nashville, TN
University of Virginia Medical Center, Charlottesville (Medicine)	
DAVID BRUCE KOCH	Saint Louis, MO
Cook County Hospital, Chicago, Ill. (Radiology, Diagnostic)	
DAVID NATHAN KORONES	Memphis, TN
University of Rochester Associated Hospital Programs, N.Y. (Pediatrics)	
JAMES MICHAEL KRAFCIK	Parma Heights, OH
Saint Louis University Hospitals, Mo. (Medicine/Pediatrics)	
ERIC RICHARD KREUTZER	Massapequa Park, NY
MonteFiore Hospital Center (Einstein) Bronx, N.Y. (Surgery, Urology)	
LAURIE MACPHERSON LAWRENCE	Nashville, TN
Vanderbilt University Affiliated Hospitals (Medicine)	
MELANIE ROSE WEISS LEVITAN	Brooklyn, NY
Highland General Hospital, Oakland (University of California, San Francisco) (Transitional)	
MARK LEE LIPMAN	Miami, FL
University of Miami Affiliated Hospitals, Fla. (Medicine)	
KEITH HANS LOVEN	Valley City, ND
Indiana University Medical Center, Indianapolis (Medicine)	
SANDRA ALICIA LOWE	Saint Albans, NY
University Hospital of State University of New York, Stony Brook (Surgery)	
PATRICK JOSEPH LOWRY	Johnson City, TN
Barnes Hospital, Saint Louis, Mo. (Psychiatry)	
GARY SCOTT MARSHALL	Philadelphia, PA
Vanderbilt University Affiliated Hospitals (Pediatrics)	
PETER STEVEN MARSHALL	Madison, WI
University of Minnesota Hospitals, Minneapolis (Family Practice)	
KARIN ALEXANDRA LYELL McCLOSKEY	Baltimore, MD
University of Alabama Medical Center, Birmingham (Pediatrics)	
REX HAMMOND McGEHEE	Silvis, IL
University of Colorado Affiliated Hospitals, Denver (Psychiatry)	
SAMUEL JAY McKENNA	Palo Alto, CA
Vanderbilt University Affiliated Hospitals (Surgery, Oral/Maxillofacial)	
ROBERT WORD McMillan	Shreveport, LA
University of Virginia Medical Center, Charlottesville (Surgery)	
ROBERT TAYLOR MEANS, JR.	Santa Ana, CA
Baylor College Affiliated Hospitals, Houston, Texas (Medicine)	
STEVEN WILLIAM MERRELL	Geneva, OH
University of Utah Affiliated Hospitals, Salt Lake City (Surgery, Plastic)	
WAYNE MURPHY	Nashville, TN
University of Alabama Medical Center, Birmingham (Medicine)	
KEVIN JAMES MYERS	Hilton Head Island, SC
Massachusetts General Hospital, Boston (Pathology)	
CONSTANTINE WILLIAM PALASKAS	Prairie Village, KS
University of Washington Affiliated Hospitals, Seattle (Surgery, Ear, Nose, and Throat)	
PENNY MARILYN PALMER	Billings, MT
Vanderbilt University Affiliated Hospitals (Medicine)	
LEE EDWARD PAYNE	Owensboro, KY
University of Colorado Affiliated Hospitals, Denver (Medicine)	

MARK EUGENE PETRIK	Louisville, KY
Hospital of University of Pennsylvania, Philadelphia (Orthopedic Surgery)	
DANIEL LEE PHILLIPS	Gallatin, TN
Vanderbilt University Affiliated Hospitals (Orthopedic Surgery)	
STEPHEN MICHAEL PRATT	Hamilton, OH
Vanderbilt University Affiliated Hospitals (Surgery)	
MARK JOHN PRICE	Portsmouth, NH
University of Vermont Medical Center Hospital, Burlington (Pediatrics)	
PETER LYNN RACKOW	Saint Petersburg, FL
University of Colorado Affiliated Hospitals, Denver (Radiology)	
THEODORE FELD REISS	Passaic, NJ
Vanderbilt University Affiliated Hospitals (Medicine)	
DAVID PAUL ROBINSON	Spring City, TN
Vanderbilt University Affiliated Hospitals (Pediatrics)	
LORI BETH ROTHSTEIN	Wayne, NJ
Medical College of Virginia Hospitals, Richmond (Pediatrics)	
STEVE GARY SALYERS	Tampa, FL
University of Kentucky Medical Center, Lexington (Orthopedic Surgery)	
TODD ALAN SHUMAN	Denver, CO
Vanderbilt University Affiliated Hospitals (Surgery)	
GENE CARL SMIGOCKI, JR.	Exton, PA
Baylor College Affiliated Hospitals, Houston, Texas (Radiology, Diagnostic)	
LINDA LOU CROCKER SMITH	Selma, NC
Vanderbilt University Affiliated Hospitals (Medicine)	
ROBERT GEORGE STEWART	Visalia, CA
Loma Linda University Hospitals, Calif. (Medicine)	
BARBARA JANE STOCKING	Glendale, AZ
Vanderbilt University Affiliated Hospitals (Medicine)	
JAY THOMAS STRITTHOLT	Cincinnati, OH
Vanderbilt University Affiliated Hospitals (Orthopedic Surgery)	
ANTHONY PAUL TERRASSE	Boca Raton, FL
McGaw Medical Center (Northwestern University) Chicago, Ill. (Surgery, Plastic)	
MICHAEL CARMINE TIGANI	Bethesda, MD
Washington Hospital Center, Washington, D.C. (Medicine)	
Georgetown University, Washington, D.C. (Ophthalmology - PGY 2)	
WILLIAM JOSEPH TRAVIS	Tompkinsville, KY
Vanderbilt University Affiliated Hospitals (Medicine)	
JAMES BENJAMIN TRIBBLE	Columbia, SC
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MARY ANNE VAN ZYL	Gresham, OR
University of Colorado Affiliated Hospitals, Denver (Pediatrics)	
ANTHONY DEAN WEAVER	Scottsville, KY
Medical College of Virginia Hospitals, Richmond (Medicine)	
ROSEANNA AILEEN DARBY WEBB	Nashville, TN
Vanderbilt University Affiliated Hospitals (Medicine, Ophthalmology - PGY 2)	
ERIC ALAN WIEBKE	Oceanside, NY
Johns Hopkins Hospital, Baltimore, Md. (Surgery)	
RONALD RAY WINEK	Wauwatosa, WI
Mayo Graduate School of Medicine, Rochester, Minn. (Pathology)	
HUNTER EARL WOODALL	Kannapolis, NC
Charlotte Memorial Hospital (University of North Carolina) (Family Practice)	
VALARIE CHARMAINE YOUNG	Atlanta, GA
Vanderbilt University Affiliated Hospitals (Psychiatry)	







# The University Hospital

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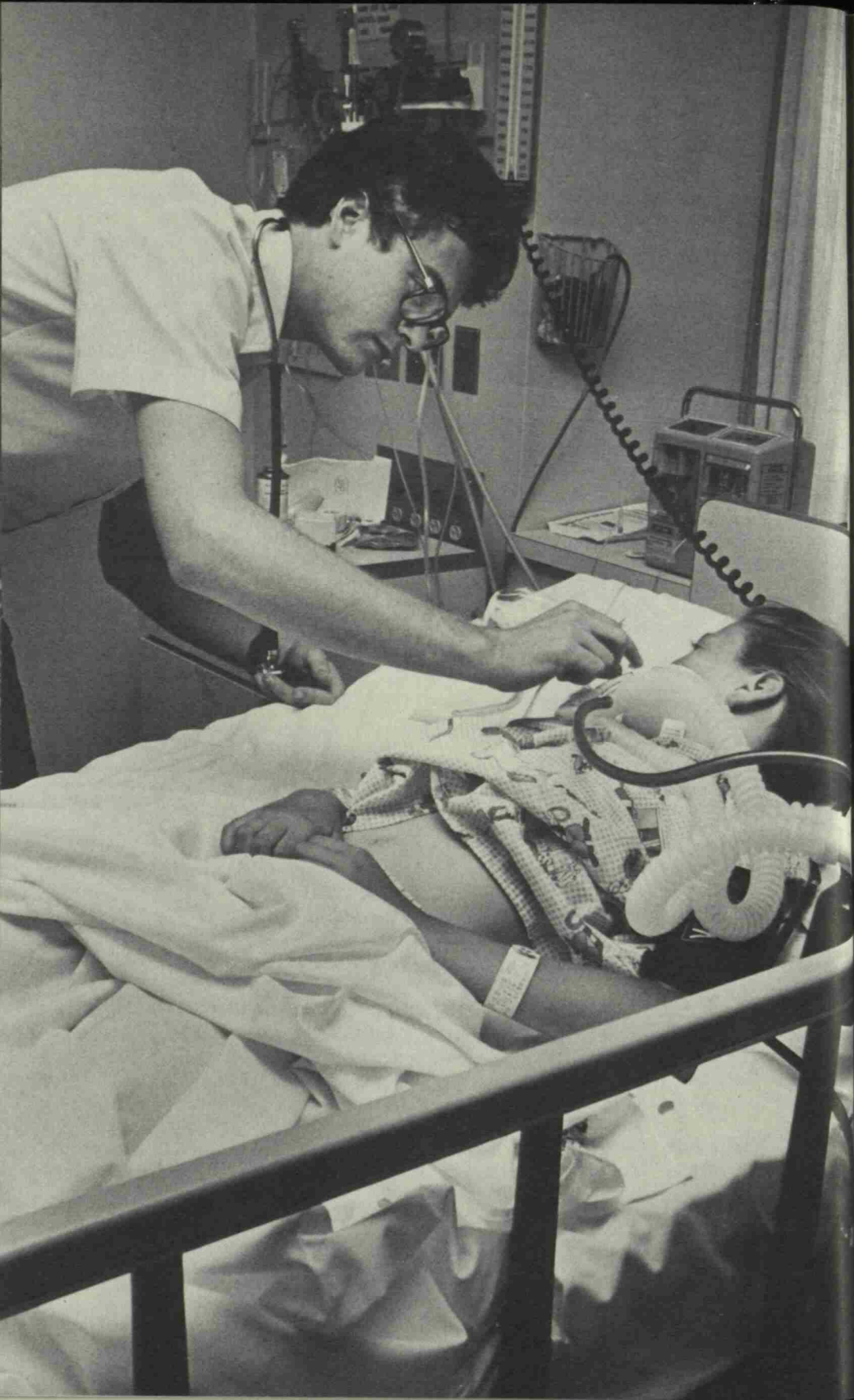
Hospital Medical Board

Standing Committees

Staff Officers of Vanderbilt Clinic

Hospital Staff

House Staff



## Patient-Centered Care: Hallmark of Vanderbilt Hospital

**F**ROM concept through construction, inside and out, the new Vanderbilt University Hospital was designed with the patient in mind.

A twelve-story structure whose windows reflect the sun from many angles, the hospital has been planned to promote relaxation and healing. Growing plants, comfortable furnishings in warm colors, and works of art humanize its environment. The University Hospital sponsors a comprehensive program of concerts and seminars, a patient art library, and closed-circuit television programs, all of which serve to lessen stress and lift the spirits of patients and staff alike.

The hospital's lower floors house the emergency area (serviced by special elevators that convey patients directly to the operating rooms or to labor and delivery), ancillary services (such as EEG and EKG) radiology, twenty operating rooms, an obstetrical floor with nurseries, surgical intensive care units, the pharmacy, the supply distribution system, the clean supply room, mechanical support systems, and a 140-car parking area.

Each of the inpatient towers has a nursing core, so that no room is far from the nurses' station. The building is designed to provide every patient an outside view. A central core, connecting the two patient towers, contains elevators, conference rooms, and waiting rooms for visitors.

Medically related areas have been placed in careful proximity, so that patients needing specialized care can be grouped to best advantage, as in the Neurological Step-Down Unit. Because of Vanderbilt's role as a tertiary care center, specialized treatment and diagnostic facilities have been included in the building. For instance, the laminar flow unit consists of four private rooms kept completely sterile, so that patients can undergo aggressive drug treatment that weakens their normal resistance to infection. The Doppler laboratory utilizes an ultrasound device that can "listen" to the flow of blood and determine from the sound the site of arterial blockage. The evoked-response laboratory conducts non-invasive tests for diagnosing nerve and brain stem conditions.

Communication and distribution systems in the new hospital were developed to help provide quality care on a cost-efficient basis. When a patient pushes the nurse-call button, vital information about her or his condition appears on the CRT screen at the nurses' station, enabling the nurse to respond appropriately without delay. The hospital employs the

unit-dose system of medication, which is safer, more economical, and more efficient. The Spectra, pneumatic tube, and telift systems facilitate communication and distribution.

Patient-centered care is the nursing philosophy that governs the hospital. A specific nurse is assigned to each patient, assuming total responsibility for that patient's care from admission through discharge from the unit. Patient-centered care insures continuity in the patient/nurse relationship and helps to alleviate the stress of hospitalization.

### *Children's Hospital*

Contained within the University Hospital on the fourth, fifth, and sixth floors is Vanderbilt Children's Hospital, designed and built to meet the special needs of children. This facility provides a complete range of medical services and treatment for children from birth through adolescence. Children's Hospital was founded in 1970 with a small staff and limited space, and now in its new facilities has 164 beds and a staff of nearly 500 members.

Children's Hospital includes a nursery and neonatal intensive care unit, pediatric intensive care and stepdown units, surgical units, a psychiatric program, the Junior League Home for long-term care, and outpatient clinics and medical specialties covering virtually all diseases that affect children. As a hospital within the new Vanderbilt Hospital, it has separate main lobby, elevator, emergency room, and radiology facilities. Parents are encouraged to remain with their child, and facilities in the new hospital allow them to do so in comfort. Each room has a day-bed or sleeper chair.

Vanderbilt's Children's Hospital is the only facility of its kind in the mid-South and serves as a referral center for the region. More than half of its patients come from outside Nashville, some from distant states and foreign countries. Children's Hospital is also an important educational resource for medical students and residents in pediatrics and pediatric surgery.

Angel II, a neonatal intensive care unit on wheels, makes well over five hundred trips a year to pick up critically ill newborn infants at regional hospitals and bring them to Vanderbilt where they can receive life-saving specialized medical treatment.

The combined concentration of pediatric research, education, and patient care has led to new techniques and discoveries. Children's Hospital was one of the first hospitals to use artificial ventilation on a newborn. Procedures allowing cardiothoracic surgery for infants were pioneered at Vanderbilt. Other discoveries have come as a result of research in nutrition, infant metabolism, and infectious diseases.

## The Division of Allied Health Professions

Vanderbilt University Hospital conducts training programs in eleven technical areas of allied health professions. One of these, the program in Hearing and Speech Sciences, offers the master's and Ph.D. degrees through Vanderbilt Graduate School. The program in clinical dietetics leads to a master's degree in education, through Peabody College of Vanderbilt University. The other programs are generally post-baccalaureate programs leading to certification in an allied health field or associate degree programs conducted jointly by Vanderbilt and Aquinas Junior College.

*Hearing and Speech Sciences.* The Division of Hearing and Speech Sciences offers the M.A., M.S., and Ph.D. degrees with emphasis in either hearing or speech science. The program, which integrates academic, patient care, and research activities, was one of the first training programs accredited by the Educational Training Board of the American Board of Examiners in Speech Pathology and Audiology.

The master's degree program consists of five consecutive semesters of formal course work, seminars, clinical and research experiences, and a ten-week externship. On completion of the degree requirements, graduates are prepared for certification by the American Speech-Language-Hearing Association. The Ph.D. program, usually requiring three years of study beyond the master's degree, stresses academic and research training.

The Bill Wilkerson Hearing and Speech Center, a private, non-profit corporation that provides services to the communicatively handicapped, is the primary site for the student practicum. The Division of Hearing and Speech Sciences and Bill Wilkerson Center have made numerous research contributions to the understanding of both normal and disordered communicative processes. Facilities at the center include four laboratories devoted solely to research, a large anechoic chamber, an electronics laboratory, and the various clinics. Two of the laboratories are computer based, and the center maintains a terminal linked directly to the University's central computer.

*Program for Specialists in Blood Bank Technology.* The one-year program in blood bank technology is jointly sponsored by the American Red Cross and Vanderbilt University Medical Center. Students in the program, who must be MT (ASCP) technologists with two years experience in blood banking or have a B.S. degree with three years of experience in an accredited blood bank, spend six months of the program at Vanderbilt University Hospital and six months with the Red Cross. Students receive salary for 30 hours of laboratory work a week and pay no tuition unless graduate credit is sought for the program (18 hours toward a master's degree in pathology or science education).

*Program in Cardiovascular Perfusion.* The year-long program in cardiovascular perfusion and perfusion technology prepares graduates for positions as perfusionists in open-heart surgery programs. It is designed for students who have completed a minimum of two years of college, or are registered nurses, or already work in a discipline of medical technology. The program meets the criteria established by the American Board of Cardiovascular Perfusion.

The Department of Thoracic and Cardiac Surgery directs the program in coordination with the Division of Allied Health Professions. Following satisfactory completion of course work and clinical experience, graduates are eligible to apply for board examinations in cardiovascular perfusion.

*Program in Histotechnology.* The study of histotechnology (tissue technology) prepares graduates to carry out laboratory procedures crucial to good patient care. Such procedures include preparation of body fluids, tissues, and bones for microscopic analysis by surgical and anatomical pathologists. Histotechnologists are also employed in non-clinical areas such as petroleum research, agriculture, veterinary medicine, and pharmaceutical and scientific supply houses.

The program consists of college courses in the liberal arts and sciences and in histotechnology. Clinical experiences in local hospitals and an animal diagnostic laboratory begin the first semester of the program and continue throughout.

The two-year histotechnology program is conducted by Aquinas Junior College in association with Vanderbilt. Graduates receive an Associate of Science degree from Aquinas and a certificate from Vanderbilt. They are eligible to sit for the national registry examination given by the American Society of Clinical Pathologists.

*Program in Hospital Dietetics.* The ten-month dietetic internship program provides an opportunity for practical experience in dietetics under the supervision of registered dietitians and leads to an M.Ed degree from Peabody College.

Working with the Dietary Department of the Vanderbilt Medical Center, students gain experience in such areas as food service system management, inpatient dietary service, ambulatory (outpatient) service—including active participation in the Diabetes Research and Training Center and at Dialysis Clinic, Inc.—and metabolic and clinical research.

Through diverse experiences in several kinds of hospitals and community agencies, the dietetic intern achieves an understanding of the nutritionist's role in a variety of settings.

Program applicants must have a baccalaureate degree from an accredited college or university, and be accepted by Peabody College.

*Program in Medical Technology.* The one-year medical technology program operates in the Department of Clinical Pathology under the supervision of a medical director, a program director, and an educational



coordinator. Lectures, laboratory exercises, and clinical laboratory rotation in the areas of chemistry, hematology, coagulation, immunology/serology, blood bank, Red Cross, urinalysis, microbiology, and venipuncture constitute the program.

Applicants must have a baccalaureate degree from an accredited college or university or be eligible to receive their degree after successful completion of the clinical year. Program graduates are eligible to take national and state examinations conducted by certification agencies for clinical laboratory personnel.

*Program in Nuclear Medicine Technology.* The year-long training program in clinical nuclear medicine methodology is designed primarily for students who have completed a minimum of three years of pre-radiologic technology work in an accredited college or university. The program is approved as the fourth-year externship in a baccalaureate degree program at Austin Peay State University, Clarksville, TN and at Belmont College in Nashville.

Students receive training in atomic and nuclear physics, radiochemistry, patient care and nursing, radiation safety, radiobiology, instrumentation, and computer applications, as well as clinical nuclear medicine (both imaging and *in vitro*). A lecture series and clinical laboratory rotations are integral parts of the program.

Program graduates are eligible to take national examinations conducted by certification agencies for nuclear medicine technologists.

*Program in Radiation Therapy Technology.* Facilities for the one-year radiation therapy program are located in the Division of Radiation Oncology at Vanderbilt University Hospital.

Students, who must be graduates of an accredited two-year radiological technology program, spend approximately 1,200 hours in clinical education. Another 800 hours are divided between courses and participation in conferences, tumor boards, and chart rounds.

Following completion of the program, students are eligible to take the national examination for certification conducted by the American Registry of Radiological Technologists. The certified technologist works under the general supervision of a radiation oncologist, applying ionizing radiation in the treatment of malignant disease.

*Program in Radiography.* The program in radiologic technology, which trains students to perform the many varied diagnostic and therapeutic procedures utilizing x-ray and other forms of ionizing radiations, is conducted by Aquinas Junior College in association with the Division of Allied Health Professions.

Clinical experiences begin the first week of the two-year program and continue throughout its duration. Baptist Hospital, St. Thomas Hospital, and Vanderbilt Hospital are all affiliated as clinical sponsors.

Graduates receive an Associate of Science degree from Aquinas and a

certificate of completion from Vanderbilt University, and are eligible to take the national examination give by the American Registry of Radiologic Technologists.

*Program in Respiratory Therapy.* The two-year respiratory therapy program is sponsored jointly by Aquinas Junior College and the Division of Allied Health Professions and leads to an Associate of Science Degree in respiratory therapy from Aquinas.

Designed to assist patients who are suffering from respiratory or related problems, respiratory therapy is a rapidly growing ancillary service in the health field. It includes the administration of oxygen and positive-pressure breathing treatments, as well as therapy with mixed gases and maintenance of mechanical breathing devices. The therapist plays a vital role in emergency resuscitation of victims of cardiac arrest, drowning, suffocation, and electrocution, and aids in the diagnosis of respiratory diseases by performing specialized test procedures.

Graduates of the program are eligible to take the examination leading to certification by the American Registry of Inhalation Therapists.

*Diagnostic Sonographer Program.* The year-long sonography program offers training in the technical and clinical aspects of sonographic imaging. Applicants must have at least two years' experience in a medically-related field, preferably radiology technology.

Course work covers the areas of physics and instrumentation of sonographic imaging; the bio-effects of ultrasound; anatomy, physiology, and pathology pertinent to diagnostic imaging; supervised scanning in obstetrical, gynecological, abdominal, renal, pediatric, and other applications; and daily case review and discussion. Clinical experience is offered at Vanderbilt University Hospital, Baptist Hospital, the Veterans Administration Hospital, and in a private Ob/Gyn office.

Program graduates are eligible to take the Sonographers Registry examination.



# Vanderbilt University Hospital



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DENNIS K. WENTZ, M.D., Director of Medical Services  
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(The Director of the Hospital and the Chairman and the Deputy Chairman of the Hospital Medical Board are ex officio members of all standing and special committees.)

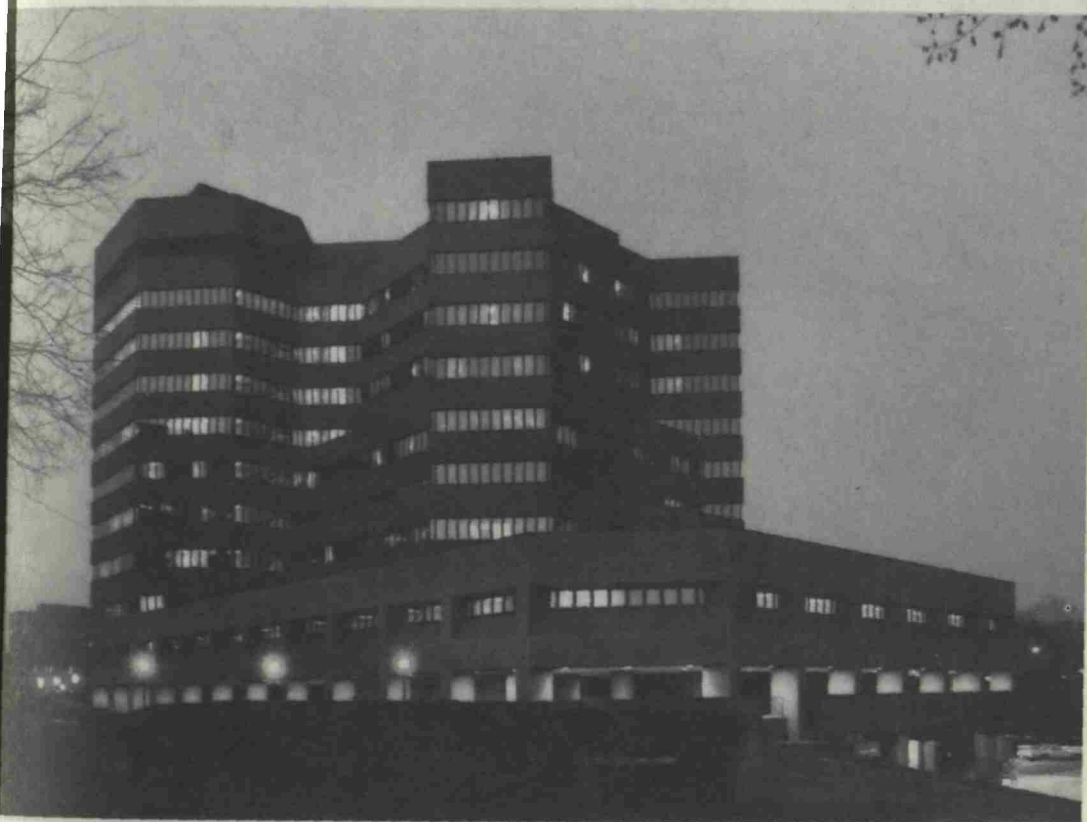
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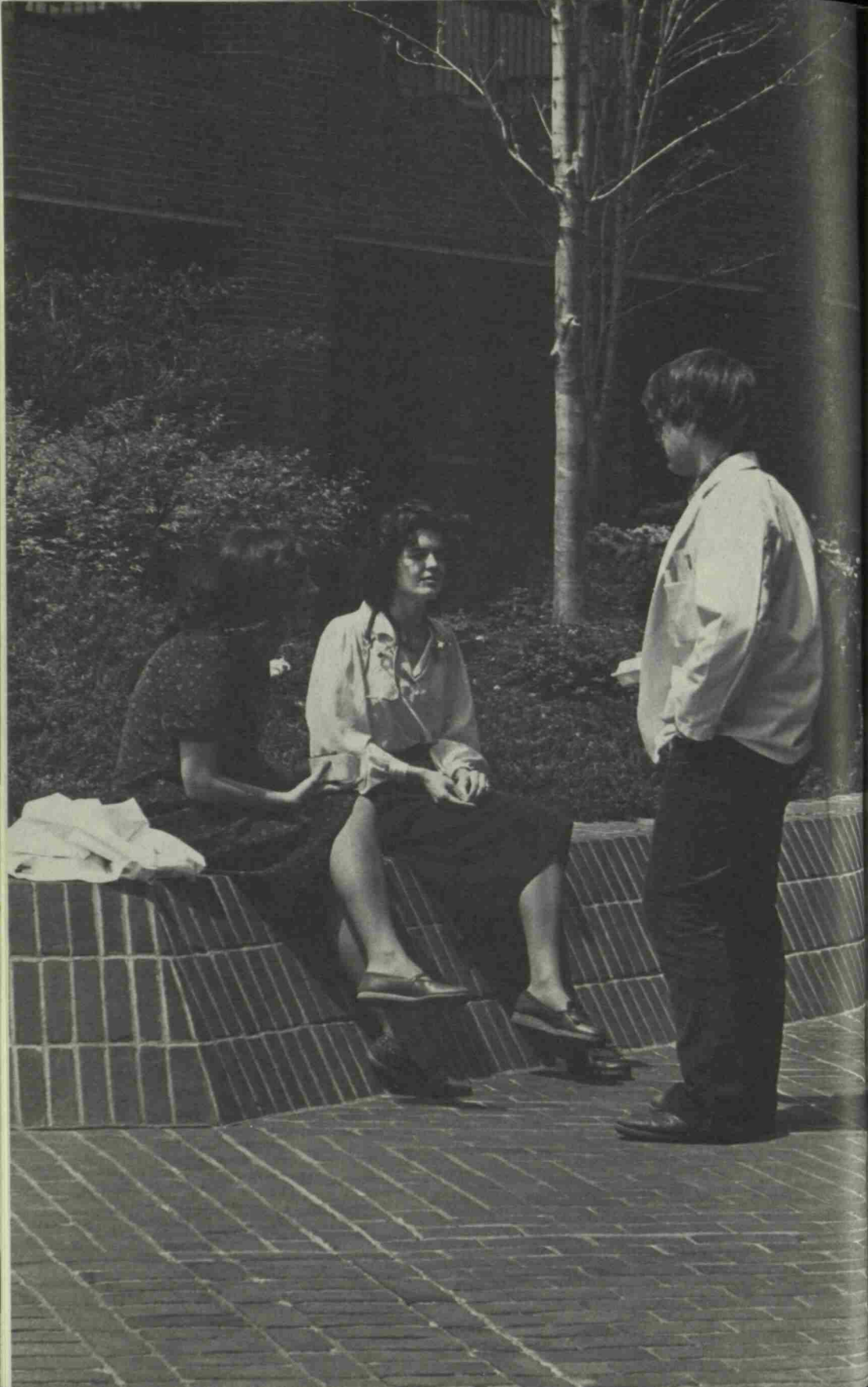
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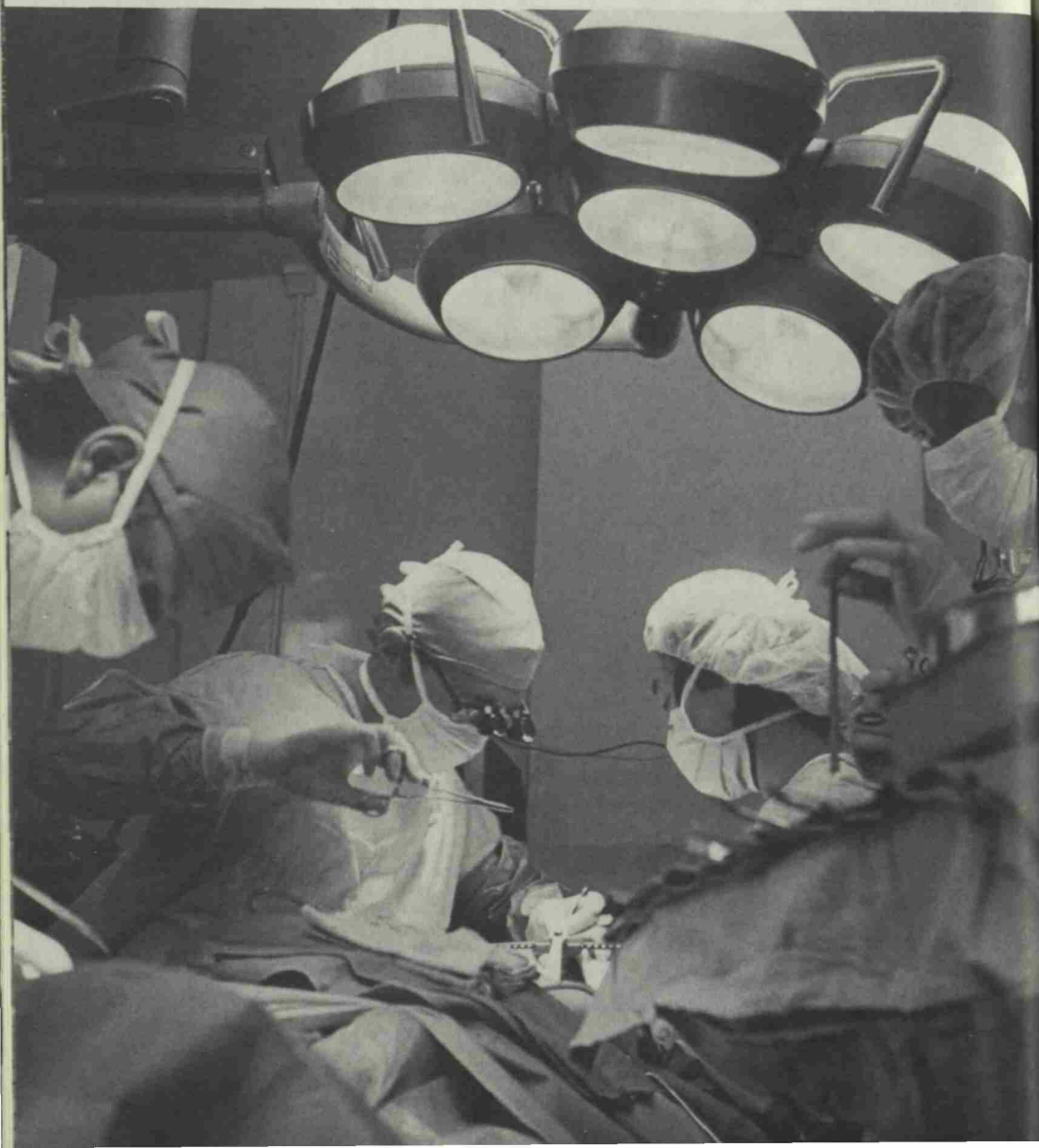
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Erol Genca  
Krishna D. Ghosh  
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 John P. Kinnard  
 Otto M. Kochtitsky  
 Marvin W. Kronenberg  
 Mark J. Koury  
 Sanford B. Krantz  
 William W. Lacy  
 Dana L. Latour  
 Lewis B. Lefkowitz  
 John M. Leonard  
 Michael J. Lichtenstein  
 Grant W. Liddle  
 James E. Loyd  
 George V. Mann  
 Samuel R. Marney, Jr.  
 Ralph W. Massie  
 Guat-Siew L. McKee  
 Lonnie C. McKee, Jr.  
 Thurman D. McKinney  
 Alexander C. McLeon  
 John R. McRae  
 Alvin H. Meyer, Jr.  
 Paul R. Michael  
 Ruth Miller-Frost  
 Michael E. Miller  
 Michael P. Miller  
 Fernando T. Miranda  
 Carl E. Mitchell  
 Douglas P. Mitchell  
 John H. Newman  
 John A. Oates  
 David N. Orth  
 Harry L. Page, Jr.  
 Thomas F. Paine, Jr.  
 Thomas G. Pennington  
 James M. Perry  
 Theodore Pincus  
 Lester L. Porter  
 James S. Powers  
 Ann H. Price

Richard K. Primm  
 Robert S. Quinn  
 David Rabin  
 William B. Ralph, Jr.  
 Lloyd H. Ramsey  
 Frank M. Remberth  
 Lyman J. Roberts II  
 David H. Robertson, Jr.  
 Rose Marie Robertson  
 Kenneth S. Robinson  
 Roscoe R. Robinson  
 Dan M. Roden  
 Howard E. Rosen  
 Marvin J. Rosenblum  
 Sol A. Rosenblum  
 Joseph C. Ross  
 William D. Salmon, Jr.  
 Howard Lee Salyer  
 William Schaffner  
 Stephen Schillig  
 Charles J. Schleupner  
 Richard P. Schneider  
 Herbert J. Schulman  
 John R. Schweikert  
 Addison B. Scoville, Jr.  
 John S. Sergent  
 James R. Sheller  
 Harrison J. Shull  
 Harrison J. Shull, Jr.  
 Lucien C. Simpson  
 Paul E. Slaton  
 Murray W. Smith  
 Raphael F. Smith  
 James R. Snapper  
 W. Anderson Spickard, Jr.  
 Richard S. Stein  
 William J. Stone  
 William David Strayhorn III  
 Paul R. Stumb  
 James N. Sullivan  
 Craig R. Sussman  
 Paul E. Teschan  
 George B. Theil  
 Charles B. Thorne  
 Stephan T. Ticaric  
 Aubrey L. Tucker  
 Jack P. Uetrecht  
 Frank K. VanDevender  
 James W. Ward, Jr.  
 Dennis K. Wentz  
 W. Carter Williams, Jr.  
 James P. Wilson  
 Eugene P. Winter  
 Frank G. Witherspoon  
 Lawrence K. Wolfe  
 Steven N. Wolff  
 Alastair J.J. Wood  
 Raymond L. Woosley  
 Robert J. Workman  
 John L. Wyatt  
 Christina M. Ynares

**Dermatology**

ROBERT N. BUCHANAN, Emeritus Dermatologist-in-Chief

Melvin L. Elson  
James R. Hamilton  
William B. Harwell, Jr.  
Lloyd E. King, Jr.

Alvin H. Meyer, Jr.  
Howard Lee Salyer  
Frank G. Witherspoon

**Neurology**

GERALD M. FENICHEL, Neurologist-in-Chief

Alfred S. Callahan III  
William M. Clark  
Gary W. Duncan  
Abdolreze Ehyai  
Owen B. Evans  
Anthony W. Kilroy  
Howard S. Kirshner

Georgia D. Montouris  
Patricia M-E Moore  
Barbara J. Olson  
Bertram E. Sproffkin  
John S. Warner  
David L. Webster  
Dianne S. Wolf

**Obstetrics and Gynecology**

LONNIE S. BURNETT, Obstetrician &amp; Gynecologist-in-Chief

Larry T. Arnold  
Harry Baer  
Donald R. Barnett  
D. Scott Bayer  
Russell T. Birmingham  
Michael R. Bishop  
Frank H. Boehm  
James M. Brakefield  
Douglas H. Brown  
Roger B. Burrus  
Guillermo Cadens  
Benjamin H. Caldwell  
Peter S. Cartwright  
Jill F. Chambers  
Jackson D. Cothren  
George B. Crafton  
Angus M. Crook  
James F. Daniell  
Richard J. Davis  
Robert T. Dodd  
Joe M. Edwards  
James W. Ellis  
Stephen S. Entman  
Frederick L. Finke  
Henry W. Foster  
Charle M. Gill  
Paul A. Green, Jr.  
Marvin G. Gregory  
Erich B. Groos  
James H. Growdon, Jr.

Carl M. Herbert  
Byase K. Hibbett III  
Charlie J. Hobby  
James W. Johnson  
Howard W. Jones III  
Orrin L. Jones, Jr.  
Kerry L. Kline  
Ralph R. Kling  
Horace T. Lavelly, Jr.  
Harold N. Lovvorn  
Wayne S. Maxson  
Marcia Ann Montgomery  
Betty S. Neff  
Roy W. Parker  
C. Gordon Peerman, Jr.  
Donald E. Pittaway  
Richard E. Pressley  
Ron N. Rice  
Mitchell K. Sanders  
Gilmore M. Sanes, Jr.  
Madison H. Saratt  
Stephen M. Staggs  
Robert H. Tosh  
Anthony E. Trabue  
John E. VanHooydonk  
Ramona Walsh  
Anne Colston Wentz  
Norman E. Witthauer  
Carl W. Zimmerman

**Ophthalmology**

JAMES H. ELLIOTT, Ophthalmologist-in-Chief

Edwin D. Batchelor  
John B. Bond  
George W. Bounds  
James Edmund Burnes

Abraham P. Cheij  
Roy C. Ezell  
Wallace H. Faulk  
James W. Felch

Stephen S. Ferman  
 Walter W. Frey  
 Robert R. Henderson  
 G. Allen Lawrence  
 James P. Loden  
 Reginald S. Lowe, Jr.  
 Philip L. Lyle  
 Lee R. Minton  
 Denis M. O'Day

John M. Omohundro III  
 Fred A. Rowe  
 Deborah S. Ruark  
 Joseph W. Scobey  
 Charlie R. Smith  
 Willard O. Tirrill III  
 Joseph W. Wahl  
 Gates J. Wayburn, Jr.  
 Ralph E. Wesley

### Orthopedics and Rehabilitation

DAN M. SPENGLER, Orthopedist-in-Chief  
 Dave A. Alexander, Jr.  
 John C. Brothers  
 Arthur Leroy Brooks  
 John Bruno III  
 George K. Carpenter, Jr.  
 Wesley L. Coker  
 Vincent R. Couden  
 Shannon R. Curtis  
 Mark A. Doyne  
 Don L. Eyler  
 Harold A. Ferguson  
 Michael C. Ferrell  
 S. Benjamin Fowler  
 Donald L. Gaines  
 William M. Gavigan  
 David W. Gaw  
 Neil E. Green  
 Arnold Haber  
 Charles M. Hamilton  
 William J. Jekot  
 Robert K. Johnston

David S. Jones  
 Frank E. Jones  
 John W. Lamb  
 Lawrence P. Laughlin  
 Thomas J. Limbird  
 Albert Lipscomb  
 John C. McInnis  
 Michael A. Milek  
 Andrew H. Miller  
 Charles G. Norton  
 Thomas F. Parrish  
 Eugene M. Regen  
 Eugene M. Regen, Jr.  
 Barrett F. Rosen  
 Ronald E. Rosenthal  
 Robert V. Russell  
 Norman L. Sims  
 Robert B. Snyder  
 Robert E. Stein  
 E. Dewey Thomas  
 John M. Wampler

### Pathology

WILLIAM H. HARTMANN, Pathologist-in-Chief  
 Mary C. Abram  
 William J. Boyd  
 Robert D. Collins  
 John B. Cousar, Jr.  
 Anh H. Dao  
 Ben W. Davis  
 Carla M. Davis  
 Thomas C. Delvaux, Jr.  
 Alan D. Glick  
 Fred Gorstein  
 Louis S. Graham  
 George F. Gray, Jr.  
 Susan A. Halter  
 Jerry K. Humphreys  
 Alfred G. Kasselberg  
 Virgil S. LeQuire  
 Fred V. Lucas

Thomas E. Mason  
 Lilia D. Mauricio  
 William M. Mitchell  
 Robert E. Mrak  
 Martin G. Netsky  
 David L. Page  
 Adelisa L. Panlilio  
 Fritz F. Parl  
 Jeffrey C. Roche  
 Fred W. Ryden  
 John L. Shapiro  
 Charles W. Stratton  
 John B. Thomison  
 Renu Virmani  
 Charles H. Wallas  
 Song W. Wong

### Pediatrics

DAVID T. KARZON, Pediatrician-in-Chief  
 William A. Altemeier III

Luther A. Beazley

Eugene L. Bishop  
 Lindsay K. Bishop  
 Carla Bloedel  
 Robert C. Bone  
 Robert J. Boucek  
 Ian M. Burr  
 Robert E. Burr  
 Sam W. Carney, Jr.  
 Norman M. Cassell  
 Eric M. Chazen  
 Amos Christie  
 Robert B. Cotton  
 Lisa Josephine Craft  
 William M. Doak  
 William D. Donald  
 Paul Douthitt  
 Ray L. Dubuisson  
 Mary Catherine Dundon  
 Kathryn M. Edwards  
 John P. Fields  
 William F. Fleet, Jr.  
 Fayez K. Ghishan  
 Paul C. Gomez  
 Thomas P. Graham  
 Roland W. Gray  
 John W. Green  
 Ralph M. Greenbaum  
 Harry L. Greene  
 Douglas C. Henry  
 Gerald B. Hickson  
 Charles S. Hirshberg  
 Robert L. Janco  
 Bruce M. Kauder  
 Lowry D. Kirby  
 Leonard J. Koenig  
 Alexander R. Lawton  
 Joseph F. Lentz  
 William R. Long  
 Rodney A. Lorenz  
 John N. Lukens  
 Robert C. MacDonell  
 Robert E. Mallard  
 George C. Martin  
 Raymond L. Meneely  
 Mark John Merkens

David Moroney  
 Joe P. Moss  
 Jose Roberto Moran-Perdomo  
 Ellen C. Perrin  
 James M. Perrin  
 Jennifer L. Najjar  
 Dewey G. Nemec  
 John T. Netterville  
 Kenneth T. North  
 Susan M. O'Connor  
 Mark D. Parrish  
 Elizabeth P. Pierce  
 Diane J. Pincus  
 James S. Price  
 Karen H. Rhea  
 Jorge Rojas  
 James S. Roloff  
 Dan S. Sanders, Jr.  
 C. Gordon Sell  
 Sarah H. Sell  
 E. Conrad Shackelford, Jr.  
 Jayant P. Shenai  
 William T. Stonecker  
 Alfred E. Slonim  
 Charles N. Spencer  
 Joseph Steranka  
 Mildred T. Stahlman  
 Charles A. Stilwell, Jr.  
 Joe M. Strayhorn  
 Hakan W. Sundell  
 Richard P. Taber  
 Steven M. Tate  
 David D. Thombs  
 Dorothy J. Turner  
 Robert L. VanDervoort, Jr.  
 Larry B. Vogler  
 William B. Wadlington  
 Ethel Walker  
 Arville V. Wheeler  
 Thomas C. Whitworth  
 Bernard A. Wiggins  
 Erle E. Wilkinson  
 George W. Wood  
 Peter F. Wright  
 Thomas B. Zertoss, Jr.

## Psychiatry

MICHAEL H. EBERT, Psychiatrist-in-Chief  
 Georgina A. Abisellan  
 Robert W. Adams  
 Lori M. Adelson  
 Edward Arnold  
 Harvey Asher  
 Thomas A. Ban  
 Ralph I. Barr  
 David Barton  
 Otto Billig  
 Henry B. Brackin, Jr.  
 Rhonda Kay Brennan  
 Thomas W. Campbell  
 Pietro Castelnuevo-Tedesco

Charles Corbin, Jr.  
 James H. Crecraft  
 Miles K. Crowder  
 Jesse E. Dozier  
 Joseph H. Fishbein  
 Charles V. Ford  
 Fay M. Gaskins  
 Edmon L. Green  
 Marc H. Hollender  
 Frederick T. Horton, Jr.  
 Harold W. Jordan  
 William D. Kenner  
 Ronald-Frederic C. Kourany

Kent Kyger  
Sandra R. Leavell  
Thomas P. Logan  
Roy J. Mathew  
James R. McFerrin  
James B. McGehee  
James L. Nash  
William F. Orr  
J. Kirby Pate  
William M. Petrie  
Andres J. Pumariega  
Pauline L. Rabin

### *Psychologists*

Mark P. Kelly  
Susan Lewis

### **Radiation Oncology**

ARNOLD W. MALCOLM, Radiation Oncologist-in-Chief

A. Sahib Al-Abdulla  
Marion G. Bolin  
Eassa-Helmy M. Eassa

Robert N. Reynolds  
Eric Gordon Schendel  
William F. Sheridan, Jr.  
Stanley S. Snow  
Frank W. Stevens, Jr.  
Frank W. Stevens, Sr.  
C. Richard Treadway  
Charles E. Wells  
Jane R. Weinberg  
Melbourne A. Williams  
Dennis C. Workman

Howard B. Roback  
Warren W. Webb

Stephanie L. Fertman  
Steven L. Stroup

### **Radiology**

A. EVERETTE JAMES, JR., Radiologist-in-Chief

Joseph H. Allen  
Craig M. Coulam  
Joseph Diggs  
Frank M. Eggers II  
Arthur C. Fleischer  
Samuel Julian Gibbs  
Richard M. Heller  
Hans-Henrik J. Jacobsen  
A. C. Johnson  
Jeremy J. Kaye  
Sandra G. Kirchner

Murray J. Mazer  
Elmer R. Nance  
C. Leon Partain  
Henry P. Pendergrass  
Thomas A. Powers  
Anne C. Price  
F. David Rollo  
Max I. Shaff  
Clyde W. Smith  
Alan C. Winfield  
William S. Witt

## **Surgical Sciences**

### **Surgery**

JOHN L. SAWYERS, Surgeon-in-Chief

Naji N. Abumrad  
Robert B. Adkins, Jr.  
Terry Allen  
Jeanne Ballinger  
Edmund W. Benz  
Stanley Bernard  
Gayle S. Blouis  
Robert L. Bomar, Jr.  
Benjamin F. Byrd, Jr.  
Kenneth L. Classen  
Joseph M. Crane  
Paul S. Crane  
William Andrew Dale

John Lucian Davis  
Richard H. Dean  
Harold C. Dennison, Jr.  
George E. Duncan  
William H. Edwards  
Parker D. Elrod  
John L. Farringer, Jr.  
Benjamin Fisher  
David M. Glassford  
Walter G. Gobbel, Jr.  
Herschel A. Graves, Jr.  
Roy G. Hammonds  
John L. Herrington, Jr.

George W. Holcomb, Jr.  
 Robert W. Ikard  
 William D. Johnston  
 James P. Lester  
 Malcolm R. Lewis  
 Conn M. McConnell  
 Matthew C. McMurray  
 Joe M. Miller  
 Francis M. Minch  
 Joseph L. Mulherin, Jr.  
 Wallace W. Neblett  
 I. Armistead Nelson  
 Oscar F. Noel  
 Philip J. Noel, Jr.  
 James Patrick O'Leary  
 Jefferson C. Pennington, Jr.

David R. Pickens, Jr.  
 Roy J. Renfro  
 Vernon H. Reynolds  
 Robert E. Richie  
 Douglas H. Riddell  
 Lansdon B. Robbins II  
 Louis Rosenfeld  
 Robert N. Sadler  
 H. William Scott, Jr.  
 Harrison H. Shoulders  
 Bruce M. Smith  
 Marion B. Tallent, Jr.  
 Richard B. Terry  
 George Waterhouse  
 John K. Wright

### Dentistry

H. DAVID HALL, Oral Surgeon-in-Chief  
 George A. Adams  
 Herbert A. Crockett  
 Bruce T. Greenwood

Phillip E. Hutcheson  
 Jack A. Tyson

### Oral Surgery

H. DAVID HALL, Oral Surgeon-in-Chief  
 Samuel O. Banks  
 E. Thomas Carney  
 Elmore Hill  
 William C. King  
 Fred M. Medwedeff

James W. Nickerson, Jr.  
 Stanley C. Roddy, Jr.  
 Jack C. Schmitt  
 Charles W. Williams

### Neurological Surgery

WILLIAM F. MEACHAM, Neurosurgeon-in-Chief  
 Vaughan Allen  
 Verne E. Allen  
 Arthur G. Bond  
 Cully A. Cobb, Jr.  
 Arthur R. Cushman  
 James W. Hays

Ray W. Hester  
 Everette I. Howell  
 Warren F. McPherson  
 Arnold M. Meirowsky  
 Charles D. Scheibert  
 Harold P. Smith

### Otolaryngology

J. Clyde Alley  
 Ronald C. Cate  
 Jerrall P. Crook  
 William G. Davis  
 William L. Downey  
 Hiranya C. K. Gowda

Daniel R. Hightower  
 Thomas W. Holzen  
 Charles G. Jackson  
 William G. Kennon, Jr.  
 Robert C. Owen

### Pediatric Surgery

WALLACE W. NEBLETT III, Pediatric Surgeon-in-Chief  
 George W. Holcomb, Jr.

**Plastic Surgery**

JOHN B. LYNCH, Chief of Plastic Surgical Service  
David G. Bowers  
Glenn S. Buckspan  
Reuben A. Bueno  
James H. Fleming  
Kevin F. Hagan  
Charles W. MacMillan  
James J. Madden, Jr.

G. Patrick Maxwell  
Takis Patikas  
Riley Rees  
Greer Ricketson  
Robert B. Shack  
Kirkland W. Todd

**Thoracic and Cardiac Surgery**

HARVEY W. BENDER, JR. Chief of Thoracic and Cardiac Service  
William C. Alford, Jr.  
Phillip P. Brown  
George R. Burrus  
David M. Glassford  
John William Hammon, Jr.  
Robert A. Hardin

Jackson Harris  
J. Kenneth Jacobs  
Richard L. Prager  
John L. Sawyers  
William S. Stoney  
Clarence S. Thomas, Jr.

**Urological Surgery**

FREDERICK K. KIRCHNER, JR., Acting Urologist-in-Chief  
Robert B. Barnett  
H. Victor Braren  
Oscar W. Carter  
William B. Crenshaw  
Charles W. Eckstein  
Robert H. Edwards  
Robert B. Faber  
John R. Furman  
Keith Hagan  
Albert P. Isenhour, Jr.

Robert E. McClellan  
David H. Morgan  
Tom E. Nesbitt  
Phillip P. Porch  
Robert A. Sewell  
John D. Trapp  
John M. Tudor  
Bruce I. Turner  
John J. Warner  
Claude H. Workman III



# House Staff 1982-83



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

Paul Arthur Abbey	General Surgery	L-2 Resident
Peter A. Accetta	Pathology	L-4 Resident
Richard B. Alexander	General Surgery	L-2 Resident
Allen F. Anderson	Orthopedics	L-6 Chief Resident
Jean R. Anderson	Obstetrics-Gynecology	L-4 Chief Resident
Jo Anne Anderson	Pediatrics	L-1 Resident
Rex E. H. Arendall II	Neurosurgery	L-6 Chief Resident
James B. Atkinson	Pathology	L-2 Resident
Ashok K. Bajaj	Medicine	L-1 Resident
Peter W. Balkin	Radiology	L-2 Resident
William H. Ballinger, Jr.	Ophthalmology	L-4 Chief Resident
Graham A. Barden III	Pediatrics	L-1 Resident
John A. Barnard III	Pediatrics	L-3 Resident
David W. Barnes	Medicine	L-2 Resident
Ruth F. Barron	Pediatrics	L-1 Resident
Ronald M. Barton	Plastic Surgery	L-7 Chief Resident
W. Cooper Beazley	Orthopedics	L-6 Chief Resident
Robert E. Bechtold	Radiology	L-4 Chief Resident
S. Kenn Beeman	General Surgery	L-1 Resident
Steven Roy Bennett	Pathology	L-1 Resident
Jack L. Berger	Radiology	L-4 Resident
Bruce Robert Beyers	Obstetrics-Gynecology	L-2 Resident
Edward L. Bitseff, Jr.	General Surgery	L-3 Resident
Robert E. Bledsoe, Jr.	Obstetrics-Gynecology	L-1 Resident
Charles R. Bloomer	Oral Surgery	L-3 Resident
Randall R. Blouin	Neurology	L-4 Resident
Michael K. Bluett	General Surgery	L-3 Resident
Thomas J. Boland	Oral Surgery	L-1 Resident
John W. Boldt, Jr.	Medicine	L-1 Resident
James P. Bolling	Ophthalmology	L-3 Resident
Frederic W. Bollow	Anesthesiology	L-2 Resident
Roger Anthony Bonau	General Surgery	L-2 Resident
Sidney W. Bondurant	Obstetrics-Gynecology	L-4 Chief Resident
Stephen M. Borowitz	Pediatrics	L-3 Resident
Andrew Brasch	Neurology	L-1 Resident
Donna L. Bratton	Pediatrics	L-3 Resident
Margaret M. Brennan	Medicine	L-2 Resident
Phillip L. Bressman	Obstetrics-Gynecology	L-4 Chief Resident
John W. Brock III	Urology	L-5 Chief Resident
A. Scott Brooks	Pediatrics	L-2 Resident
Michael W. Brueggeman	Neurology	L-3 Chief Resident
Michael E. Brun	Radiology	L-2 Resident
Deborah M. Bryant	Pediatrics	L-3 Resident
Harry W. Buchanan IV	Ophthalmology	L-4 Chief Resident
Randy J. Bucksman	General Surgery	L-3 Resident
Deland D. Burks	Radiology	L-3 Resident
Shawn Burwell	Obstetrics-Gynecology	L-3 Resident
Suzanne Dowdy Butler	Psychiatry	L-4 Resident

Preston W. Campbell	Pediatrics	L-3 Resident
Jeffrey A. Canter	Medicine	L-2 Resident
Donald R. Cantley	Pathology	L-4 Resident
Peggy L. Carlson	Orthopedics	L-4 Resident
Will Y. Carlton	Psychiatry	L-3 Resident
Mark M. Carter	Radiology	L-1 Resident
Terrence T. Casey	Pathology	L-2 Resident
Christopher U. Cates	Medicine	L-1 Resident
James R. Cato	Medicine	L-6 Chief Resident
Brian W. Christman	Medicine	L-2 Resident
Mark R. Christofersen	Orthopedics	L-5 Resident
Christopher W. Clardy	Pediatrics	L-2 Resident
Cheryl Anne Clark	Medicine	L-2 Resident
Gregg R. Clifford	Medicine	L-1 Resident
Stephen R. Coleman	Pediatrics	L-3 Resident
Allen R. Craig	Psychiatry	L-1 Resident
C. Michael Currie	Radiology	L-2 Resident
Laurel vonHoffmann Curzi	Medicine	L-3 Resident
David G. Daniel	Psychiatry	L-1 Resident
Joseph F. Davies	General Surgery	L-1 Resident
John A. Day, Jr.	Medicine	L-2 Resident
John R. Dein	General Surgery	L-2 Resident
Joseph B. DeLozier III	General Surgery	L-1 Resident
David P. Dempsher	Pediatrics	L-1 Resident
Rodney L. Dennis	General Surgery	L-2 Resident
Steven C. Dennis	General Surgery	L-1 Resident
Michael P. Diamond	Obstetrics-Gynecology	L-2 Resident
Christine Z. Dickinson	Nuclear Medicine	L-4 Resident
Carol R. DiRaimondo	Medicine	L-3 Resident
Charles V. DiRaimondo	Orthopedics	L-3 Resident
Janet Lee Dittus	Obstetrics-Gynecology	L-4 Chief Resident
Anabella M. Dones	Anesthesiology	L-4 Resident
Steven H. Dowlen	Medicine	L-3 Resident
Robert J. Dray	Urology	L-4 Resident
Raymond G. Dufresne, Jr.	Medicine	L-3 Resident
Laura Lu Dunbar	General Surgery	L-4 Resident
John Frederick Dunn	General Surgery	L-2 Resident
Webb J. Earthman	Radiology	L-1 Resident
Palmer Edwards	Psychiatry	L-4 Co-Chief Resident
William H. Edwards, Jr.	General Surgery	L-2 Resident
Edward A. Eikman	Radiology	L-3 Resident
Robert S. Ellison	Pediatrics	L-3 Resident
Harold G. Erath, Jr.	Thoracic Surgery	L-8 Chief Resident
John E. Erpenbach	Anesthesiology	L-2 Resident
Thomas W. Ertzner	Nuclear Medicine	L-2 Resident
Warren D. Ervin	Pediatrics	L-3 Resident
Jeffrey B. Eskind	Medicine	L-3 Resident
Arturo F. Espinola	Anesthesiology	L-2 Resident
Jan Ellen Evans	Medicine	L-1 Resident
Conard F. Failing III	Medicine	L-3 Resident
David K. Falk	Dermatology	L-3 Resident
Randall M. Falk	General Surgery	L-2 Resident
Thomas C. Farrar	Anesthesiology	L-3 Resident
Thomas K. Fehring	Orthopedics	L-3 Resident
Terri L. Fehrman	Psychiatry	L-3 Resident
Will E. Ferguson	Anesthesiology	L-3 Resident
Allan S. Fielding	Neurosurgery	L-5 Resident

Kathleen F. Fischer	Medicine	L-2 Resident
George E. Fischmann	Medicine	L-3 Resident
Charles P. Fitzgerald	Medicine	L-3 Resident
John F. K. Flanagan	Anesthesiology	L-1 Resident
Philip E. Fleming	Plastic Surgery	L-4 Resident
Felix Andrew Fly	Medicine	L-1 Resident
Agnes B. Fogo	Pathology	L-1 Resident
Daniel M. Foley	Obstetrics-Gynecology	L-4 Chief Resident
Benjamin P. Folk III	Medicine	L-2 Resident
David G. Folks	Psychiatry	L-4 Resident
Dennis C. Ford	Anesthesiology	L-2 Resident
Daniel F. Frederick	Oral Surgery	L-1 Resident
D. Catherine Fuchs	Psychiatry	L-1 Resident
Howard A. Fuchs	Medicine	L-2 Resident
Carlos H. Gama	Neurology	L-1 Resident
Richard W. Garman, Jr.	Medicine	L-3 Resident
Alfred L. George, Jr.	Medicine	L-1 Resident
Edward B. Gerhardt	General Surgery	L-2 Resident
Jeffrey K. Giguere	Medicine	L-3 Resident
P. Pressly Gilbert	Orthopedics	L-6 Chief Resident
David T. Gilliam	Child Psychiatry	L-5 Resident
MaryAnn Goldstein	Pediatrics	L-1 Resident
Richard E. Goldstein	General Surgery	L-1 Resident
Bruce R. Goodman	Obstetrics-Gynecology	L-1 Resident
Michael C. Gosney	Anesthesiology	L-2 Resident
Barney S. Graham	Medicine	L-6 Chief Resident (NGH)
James Russell Green III	Anesthesiology	L-2 Resident
Richard W. Greene	Psychiatry	L-2 Resident
Susan B. Gregg	Pathology	L-4 Resident
William J. Gregory	Medicine	L-2 Resident
Joe Asa Griffin III	General Surgery	L-1 Resident
Arthur Grimball	General Surgery	L-5 Chief Resident
Thomas H. Grote	Medicine	L-1 Resident
William B. Gunter, Jr.	Obstetrics-Gynecology	L-1 Resident
Steven P. Hadesman	Medicine	L-3 Resident
Curtis J. Hagenau	Medicine	L-1 Resident
Stephen B. Hall	Medicine	L-1 Resident
Thomas J. Halloin	Obstetrics-Gynecology	L-3 Resident
James R. Haltom	Pediatrics	L-4 Chief Resident
David R. Harding	Radiology	L-3 Resident
John R. Harkess	Medicine	L-1 Resident
Wesley J. Harris	Obstetrics-Gynecology	L-3 Resident
Barbara J. Hartkop	Obstetrics-Gynecology	L-2 Resident
William O. Hartness	Medicine	L-3 Resident
Linda L. Hawkins	Psychiatry	L-3 Resident
James Taylor Hays	Medicine	L-3 Resident
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Madan V. Kulkarni	Radiology	L-5 Resident
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Jan S. Stallings	Medicine	L-1 Resident

Vaughn A. Starnes	General Surgery	L-6 Resident
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Linda K. Walker	Pediatrics	L-1 Resident
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Thomas D. Ward	Medicine	L-3 Resident
Henry Geoffrey Watson	Medicine	L-1 Resident
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Chris J. Wehr	General Surgery	L-2 Resident
Gary Hall Weiss	General Surgery	L-1 Resident
Edward B. Weller	Orthopedics	L-4 Resident
Peter J. Wells	Medicine	L-1 Resident
Mark Henry Werner	Neurology	L-2 Resident
James C. West, Jr.	Urology	L-4 Resident
William S. West	Psychiatry	L-1 Resident
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Dennis Ray Whaley	Radiology	L-1 Resident
Arthur P. Wheeler	Medicine	L-1 Resident
Melissa Anne Will	Pediatrics	L-1 Resident
Bradley V. Williams	Psychiatry	L-2 Resident
Bryan Hadley Wilson	Medicine	L-3 Resident
Edward T. Wolanski	Obstetrics-Gynecology	L-1 Resident
Glenn Stewart Wolfson	Ophthalmology	L-2 Resident

Karen S. Woncik	Neurosurgery	L-3 Resident
Bryan D. Wood	General Surgery	L-1 Resident
Suzanne L. Worsham	Pediatrics	L-2 Resident
Ellen Payne Wright	Pathology	L-2 Resident
George D. Wright	Medicine	L-2 Resident
Malcolm G. Wright	Medicine	L-2 Resident
Mary I. Yarbrough	Medicine	L-2 Resident
Randy J. Yarbrough	Obstetrics-Gynecology	L-1 Resident
Michael D. Yates	General Surgery	L-1 Resident
Samuel K. Yu	Anesthesiology	L-4 Resident
Edward M. Zagula	Urology	L-4 Resident
James F. Zakem	Radiology	L-4 Chief Resident
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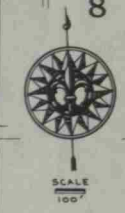
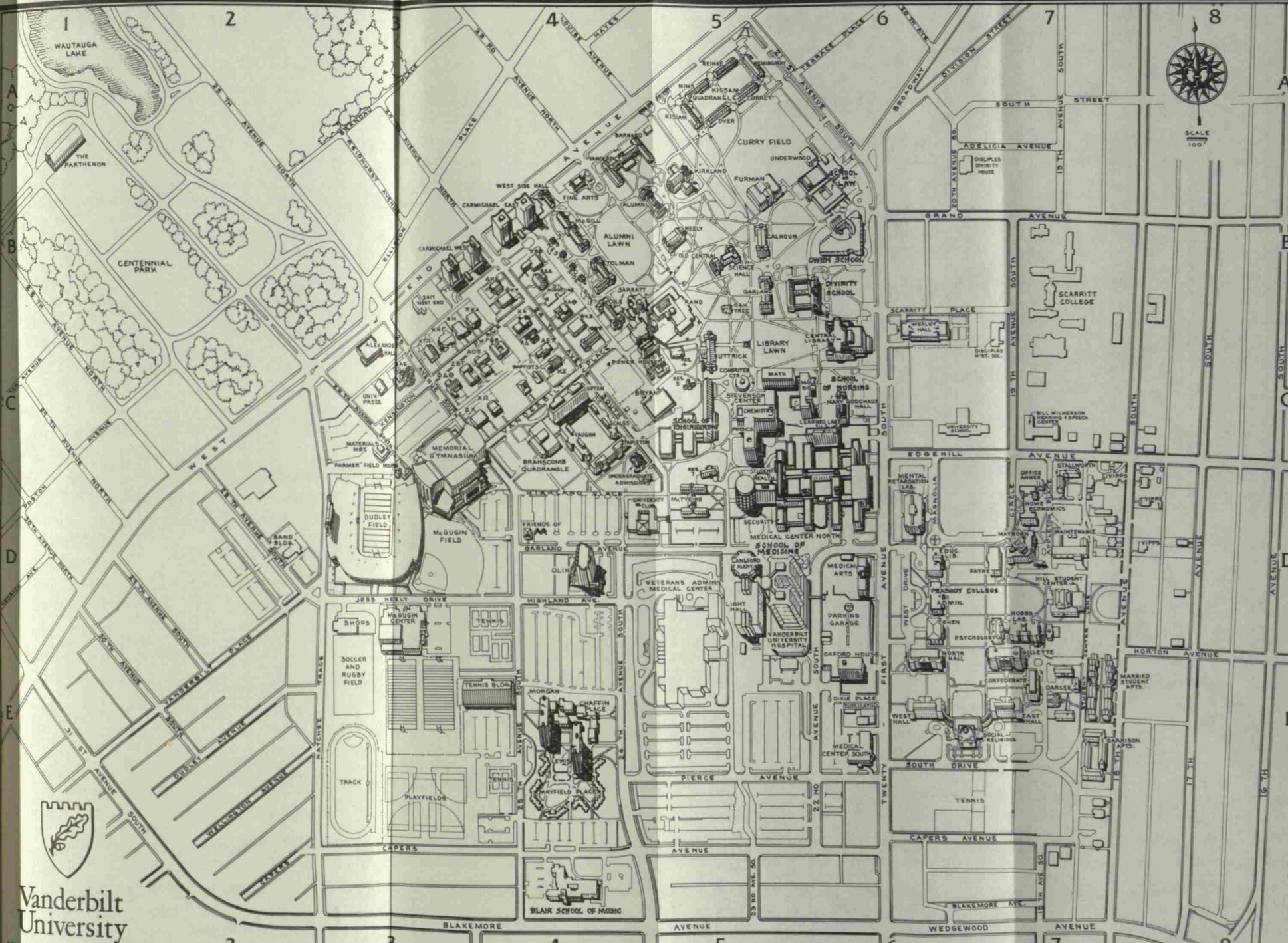



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**Vanderbilt University**  
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# *Communicating With The School of Medicine*

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## **General academic matters**

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Nashville, Tennessee 37232

## **Graduate School admissions**

Office of the Dean  
Graduate School  
336 Kirkland Hall  
Vanderbilt University  
Nashville, Tennessee 37240

## **Employment opportunities for spouses**

Vanderbilt University Employment Center  
Box 160  
Peabody College  
Nashville, Tennessee 37203