

The Bulletin of
Vanderbilt University 1990/91

Medical Center



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THE BULLETIN OF VANDERBILT UNIVERSITY
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Policies concerning non-curricular matters and concerning withdrawal for medical or emotional reasons will be found in the *Student Handbook*.

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Vanderbilt University Medical Center







Medical Center

School of Medicine
School of Nursing
University Hospital



Vanderbilt
University
1990/91

Containing general information
appointments and courses of study
for the 1990/91 session
corrected to 30 June 1990
Nashville

School of Medicine Calendar 1990/91

FALL SEMESTER 1990

Registration and classes begin 4th year and 1/3 of 3rd year class / Monday 9 July
Registration and classes begin 1/3 of 3rd year class / Monday 6 August
Registration 2nd year / Monday 20 August to 21 August
Registration 1st year / Monday 20 August to 22 August
Classes begin 1st year / Thursday 23 August
Classes begin 2nd year / Wednesday 22 August
Labor Day holidays for 1st, 2nd, and 4th year classes / Monday 3 September
Registration and classes begin 1/3 of 3rd year class / Tuesday 4 September
Midterm exams 2nd year class / Monday 22 October to 25 October
Fall break 1st year class / Wednesday 24 October to 28 October
Fall break 2nd year class / Friday 26 October to 28 October
Thanksgiving holidays / Thursday 22 November to 25 November
Exam period elective courses 1st and 2nd years / Monday 10 December to 14 December
Instruction ends required courses / Friday 14 December
Exam period required courses 1st and 2nd years / Monday 17 December to 21 December
Fall semester ends / Friday 21 December
Holidays / Saturday 22 December to Monday 6 January

SPRING SEMESTER 1991

Spring semester begins / Monday 7 January
Midterm exams 1st year class / Monday 25 February to 1 March
Spring holidays 1st and 2nd years / Saturday 2 March to 10 March
Spring holidays 3rd year (Med, Surg) / Saturday 16 March to 24 March
Spring holidays 4th year / Wednesday 20 March to 24 March
National Boards (Part II) 4th year / Tuesday 2 April and 3 April
Instruction ends 4th year / Friday 26 April
Spring holidays 3rd year (Ob/Gyn, Peds, Psych, Neuro) / Saturday 27 April to 5 May
Exam period elective courses 1st and 2nd years / Monday 29 April to 3 May
Instruction ends required courses 1st and 2nd years / Friday 3 May
Examination period required courses 1st and 2nd years / Monday 6 May to 9 May
Commencement / Friday 10 May
National Boards (Part 1) 2nd year / Tuesday 11 June and 12 June
Instruction ends 3rd year / Friday 28 June

School of Nursing Calendar 1990/91

FALL SEMESTER 1990

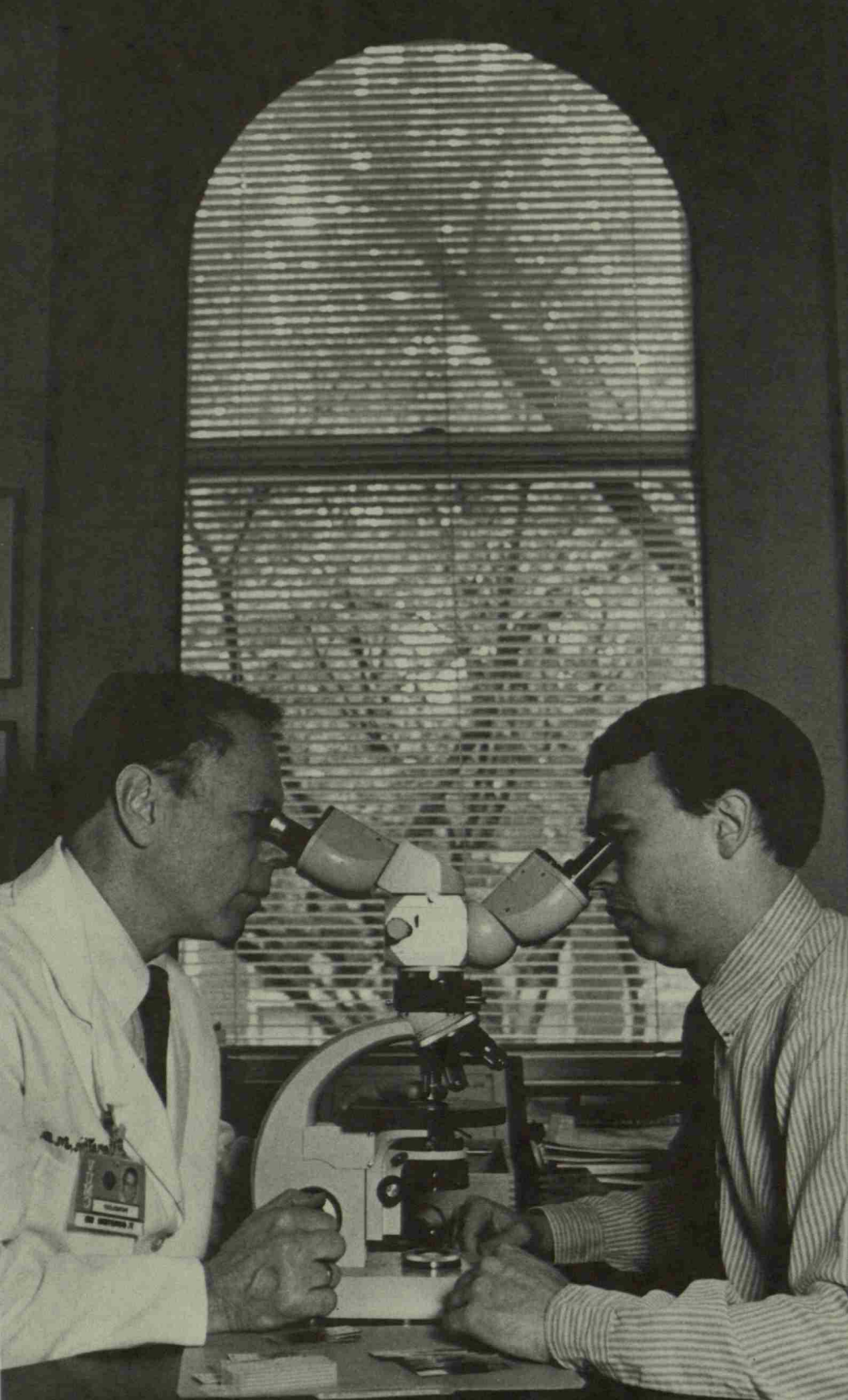
Orientation for nursing students (mandatory) / Wednesday 22 August and Friday 24 August
Registration / Thursday 23 August
Classes begin / Monday 27 August
First seven-week module ends / Friday 12 October
Reading period / Monday 15–Friday 19 October
Nursing School Reunion / Thursday 18–Saturday 20 October
Second seven-week module begins / Monday 22 October
Homecoming / Saturday 27 October
Thanksgiving holidays / Saturday 17–Sunday 25 November
Students turn in theses/Master's project for December graduation / Friday 7 December
Classes end / Friday 14 December
Reading days and examinations / Monday 17–Thursday 20 December
Holidays begin / Friday 21 December

SPRING SEMESTER 1991

Orientation for new students / Monday 7 January
Registration / Tuesday 8 January
Classes begin / Thursday 10 January
National NCLEX examination for Nursing State Board / Tuesday 5–Wednesday 6 February
First seven-week module ends / Friday 1 March
Spring holidays / Saturday 2–Sunday 10 March
Second seven-week module begins / Monday 11 March
Students turn in theses/Master's project for May graduation / Friday 19 April
Classes end / Wednesday 24 April
Reading days and examinations / Thursday 25 April–Friday 3 May
Commencement / Friday 10 May

SUMMER SEMESTER 1991

Registration / Thursday 25–Friday 26 April
Classes begin / Monday 6 May
Independence Day (no classes) / Thursday 4 July
National NCLEX / Tuesday 9–Wednesday 10 July
Students turn in theses/Master's project for August graduation / Friday 26 July
Classes end / Friday 9 August




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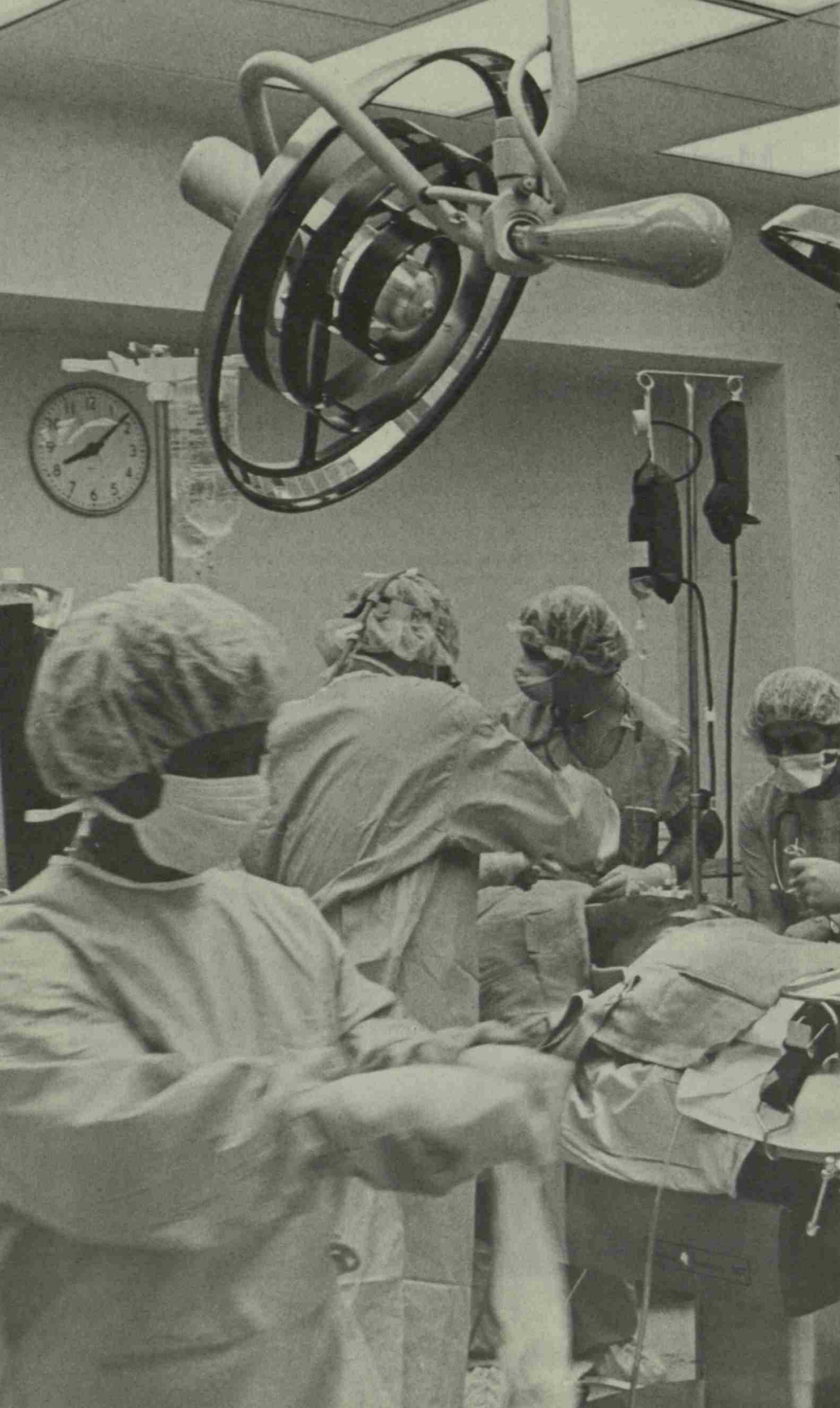
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Medical Center

**An Academic Health Care Center
for the Southeast 15**

Life at Vanderbilt 27



An Academic Health Care Center for the Southeast

 VANDERBILT 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 three main operating units—the School of Medicine, the School of Nursing, and the 661-bed Vanderbilt University Hospital, where patients receive exemplary care from physicians and nurses who are 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 among the School of Medicine, the School of Nursing, and the University Hospital, and facilitates joint research activities. As a result, the Medical Center can undertake significant, innovative programs that 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 Medical Center encounter a wider range of diseases than they would be likely to see in many years of private practice.

The Medical Center furnishes support for University programs in engineering and law—and makes possible the Ann Geddes Stahlman professorship in medical ethics as well as interdisciplinary programs in philosophy, religion, and the social sciences.

Through the education of physicians, nurses, 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 and by bridge to the Medical Research Building and the Veterans Administration Medical Center.

Medical Research Building

Laboratories and academic space for pharmacology, biochemistry, and molecular physiology and biophysics are housed in the Medical Research Building. The eight-story building, opened in 1989, also is home to the A. B. Hancock Jr. Memorial Laboratory for Cancer Research and the positron emission tomography (PET) scanner.

The building is linked to Light Hall on all levels and shares an underground level with The Vanderbilt Clinic. The Vanderbilt Clinic and the Veterans Administration Medical Center are connected to the Medical Research Building by a bridge.

Medical Center North

The 21-bed Newman Clinical Research Center, the Cooperative Care Center, and support functions are in Medical Center North. The complex also houses such specialized treatment and research units as the Burn Center, the Rehabilitation Center for patients with severe physical handicaps, and the Vanderbilt Institute for Treatment of Alcoholism (VITA).

Faculty and administrative offices and research space for Medical School departments are in 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.

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

Zerfoss Building. 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.

Vanderbilt Child and Adolescent Psychiatric Hospital

Opened in 1985 as a joint venture of Vanderbilt and the Hospital Corporation of America, this hospital provides care for children and adolescents with general psychiatric problems, chemical dependency, and psychosomatic and neuropsychiatric problems. The hospital is a regional referral center for middle Tennessee and serves as a teaching and research facility for medical students and resident physicians in psychiatry.

Medical Center South

The Medical Center South houses the department of neurology, the Jerry Lewis Neuromuscular Disease Research Center, and the School of Medicine Alumni and Development Office.

The Vanderbilt Clinic

The Vanderbilt Clinic, with 535,000 square feet of space on five levels, houses a number of medical specialty practice areas, the clinical laboratories, a center for comprehensive cancer treatment, a day surgery center, a rehabilitation center, and the Children's Hospital Outpatient Services. The clinic was opened in February 1988.

Stallworth Rehabilitation Center. The Stallworth Rehabilitation Center and Institute for the Crippled, on the first floor of the clinic, combines physical therapy, occupational therapy, and speech therapy to provide comprehensive, multidisciplinary rehabilitation care at one location.

Mary Ragland Godchaux Hall

Contains classrooms, offices of the School of Nursing faculty, and the research and media centers described below.

Center for Nursing Research. Established in 1987 jointly by the School of Nursing, Vanderbilt Hospital, and Veteran's Administration Hospital, the Center for Nursing Research will be used to develop and test clinical devices and instruments; conduct research in patient care, nursing management, and related issues; and set up models of health care problems, delivery systems, fiscal analysis, and staffing ratios. The center is on the third floor of Godchaux Hall.

Helene Fuld Instructional Media Center. Established in 1967 by the Helene Fuld Health Trust and housed in Godchaux Hall, the center provides multimedia learning materials, including computer terminals and microcomputers, either in a carrel area or in classrooms. More than 1,000 programs are available for instructional purposes. In addition, the School of Nursing receives new programs via the Helene Fuld television network that serves all the schools in the Helene Fuld Health Trust system.

Kim Dayani Human Performance Center

The Dayani Center provides facilities for health promotion, fitness testing and evaluation, cardiac rehabilitation, employee wellness, and fitness and nutrition research.

The center, named in honor of Dr. Kim Dayani (M.D. '65), offers membership primarily to Vanderbilt faculty and staff members, but a limited number of memberships are available to the public.

Langford Auditorium

Located in the Medical Center area, this 1,200-seat facility is for general University use.

Bill Wilkerson Hearing and Speech Center

A community-operated diagnostic and treatment center for audiological 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 on a non-credit and elective credit basis. Certain departments award elective credit.

Medical Arts Building

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

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 and Saint Thomas Hospital are closely affiliated with the educational programs of the Medical and Nursing schools. The Medical Center also utilizes the facilities of Baptist Hospital, the Luton Community Mental Health Center, the Metro Nashville-Davidson County Health Department, and Park View, Southern Hills, and West Side hospitals.

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. 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 and is a major information resource for the health professionals of this region.

The library, which is also the official archive of the Medical Center, contains over 155,000 volumes. About two-thirds of these are bound periodicals, and about 2,000 periodicals and serial publications are currently received. The History of Medicine Room houses a collection of materials illustrating the roots and development of medicine and nursing, especially in the United States.

In addition to the resources of the Medical Center Library, readers have access to all other resources of the Jean and Alexander Heard Library, numbering over 1.8 million volumes. Included are the Central, Divinity, Education, Law, Management, Music, and Science libraries. Access to materials in the Medical Center Library is provided through the Heard

Library's integrated, automated system, Acorn. Public catalog terminals are located in all library divisions and units, and circulation of books is handled by this system, as well.

The Medical Center 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 and in information retrieval; literature searches; document delivery; fax service; and the usual circulation, reserve book circulation, and copying services. On-line access to many computer-based information retrieval systems is also offered, both through the mediation of a librarian and by searching on your own. MEDLINE is available on CD-ROM and in a locally mounted system accessible through Acorn terminals. The Informatics Lab, where instruction and hands-on experience in computerized information management is available, was recently established. The library participates in various cooperative ventures and projects and is a resource library for the nationwide Regional Medical Library Program.

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Canby Robinson Society

In 1978 Vanderbilt established the Canby Robinson Society in honor of George Canby Robinson, M.D., the Medical School's first dean. It was through Dr. Robinson's leadership that the teaching hospital and the research laboratories were placed under one roof, thrusting Vanderbilt to the forefront of medical education. His innovation regarding the diversity of the Medical School's curriculum, with emphasis on biomedical research and improved health care, is a legacy that continues today.

The eight-hundred-plus members, including an active board, provide impetus to the Medical Center's philanthropic programs. Through the leadership of this group, private support to the Medical Center has in-

creased over the past several years, with the society contributing over six million dollars last year.

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 SHARON EMCH, Toledo
 FLORENCE ESKIND, Nashville
 IRWIN B. ESKIND, Nashville
 ANNETTE S. ESKIND, Nashville
 JEFFREY B. ESKIND, Nashville
 DONNA ESKIND, Nashville
 STEVEN J. ESKIND, Nashville
 LAURIE ESKIND, Nashville
 THOMAS NICHOLAS EVANS, Denver, Colorado
 JESSICA JO EVANS, Denver
 E. WILLIAM EWERS, Nashville
 MARGE EWERS, Nashville
 ROBERT B. FABER, Nashville
 RUTH FABER, Nashville
 E. S. C. FORD, Mercer Island, Washington
 AMELIA A. FORD, Mercer Island
 THOMAS F. FRIST, JR., Nashville
 PATRICIA FRIST, Nashville
 THOMAS F. FRIST, SR., Nashville
 DOROTHY C. FRIST, Nashville
 ALAN H. FRUIN, Omaha, Nebraska

- CAROLYN FRUIN, Omaha
 H. EDWARD GARRETT, JR., Memphis, Tennessee
 ROSE GARRETT, Memphis
 CARL N. GESSLER, Donelson, Tennessee
 MARGARET GESSLER, Donelson
 KATHERINE S. GILLIS, Hopkinsville, Kentucky
 ANTONIO M. GRANDA, Nashville
 ELIZABETH GRANDA, Nashville
 MILDRED GREEN, Nashville
 LAURENCE A. GROSSMAN, Nashville
 DOROTHY GROSSMAN, Nashville
 R. GLENN HAMMONDS, Nashville
 VIRGINIA HAMMONDS, Nashville
 WADDELL HANCOCK, Paris, Kentucky
 JOHN L. HANIGAN, North Palm Beach, Florida
 M. MAGDALEN HARRER, Crestwood, Kentucky
 A. CLYDE HEFLIN, JR., Nashville
 SANDI HEFLIN, Nashville
 KATHRYN HENRY, Nashville
 RAY W. HESTER, Nashville
 EVELYN HESTER, Nashville
 HENRY W. HOOKER, Nashville
 ALICE I. HOOKER, Nashville
 G. BAKER HUBBARD, Jackson, Tennessee
 ELIZABETH HUBBARD, Jackson
 WILLIAM L. HUNT III, Franklin, Tennessee
 LINDA HUNT, Franklin
 E. BRONSON INGRAM, Nashville
 MARTHA INGRAM, Nashville
 KATHRYNE B. INGRAM, Franklin, Tennessee
 J. KENNETH JACOBS, Nashville
 ELLEN JACOBS, Nashville
 THOMAS P. JERNIGAN, New York, New York
 H. KEITH JOHNSON, Nashville
 NANCY JOHNSON, Nashville
 MARTIN KATAHN, Nashville
 ENID KATAHN, Nashville
 ERNEST G. KELLY, Memphis, Tennessee
 MIRIAM KELLY, Memphis
 THOMAS P. KENNEDY, JR., Nashville
 ELIZABETH KENNEDY, Nashville
 VIRGINIA KIRK, Hermitage, Tennessee
 GEORGE C. LAMB, JR., Williamsburg, Virginia
 ELIZABETH B. LAMB, Williamsburg
 ELIZABETH LANGFORD, Hermitage, Tennessee
 JOHN T. LATHAM, JR, Greenville, South Carolina
 GINA LATHAM, Greenville
 ADAM LIFF, Nashville
 SUZY LIFF, Nashville
 NOAH LIFF, Nashville
 JUDY LIFF, Nashville
 GEORGEANNA W. LIPE, La Jolla, California
 CHARLES T. LOWE, Lebanon, Tennessee
 RUTH LOWE, Lebanon
 WALLACE F. MANTEY, Shalimar, Florida
 BETTY HOVDA MANTEY, Shalimar
 ALYNE MASSEY, Nashville
 RALPH W. MASSIE, Nashville
 LIBBY MASSIE, Nashville
 G. PATRICK MAXWELL, Nashville
 CATHY MAXWELL, Nashville
 DOROTHY MAY, Nashville
 PATRICIA WARREN McGAVOCK, Old Hickory, Tennessee
 CHARLES M. McGILL, Gig Harbor, Washington
 EDITH H. McGILL, Gig Harbor
 LAUDIE E. McHENRY, Melbourne, Florida
 EDITH McHENRY, Melbourne
 MARY L. McILHANY, Baltimore, Maryland
 ALBERT M. McPEAK, Larchmont, New York
 VIOLET M. McPEAK, Rusk, Texas
 GRACE McVEIGH, St. Simons Island, Georgia
 JAMES R. McWANE, Birmingham, Alabama
 ADA McWANE, Birmingham
 WILLIAM F. MEACHAM, Nashville
 ALICE MEACHAM, Nashville
 HUGH JACKSON MORGAN, JR., Birmingham, Alabama
 ANN MORGAN, Birmingham
 WALTER M. MORGAN, Nashville
 DUDLEY MORGAN, Nashville
 FAY B. MURPHEY, JR., Chattanooga, Tennessee
 BETTY MURPHEY, Chattanooga
 WILLIAM T. MYERS, Fort Worth, Texas
 GLORIA A. MYERS, Fort Worth
 EDWARD G. NELSON, Nashville
 CAROLE NELSON, Nashville
 JOHN S. ODESS, Birmingham, Alabama
 CAROL S. ODESS, Birmingham
 DOUGLAS G. ODOM, JR., Madison, Tennessee
 ROBBIE ODOM, Madison
 RICHARD R. OLDHAM, Nashville
 SUSAN OLDHAM, Nashville
 EVELYN OVERALL, Nashville
 RONALD E. OVERFIELD, Nashville
 KAY OVERFIELD, Nashville
 GLADYS S. OWEN, Cookeville, Tennessee
 LULU HAMPTON OWEN, Nashville

- ALICE CHENOWETH PATE, Alexandria,
Virginia
- W. FAXON PAYNE, Nashville
- FRANCES PAYNE, Nashville
- EDDIE PEN, Nashville
- GRACE PEN, Nashville
- JAMES W. PERKINS, Nashville
- BETTY PERKINS, Nashville
- NANCY K. PERKINS, Nashville
- DAVID YOUNG PROCTOR, Nashville
- ELIZABETH CRAIG PROCTOR, Nashville
- THOMAS R. PURYEAR, Lebanon,
Tennessee
- LOUISE PURYEAR, Lebanon
- JAMES A. RAINEY, Nashville
- ALICE RAINEY, Nashville
- DOUGLAS H. RIDDELL, Nashville
- JEANNE RIDDELL, Nashville
- LOUIS ROSENFELD, Nashville
- HELEN W. ROSENFELD, Nashville
- KATHRYN ROSS, Louisville, Kentucky
- GEORGE E. ROULHAC, Sea Island,
Georgia
- FREDA ROULHAC, Sea Island
- JOHN L. SAWYERS, Nashville
- JULIA EDWARDS SAWYERS, Nashville
- ALLEN L. SCHLAMP, Jackson, Tennessee
- TOMMIE SCHLAMP, Jackson
- HERBERT J. SCHULMAN, Nashville
- JEAN SCHULMAN, Nashville
- H. WILLIAM SCOTT, Nashville
- MARY SCOTT, Nashville
- ALVIS JOE SCULL, JR., Santa Barbara,
California
- WILLIAM J. SHASTEEN, Huntsville,
Alabama
- KATHRYN SHASTEEN, Huntsville
- J. GREG SIKES, Nashville
- DENISE S. SIKES, Nashville
- IRBY C. SIMPKINS, Nashville
- PEACHES SIMPKINS, Nashville
- RICHARD SMALL, Nashville
- RHONDA SMALL, Nashville
- J. HAL SMITH, Goodlettsville, Tennessee
- VELMA SMITH, Goodlettsville
- LESLIE M. SMITH, El Paso, Texas
- EVELYN SMITH, El Paso
- MARGARET SMITH, Nashville
- MALINA STANTON, Nashville
- J. GARLAND STROUP, Sacramento,
California
- BETTY STROUP, Sacramento
- ELIZABETH P. TAYLOR, Menlo Park,
California
- DAVID L. THARPE, Leeds, Alabama
- JUDITH THOMPSON, Birmingham,
Alabama
- JOHN C. THORNTON, JR., Brownsville,
Tennessee
- BETTYE THORNTON, Brownsville
- HILLIARD TRAVIS, Nashville
- NANCY TRAVIS, Nashville
- CAL TURNER, JR., Nashville
- MARGARET TURNER, Nashville
- JACK B. TURNER, Clarksville, Tennessee
- MARGIE TURNER, Clarksville
- HENRY A. UNGER, Cary, North Carolina
- NANCY ELIZABETH UNGER, Cary
- F. KARL VAN DEVENDER, Nashville
- KATHY VAN DEVENDER, Nashville
- JOHN SCOTT WADLINGTON, Nashville
- VAN WADLINGTON, Nashville
- JOHN B. WALLACE, Gallatin, Tennessee
- JOHN J. WARNER, Nashville
- JUDITH WARNER, Nashville
- JOHN S. WARNER, Nashville
- MARGARET S. WARNER, Nashville
- WILLIAM K. WARREN, Tulsa, Oklahoma
- NATALIE WARREN, Tulsa
- GEORGE WATERHOUSE, Nashville
- GLORIA WATERHOUSE, Nashville
- W. BEDFORD WATERS, Maywood, Illinois
- WILLIAM R. WELBORN, JR., Sheffield,
Alabama
- LINDA WELBORN, Sheffield
- LEAH ROSE WERTHAN, Nashville
- RALPH E. WESLEY, Nashville
- JULIA WESLEY, Nashville
- ELLEN WILLS, Nashville
- DAVID K. WILSON, Nashville
- PAULA BELL WILSON, Nashville
- CHARLES E. WORK, Cincinnati, Ohio
- MILDRED WORK, Cincinnati
- THOMAS L. YOUNT, JR., Nashville
- JANE YOUNT, Nashville
- RAYMOND ZIMMERMAN, Nashville
- ARLENE I. ZIMMERMAN, Nashville
- EDMOND P. ZIMSKI, JR., Boca Raton,
Florida

The City of Nashville

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

A mixture of modern buildings and restored historic structures define the downtown skyline and give graphic evidence of the city's business vitality. Nashville has long been a center of banking, finance, publishing, and insurance, and 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 national corporations, including Hospital Corporation of America, Genesco, and Aladdin Industries. Many major manufacturing installations—among them DuPont, Ford, Nissan, and the new General Motors Saturn facility—are located in the Nashville area.

Nashville—Music City, U.S.A.—is the home of country music, but the music business in the city and the surrounding area is not limited to the "Nashville sound." Nashville has become a regional recording and production center for music, film, and video. Some of the most sophisticated soundstage and television studio facilities in the United States are here, and many record companies have offices and recording studios in Nashville.

More than a dozen colleges and universities attract some thirty thousand students from throughout the United States and around the world and include two major medical centers—Vanderbilt and Meharry Medical College. Studies in the health sciences are enriched by Nashville's status as a regional medical center for the Southeastern states.

Cultural activities in Nashville have expanded greatly during the last few years. The Tennessee Performing Arts Center features music, dance, theatre—including touring companies of Broadway shows and a local repertory company—and other performing arts. The Nashville Symphony holds concerts at the War Memorial auditorium, the bandshell in Centennial Park, and other locations, and Nashville has numerous clubs where local and nationally-known artists regularly perform. Several local theatre groups offer shows ranging from comedy revues to dinner theatre and Shakespeare-in-the-park. 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 home-cooked Southern meals to gourmet dining. Entertainment choices are likewise wide-ranging, from hole-in-the-wall bluegrass joints to swank, showcase supper clubs.

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 challenges of whitewater rafting or kayaking. Old

Hickory and Percy Priest lakes, each about thirty minutes from Vanderbilt, are popular with skiers, sailors, and anglers.

The Nashville Sounds play baseball April through September, and the Nashville Knights, the area's newest sports attraction, is making its mark in the East Coast Hockey League. 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.

As state capital, Nashville is also a center for state and federal government. The city itself has 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 one half miles from Nashville's downtown business district lies Vanderbilt University's 330-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 has been an integral part of the University from its very beginning. The School of Nursing was founded in 1909.

Today Vanderbilt is a private, selective university with a strong faculty of nearly 1,400 full-time members and a diverse student body of about 8,600 from "all sections of our common country." Academic work is still governed by the honor system that was inaugurated at 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.

Blair School of Music, offering the Bachelor of Music.

The Divinity School, offering the Master of Divinity, the Master of Theological Studies, 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 Master of Science in Nursing.

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


Peabody College offering the Bachelor of Science, the Master of Education, the Master of Public Policy, the Specialist in Education, and the Doctor of Education.

No honorary degrees are conferred.

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



Life at Vanderbilt

 VANDERBILT provides a full complement of auxiliary services to meet the personal needs of students, to make life on the campus comfortable and enjoyable, and to provide the proper setting for academic endeavor.

Identification Cards

Identification cards are multifunctional, serving as each student's library card, building access card, and, when combined with a debit account, a dining card that also can be used to make cash-free purchases throughout the campus.

Identification cards are issued at the office of the University Registrar, 242 Alexander Hall, from 9 a.m. to 3 p.m., Monday through Friday. All students' cards must be validated for the current semester at registration.

Housing Facilities

The Office of Residential and Judicial Affairs provides suitable and appropriate housing for as many graduate and professional students as possible. Applications and inquiries concerning housing should be addressed to the Office of Residential and Judicial Affairs, Box 1677 Station B, Nashville, Tennessee 37235, as soon as notice of admission is received. A \$200 deposit is required at the time of application.

Entering students who apply by 1 May are given priority for housing space. After 1 May, assignment is made on the basis of the date of application.

Apartments are leased for the entire academic year. Students who are assigned space on the campus are therefore committed for one year and should understand that only withdrawal from the University will cause the lease to be terminated.

Residential occupancy is subject to the terms and conditions of a lease executed by the occupants. Only full-time students at Vanderbilt are eligible for campus apartments. Apartments must be vacated within twenty-four hours if the occupants cease to be students.

University housing for graduate and professional students is available in the following 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. It is primarily for married students.

The Married Students Apartments, located at the eastern edge of campus on Eighteenth Avenue South are town-house apartments with living room and kitchen downstairs and two bedrooms and bath upstairs. The apartments are designed for families.

The Garrison Apartment complex on Eighteenth Avenue South has air-conditioned efficiency and one-bedroom units. Single as well as married students are assigned here.

Off-Campus Housing

The Office of Residential and Judicial Affairs maintains a listing of available off-campus accommodations in the Nashville area. The majority of rental property is close to the campus. Cost, furnishings, and conditions vary greatly. For best choices, students seeking off-campus housing should visit the office by early July for suggestions and guidance.

Change of Address

Students who change either their local or mailing address are expected to notify school and University registrars immediately. Candidates for degrees who are not in residence should keep the school informed of current mailing addresses.

Eating on Campus

Several dining facilities on campus offer a variety of types of service and food. The Divinity Refectory, the Branscomb Canopy, the Hill Center, the Rand and Commodore Dining Rooms (Rand Hall), and McTyeire Dining Hall all offer complete menus. At least two of these facilities are open seven days a week, from 7 a.m. till 7 p.m.

The Overcup Oak in Sarratt Student Center has an informal, pub-like atmosphere. Specialty foods are available for lunch and dinner. Another facility is the Courtyard Cafe in The Vanderbilt Clinic in the Medical Center.

Students may use their identification cards, with a debit account, to purchase food, *à la carte*, at any of the above listed locations. An account may be set up at 125 Sarratt Center Monday through Friday from 9 a.m. to 3 p.m.

Psychological and Counseling Center

The Psychological and Counseling Center is a broad-based service center available to students, faculty, staff, and their immediate families. Services include the following:

- Individual and group counseling for personal problems and issues

- Group support programs for learning skills such as relaxation; assertiveness; marital communication; reading and study techniques; and weight, stress, and time management
- Administration of national testing programs
- Career choice/change and college major counseling
- Outreach and consultation with faculty and staff
- Campus speakers and educational programs

Those eligible for services may make appointments by visiting the Counseling Center at 300 Oxford House, Twenty-first Avenue South and Dixie Place, or by calling 322-2571.

Student Health Service

The Vanderbilt Student Health Service is a student-oriented facility that provides medical care for chronic and acute conditions.

The following general health services are provided without charge:

- Visits to staff physicians and nurse practitioners
- Personal counseling by psychiatrists and psychologists
- Routine treatments, dressings, and suturings
- Confidential testing to detect common communicable diseases
- Educational information and speakers for campus groups

Students are billed for any services provided by the Medical Center; many services, however, may be covered by the student insurance policy.

The Zerfoss Student Health Center is open from 8 a.m. to 4:30 p.m., Monday through Friday, and 8:30 a.m. until noon on Saturday, except during scheduled breaks. Students are asked to call for appointments when possible, but "walk-ins" are helped on a first-come first-served basis. When the Health Center is closed, students may receive medical care at the emergency room of Vanderbilt University Hospital. They will be charged for emergency room services, but a part of this cost may be covered under the student insurance plan.

A twenty-four-hour consultation service is also available (except during summer and scheduled academic breaks) by calling 322-2427.

Hospitalization Insurance Plan

All students registered at Vanderbilt for 4 or more credit hours or for a thesis or dissertation research course are required to have adequate hospitalization insurance coverage, and a health insurance plan is offered through the University. This plan is designed to provide hospital, surgical, and major medical benefits. A brochure explaining the limits, exclusions, and benefits of insurance coverage is available to students at registration, in the Office of Student Accounts, or at the Student Health Center.

The annual premium is in addition to tuition. Coverage extends from 20 August until 19 August of the following year, whether a student remains in school or is away from the University.

A student who does not wish to subscribe to the insurance plan offered through the University must notify the Office of Student Accounts of adequate coverage under another policy. New students must complete and return the acceptance/waiver card that is available at registration or in the Office of Student Accounts or the Medical School Office of Financial Aid.

Notice of cancellation of insurance coverage must be received and verified in the Office of Student Accounts at or by registration each academic year.

Medical Students. A medical student who does not wish to subscribe to the University insurance plan must notify the Medical School Office of Financial Aid of adequate coverage under another policy. Students will automatically be covered under the University policy unless a waiver card is received by the Medical School Office of Financial Aid before 15 October. Retuning students must submit a waiver card each year if they wish to waive student health insurance.

Family Coverage. An additional premium is charged for family hospital coverage. Married students who wish to provide coverage for their families may secure an application form from the Office of Student Accounts (Medical School Office of Financial Aid for medical students) at the time of registration.

International Student Coverage. International students and their dependents residing in the United States are required to purchase foreign-student health insurance. No exceptions are made unless, in the judgment of the University, adequate coverage is provided from some other source. This insurance is required for part-time as well as full-time students. Information and application forms are provided through the Office of International Services.

Services for Students with Disabilities

Vanderbilt has a strong commitment to persons with disabilities and provides services from the first day of their academic careers. Among the University's many services are: readers, brailled or taped books, and special print-enlarging equipment for visually impaired persons; assistance in locating interpreters for hearing impaired persons; and modifications of class locations and assignments for persons with mobility impairments.

The Opportunity Development Center serves as a resource regarding complaints of unlawful discrimination as defined by state or federal equal opportunity laws.

The University provides access to academic programs, parking, and recreational facilities. Specific concerns pertaining to services for persons with disabilities should be directed to the following faculty monitors or to

the Opportunity Development Center, Anita Jenious Pulley, Special Services Coordinator, Box 1809 Station B, Nashville, Tennessee 37235.

School of Medicine. Associate Dean Gerald Gotterer, 203 Light Hall, Nashville, Tennessee 37232-0685.

School of Nursing. Patricia L. Peerman, Director of Academic Administrative Affairs, 116 Godchaux Hall, Nashville, Tennessee 37240.

Child Care Center

Vanderbilt Child Care Center operates as a service to University faculty and staff members and students. The program serves children six weeks old to kindergarten. Tuition is based on the child's age and family income. The center is open from 6:30 a.m. to 5:30 p.m. Daily activities always include outdoor play, music, art, and listening experiences. The center is accredited by the National Academy of Early Childhood Programs. Additional information is available from the Vanderbilt Child Care Center, Box 83 Peabody Station, Nashville, Tennessee 37203.

Police and Security

Of primary concern to the Department of Police and Security is the protection of students, faculty and staff members, and the assets of the University. Security services are provided in response to this concern. Information on security measures and a summary of crime statistics for the Vanderbilt campus is available from the Department of Police and Security, Alexander Hall, 2505 West End Avenue, Nashville, Tennessee 37203.

Shuttle Bus Service

The University Shuttle Bus Service operates from 7 a.m. to 2 a.m., Monday through Friday, and 6 p.m. to 2 a.m. on weekends. The bus is accessible to persons with disabilities. Schedule and route information may be obtained at the Department of Police and Security. The shuttle bus service operates on a revised schedule during academic break periods but does not operate on holidays.

Escort Service

A vehicular or walking escort service is available for persons who need an escort after dark for personal safety reasons or for those who need transportation because of physical disability. The telephone number for the service is 421-8888.

Blue Light Emergency Telephones

These highly visible phones are strategically placed around the campus. Simply lifting the receiver identifies the location and sends an immediate message to the Department of Police and Security.

Lost and Found

Articles found on campus are turned in to the Department of Police and Security in Alexander Hall, 2505 West End Avenue. Students are advised to label all personal belongings with proper identification.

Vehicles and Parking on Campus

Parking space on campus is severely limited. Cars, motor bikes, and bicycles owned by students must be registered with the Department of Police and Security. Students will be assigned to specific areas of the campus for parking purposes, and some reserved parking spaces are available in garages and surface lots.

Bishop Joseph Johnson Black Cultural Center

The building that became the center of activities for African-American students at Vanderbilt in the seventies was renovated in 1984 and named for Bishop Joseph Johnson (B.D. '54, Ph.D. '58), Vanderbilt's first African-American student. The center remains the focal point of social and cultural activities for African-American students; it also sponsors lectures, symposia, and musical activities and provides academic resources on African and African-American culture. The center is open weekdays from 8:30 a.m. to midnight.

Margaret Cuninggim Women's Center

The Women's Center was established in 1978 to provide support for women at Vanderbilt and resources about women, gender, and feminism for the University community. In 1987 the center was named in memory of Margaret Cuninggim, dean of women and later dean of student services at Vanderbilt.

Programs for students, staff, and faculty are scheduled regularly during the fall and spring semesters and are publicized in the monthly newsletter *Women's VU*, which is distributed without charge to campus addresses on request.

The center houses a small library with an excellent collection of unbound materials such as clippings and reprints as well as journals, magazines, and tapes. Books circulate for two weeks. Copy facilities are

available. The center is located in the Franklin Building, West Side Row, and is open weekdays from 8:30 a.m. to 5 p.m.

Sports and Recreation

Graduate and professional students are encouraged to participate in the many physical activity classes, intramurals, and sport clubs offered by the University. All students pay a mandatory recreation fee that supports facilities, fields, and programs (see the chapter on Financial Information). Spouses must also pay a fee to use the facilities.

Physical activity classes offered include such unusual activities as taekwon do and scuba diving along with the old standbys: tennis, swimming, volleyball, and racquetball. These classes are offered on an elective, no-credit basis. Nineteen sport clubs provide opportunity for participation in such favorites as sailing, fencing, rugby, and lacrosse.

The University recreation facilities include gymnasiums, indoor and outdoor tracks, an indoor tennis center plus many outdoor hard courts, and four softball diamonds. The three playing fields are irrigated and maintained to assure prime field conditions. Excellent lighting is available for night use.

A new student recreation center, completed in January 1990, houses a swimming pool; three courts for basketball, volleyball, and badminton; six racquetball and two squash courts; a weight and Nautilus room; a wood-floor activity room; a rock-climbing wall; an indoor track; a mat room; locker rooms; and a dining area. Lighted outside basketball and sand volleyball courts complement the center.

Religious Life

The Office of the University Chaplain and Affiliated Ministries exists to provide occasions for religious reflection and avenues for service, worship, and action. There are many opportunities to clarify one's values, examine personal faith, and develop a sense of social responsibility. Major service projects include the Alternative Spring Break, the Vanderbilt Prison Project, the Oxfam Fast, the Second Harvest Food Bank, the Student Y, and the Racial Environment Project.

The Holocaust and Martin Luther King Jr. lecture series provide two intense weeks of lectures investigating these climactic historical events and times.

Baptist, Church of Christ, Episcopal, Jewish, Presbyterian, Reformed University Fellowship, Roman Catholic, and United Methodist chaplains work with individuals and student groups. Worship services for Catholics and Episcopalians are held in chapels on campus. The University also makes provision for worship by other Christian groups and for Muslim students.

Sarratt Student Center

The Madison Sarratt Student Center provides a wide variety of programs and activities for the campus community. The center is equipped with a cinema where classical, foreign, and first-run films are shown nightly; an art gallery; art studios and a darkroom for individual work and classes; a game room; work space for student organizations; comfortable reading rooms and lounges; and large and small meeting rooms. The center's seven student-run committees plan concerts and events that take place throughout the campus, and the Sarratt main desk serves as a Ticketmaster™ outlet, handling ticket sales for most of the University's and Nashville's cultural events.

Student Records (Buckley Amendment)

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 University students. Students who are or have been in attendance at Vanderbilt University can obtain copies of these policies from the University Registrar, 242 Alexander Hall. The final federal regulations pursuant to the Buckley Amendment are also 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 educational 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 ten days of completion of the student's first registration of the academic year. The request to withhold directory information will remain in effect as long as the student continues to be enrolled, or until the student files a written request with the University Registrar to discontinue the withholding.

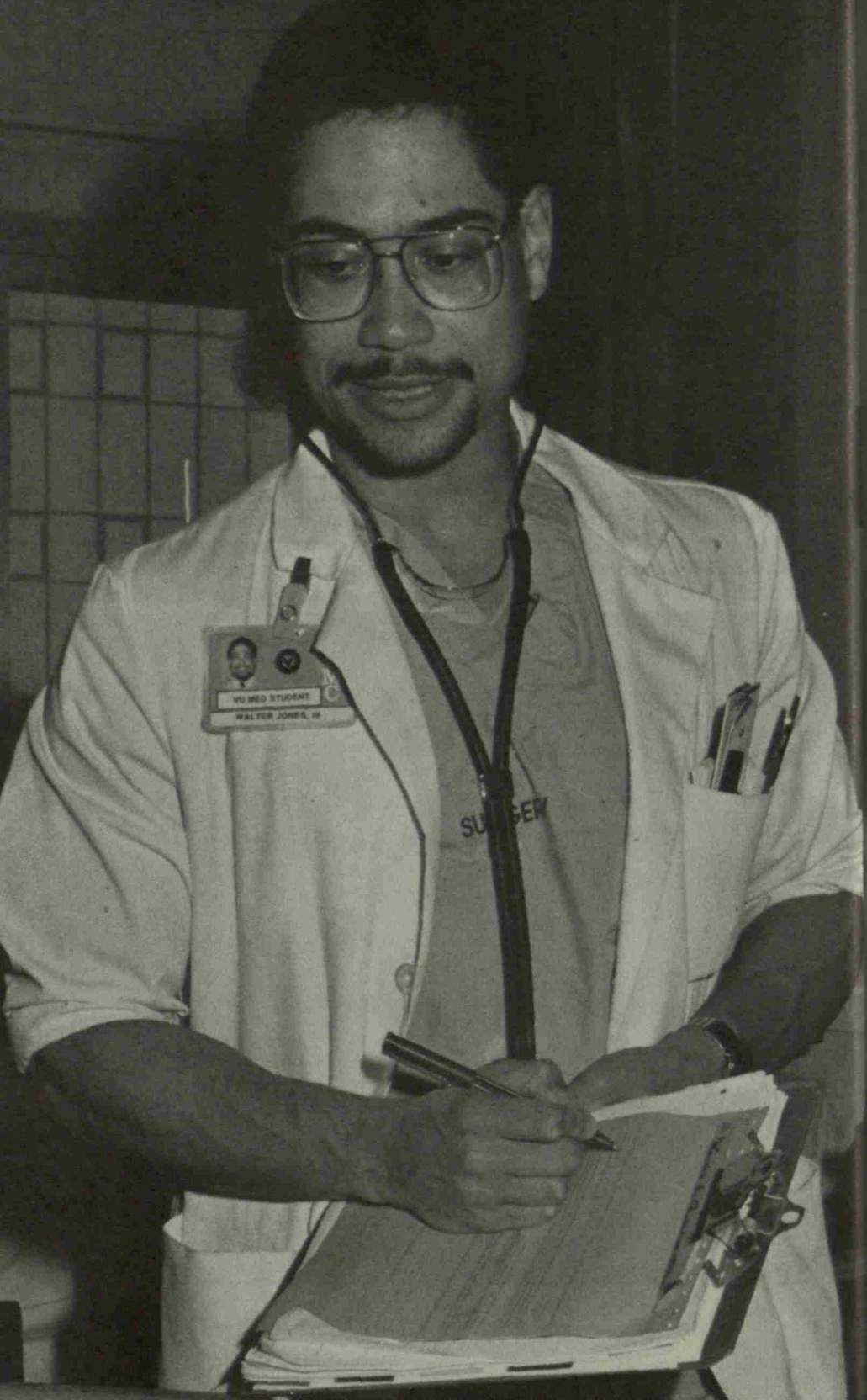
If a student believes the University has failed to comply with the Buckley Amendment and the student does not wish to utilize the University's grievance procedure to resolve a grievance, or is dissatisfied with the outcome of such procedure, he or she can file a written complaint with the Family Educational Rights and Privacy Act Office, Department of Education, 4511 Switzer Building, Washington, DC 20202.

Questions about the application of the provisions of the Family Educational Rights and Privacy Act should be directed to the University Registrar or to the Office of General Counsel.

Vanderbilt Telephone Directory Listings

Individual listings in the student section of the *Vanderbilt Directory* will consist of the student's full name, school, academic classification, local phone number, local address, box number, and permanent address. Students who wish their names to be excluded from the directory must notify the University Registrar, 242 Alexander Hall, in writing, within ten days of completing their first registration of the academic year.





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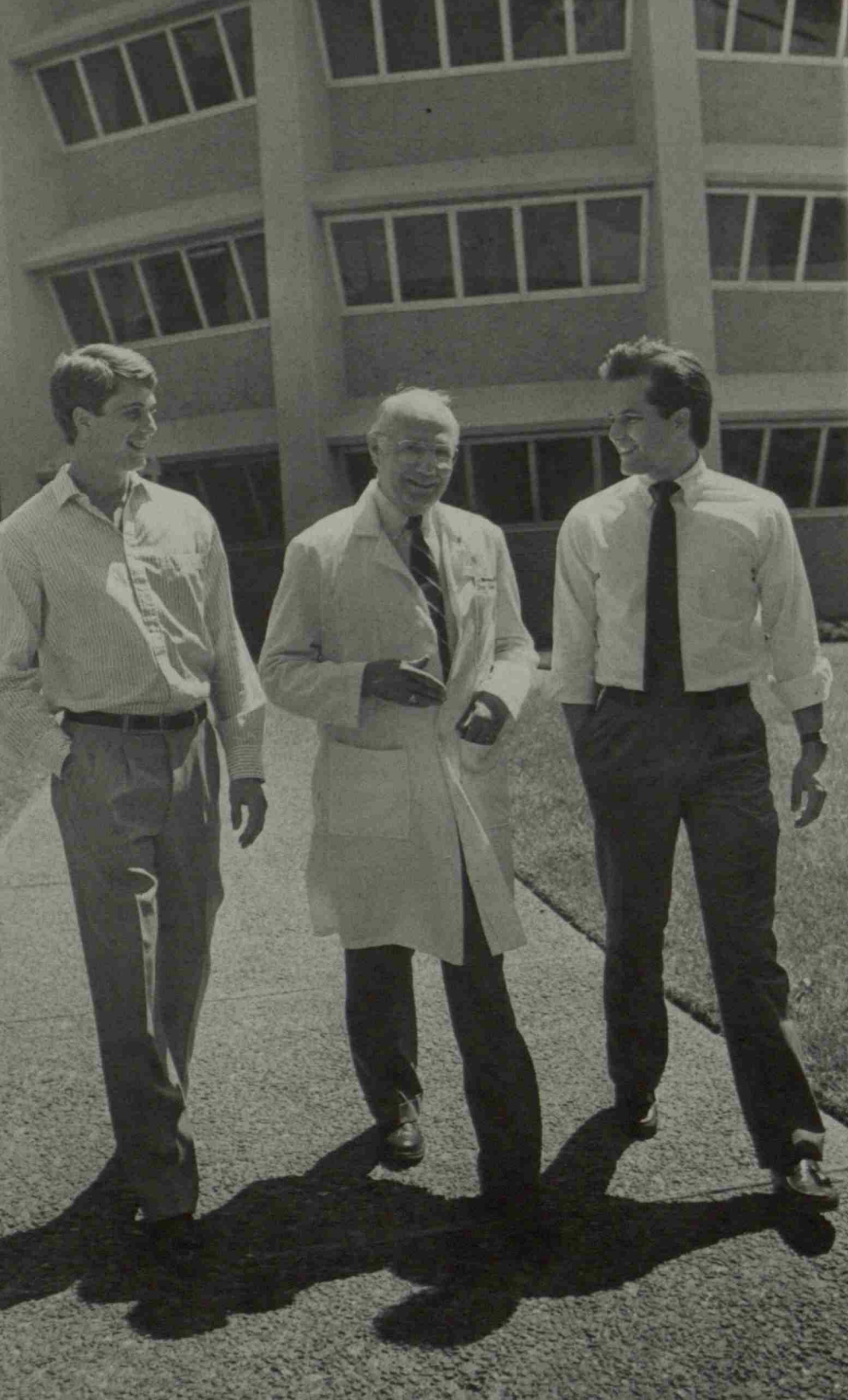
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School of Medicine



JOHN E. CHAPMAN, M.D., Dean
GERALD S. GOTTERER, M.D., Ph.D., Associate Dean
DEBORAH C. GERMAN, M.D., Associate Dean for Students
JOHN H. HASH, Ph.D., Associate Dean for Biomedical Sciences
FREDERICK KIRCHNER, JR., M.D., Associate Dean; Director of Graduate Medical Education
ALEXANDER S. TOWNES, M.D., Assistant Dean for Veterans Administration Affairs
VICKY CAGLE, Director, Office of Financial Aid
WINFRED L. COX, M.B.A., C.P.A., Director of Financial and Administrative Services
ALLEN H. HEIM, Ph.D., Director of Sponsored Research Programs
JAMES H. JUDD, B.S., Director of Educational Support Services
WILLIAM B. LAWSON, Ph.D., M.D., Director, Office of Minority Student Affairs
JOHN O. LOSTETTER, Ph.D., Director of Program Support Services
STEPHEN B. MOORE, M.B.A., Director of Facilities and Operations
LLOYD H. RAMSEY, M.D., Assistant to the Dean; Director of Continuing Medical Education
JANELLE CAREY OWENS, Executive Assistant, Office of the Dean
PATRICIA SANDERS, Administrative Assistant

Executive Faculty

John E. Chapman, Chairman. Lonnie S. Burnett, Ian M. Burr, Michael H. Ebert, James H. Elliott, Gerald M. Fenichel, Fred Gorstein, Daryl K. Granner, Joel G. Hardman, Jacek Hawiger, A. Everette James, Jr., W. Scott McDougal, Harold L. Moses, John A. Oates, John L. Sawyers, William Schaffner, Bradley E. Smith, Dan M. Spengler, James V. Staros. Regular Non-Voting Members: Winfred L. Cox, Gerald S. Gotterer, John H. Hash, Roscoe R. Robinson, Norman B. Urmey.

EXECUTIVE COMMITTEE OF THE EXECUTIVE FACULTY. John E. Chapman, Chairman. Lonnie S. Burnett, Ian M. Burr, Fred Gorstein, Jacek Hawiger, Harold L. Moses, Dan M. Spengler. Non-Voting Member: Gerald S. Gotterer.

Standing Committees

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

Academic Programs

The Academic Programs Committee, appointed by the Dean, is composed of faculty and students. It is charged with monitoring the content and implementation of the Medical School curriculum and recommending to the Dean and the Executive Faculty any actions or modifications in policies relating to its area of responsibility.

George F. Gray, Chairman. Ian M. Burr, Roger M. Des Prez, Michael H. Ebert, Gerald M. Fenichel, Joel G. Hardman, Jacek Hawiger, Paula C. Hoos, W. Scott McDougal, Neil Osheroff, James W. Pichert, John S. Sergent. Ex Officio: Deborah C. German, Gerald S. Gotterer. Student representatives: Bennet M. Spetalnick, Bradley W. Word, James A. O'Leary.

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. Kathryn M. Edwards, George F. Gray, Craig R. Heim, Paula C. Hoos, William B. Lawson, John N. Lukens, Jr., Walter H. Merrill, Thomas N. Oeltman, Nancy J. Olsen, Richard M. Zaner. Ex Officio: Deborah C. German, Gerald S. Gotterer.

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 department chairmen who compose the Executive Faculty.

Roger M. Des Prez, George F. Gray, Paula C. Hoos, Robert C. MacDonell, Jr., Patrick W. Meacham, Lillian B. Nanney, Wallace W. Neblett III, Virginia L. Shepherd, Thomas R. Soderling.

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. Thomas R. Soderling, Chairman. Frank E. Carroll, Jr., Peter Gettins, John W. Hammon, Jr., Richard L. Hoover, Karl Edward Misulis.

FACULTY. Wallace W. Neblett III, Chairman. Alvin M. Burt III, James A. Duncavage, Alan D. Glick, Richard L. Hoover, Margaret Wood.

GOALS AND GOVERNANCE. Robert C. MacDonell, Jr., Chairman. Benjamin F. Byrd III, Steve Alan Hyman, Rodney A. Lorenz, Lloyd H. Ramsey, Ronald G. Wiley.

MEDICAL EDUCATION. Lillian B. Nanney, Chairman. Paul S. Auerbach, Agnes B. Fogo, Neil Osheroff, James R. Stewart, Lester F. Williams, Jr.

POSTGRADUATE EDUCATION. Roger M. Des Prez, Chairman. Fred Allison, Jr., George C. Bolian, Graham F. Carpenter, Arthur C. Fleischer, William Russell Ries.

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.

Peter R. Martin, Chairman. Raymond F. Burk, Achilles A. Demetriou, Barbara J. Holtzclaw, John A. Phillips III, David M. Regen, Dan M. Roden, Sydney Spector, D. Martin Watterson.
Ex Officio: John H. Hash, David H. Robertson.

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.

Lloyd H. Ramsey, Chairman. Naji Abumrad, Gordon R. Bernard, Stephen S. Feman, Gerald M. Fenichel, Arthur C. Fleischer, Fred Gorstein, Robert H. Ossoff, Winston Clive-Victor Parris. Ex Officio: Marilyn D'Asaro, Robert Gaston, Gerald S. Gotterer.

Faculty Appointments and Promotions

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.

Naji Abumrad, Harvey W. Bender, Jr., Kenneth L. Brigham, G. Roger Chalkley, Robert B. Cotton, Jeffrey Mark Davidson, Garret A. FitzGerald, Marie-Claire Orgebin-Crist. Ex Officio: Gerald S. Gotterer.

Graduate Education

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

Edwin K. Jackson, Chairman. Fred H. Bess, Alan D. Cherrington, Jeffrey Mark Davidson, Peter Gettins, Lynn M. Matrisian, Clark Tibbetts.

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

David G. Schlundt, Chair. Karen E. Campbell, Deana Claiborne, David S. Cordray, A. G. Kasselberg, Joan E. King, Peter R. Martin, R. Coleman Miller, John D. Monaghan, Leslie C. Morey, Steven H. Smartt, William P. Smith, Barbara Sommers, R. Edward Stone, Jr.

Health Sciences Committee

Emmanuel N. Dessypris, Chair. James B. Atkinson III, Penelope H. Brooks, Barbara Chazen, Achilles A. Demetriou, Marie R. Griffin, John H. Hash, Allen H. Heim, Richard L. Hoover, Donna M. Sedlak Hummell, Lewis B. Lefkowitz, Jr., Peter T. Loosen, John A. Morris, Julia C. Morris, Malcolm Oliver Perry, Stephanie M. Perry, Mary Fern Richie, Herbert S. Schwartz, Barbara Sommers, Mrs. Bruce Turner, Jack N. Wells.

International Medical Educational Experiences

The International Medical Educational Experiences Committee acts as a channel for exchange of students and faculty in areas of international education.

Student Representatives: Andrew R. Robinson, Chair. Felice C. Adler, Stephen W. Bent, Barbara L. Hipp, Laura M. Peterson, George G. Robinson II, Stephen B. Siegel, Sarah M. Stelzner.

Faculty Advisors: Daniel G. Colley, Richard M. Heller, Jr., David T. Karzon, William Schaffner, Peter F. Wright. Ex Officio: Deborah C. German, Gerald S. Gotterer.

Coordinator: Janelle Carey Owens

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.

Daryl K. Granner, Chairman. G. Roger Chalkley, Daniel G. Colley, Thomas R. Harris, Alexander R. Lawton, David E. Ong, Warren Jackson Pledger, Dan M. Roden, Linda Jo Van Eldik. Ex Officio: Gerald S. Gotterer, Virgil S. LeQuire.

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.

Sidney Harshman, Chairman. Rebecca C. Culpepper, Mary Louise Donaldson, George F. Gray, Barbara J. Holtzclaw, Lewis B. Lefkowitz, Jr., James A. Patton, D. Martin Watterson. Ex Officio: T. Mark Hodges.

Medical Center Promotion and Tenure Review Committee

The Medical Center Promotion and Tenure Review Committee reports to the Vice-Chancellor for Health Affairs. Its membership is made up of representatives from the School of Medicine and the School of Nursing, and the Dean for Graduate Studies and Research. The committee is responsible for review of all promotions to tenure in the Medical Center.

Denis M. O'Day, Chairman. June C. Abbey, Helen F. Bigler, Frank H. Boehm, Mary Louise Donaldson, Russell G. Hamilton, David T. Karzon, Joyce K. Laben, John N. Lukens, Jr., Marie-Claire Orgebin-Crist, Warren Jackson Pledger, Mildred T. Stahlman, Conrad Wagner.

Promotion Committees

Each promotion committee will have the responsibility for making recommendations to the Dean and the Executive Faculty concerning promotion, remedial action, or dismissal as appropriate for each student in the class for which it is responsible.

Class of 1991

Frank H. Boehm, Chairman. George C. Bolian, John M. Flexner, Robert L. Janco, Howard S. Kirshner, John M. Leonard, Charles B. Rush, Kenneth W. Sharp. Ex Officio: Deborah C. German, Gerald S. Gotterer.

Class of 1992

Alan D. Cherrington, Chairman. Sandra Kirchner, Rodney A. Lorenz, Malcolm Oliver Perry, William O. Whetsell, Jr. Ex Officio: Deborah C. German, Gerald S. Gotterer.

Class of 1993

Robert D. Collins, Chairman. Raymond F. Burk, Achilles A. Demetriou, R. Stephen Lloyd, Elaine Sanders-Bush. Ex Officio: Deborah C. German, Gerald S. Gotterer.

Class of 1994

Craig R. Heim, Chairman. Peter Gettins, J. Harold Helderman, John A. Morris, Lillian B. Nanney. Ex Officio: Deborah C. German, Gerald S. Gotterer.

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 Chancellor 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 Vanderbilt. The committee also is concerned that its policies lead to standards that 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 Health Affairs, the Provost, and the deans of the various schools of the University as it formulates and reviews animal care policies.

Maureen K. Powers, Chair. Thomas F. Barnes, Richard S. Burns, Daniel M. Buxbaum, Debra S. Echt, Desmond J. Fitzgerald, Howard L. Harrod, Donald W. Horne, Mrs. Albert Hutchison, G. Judson Newbern III, David F. Partlett, Elizabeth A. Perkett, Richard H. Porter, Robert J. Roselli, D. Lewis Sly, Steven H. Smartt, Roland W. Stein, Phillip E. Williams.

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 Health Affairs.

Roscoe R. Robinson, Chairman. John E. Chapman, Marjorie Collins, Colleen Conway-Welch, Roger M. Des Prez, Larry E. Deters, Achilles A. Demetriou, Michael H. Ebert, Donald R. Eisert, James H. Elliott, Eugene W. Fowinkle, Fred Gorstein, A. Everette James, Jr., Frederick Kirchner, Jr., Peter T. Loosen, John A. Oates, Joseph C. Ross, John L. Sawyers, Bradley E. Smith, Dan M. Spengler, Alexander S. Townes, Conrad Wagner, Stephen C. Woodward.





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 students traditionally seek—and receive—entrance to residency programs of high quality throughout the country.

The faculty, which represents a variety of specialties and many strong research programs, has a national and international reputation for excellence in the biomedical sciences and clinical care. House staff officers who have teaching duties receive commendation 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, with flexibility to encourage initiative. It provides traditional experiences in the subspecialty disciplines of medicine and offers students research opportunities for academic credit. To enrich and expand the student's understanding of people and nontechnical 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 3,000 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 more than 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 tour of the Medical School facilities with a member of the student body as guide.

A special program encourages enrollment of minority and disadvantaged students who are invited to visit the campus so that they may be interviewed and see the Medical School before making a decision regarding acceptance.

Medical School 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 education offered to alumni and to physicians practicing within the region primarily served by Vanderbilt Hospital.

Mission of the School

The School of Medicine fulfills two parts of the Medical Center's three-fold 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: 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.

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—a system 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 altogether 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 medical 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.

The Medical Research Building, completed in 1989, provides laboratories and academic space for pharmacology, biochemistry, and molecular physiology and biophysics. The eight-story building also houses the A. B. Hancock Jr. Memorial Laboratory for Cancer Research and the positron emission tomography (PET) scanner.

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.

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





Admission



Requirements for Entrance

Vanderbilt School of Medicine seeks students with a strong background in both science and the liberal arts who will have the baccalaureate degree before matriculation. The Medical College Admission Test (MCAT) is required and used along with other observations to predict success in pre-clinical course work.

Applicants must present evidence of having satisfactorily completed the minimum requirements listed below. A semester hour is the credit value of sixteen weeks of work consisting of one hour of lecture or recitation or at least two hours of laboratory.

Biology. Eight semester hours, including laboratory, in either general biology, zoology, or molecular biology. Courses should deal with the structure and function of living organisms at the cellular and molecular level.

Chemistry. A minimum of 16 semester hours, 8 in general inorganic chemistry, including laboratory, and 8 in organic chemistry, covering aliphatic and aromatic compounds and including laboratory.

While a year of inorganic chemistry is designated, Vanderbilt will accept one semester if it represents the fundamental course in chemistry offered by the college as a satisfactory basis for further courses in chemistry. The course must also be considered by the college to be prerequisite and qualifying for course work in organic chemistry.

English and Composition. Six semester hours.

Physics. Eight semester hours, including laboratory. Quantitative laboratory work should be emphasized.

Advanced placement credits are not acceptable in lieu of science requirements. Advanced science courses, however, may be substituted for the traditional requirements.

The faculty of the Vanderbilt University School of Medicine recognizes its responsibility to present candidates for the M.D. degree who have the knowledge and skills to function in a broad variety of clinical situations and to render a wide spectrum of patient care. Candidates for the M.D. degree will ordinarily have the broad preliminary preparation to enter postgraduate medical education in any of the diverse specialties of medicine. All candidates for admission must possess sufficient intellectual ability, emotional stability, and sensory and motor function to meet the academic requirements of the School of Medicine without fundamental alteration in the nature of this program. The Associate Dean, in consultation with the Admissions Committee of the School of Medicine, is respon-

sible for interpreting these technical standards as they might apply to an individual applicant to the School of Medicine.

Recommendations for Entrance

A broad experience in non-science courses is encouraged, especially experience beyond the introductory course level in areas such as English, the humanities, the arts, and the social and behavioral sciences. A major in non-science courses does not affect selection.

Selection Factors

The Committee for Admissions seeks applicants who have demonstrated academic excellence and leadership qualities, with broad extracurricular experience. Experience in research and evidence of a concern for others are positive factors for selection.

The applicant's essay, letters of recommendation, and the interview are also important factors in the Committee's evaluation. Interviews are conducted at Vanderbilt and, for those applicants unable to travel to Nashville, regionally.

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.

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.

Visiting Medical Students

Visiting student status may be afforded students from medical schools accredited by the Liaison Committee on Medical Education or from a limited number of foreign schools with which Vanderbilt maintains exchange programs.

Visiting students are permitted registration for course work in the Medical School (if class space is available) with approval of the department in which course work is visited and with concurrence of the course instructor and the Associate Dean for Students. 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 normal 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 investigators and teachers 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 profit optimally from the strengths of each school.

Admission to the Program

Those applying to the M.D./Ph.D. program should 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 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 the 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. During their first semester, they become familiar with Ph.D. study and research activities of the affiliated graduate programs: Cell Biology, Biochemistry, Biomedical Engineering, Microbiology and Immunology, Molecular Biology, Pathology, Pharmacology, and Molecular Physiology and Biophysics.

Following the orientation program, but before the end of their second 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 the second year of medical school. During this second phase the student meets the Graduate School residency requirements. The third phase consists of the core clinical clerkships of the third year and the elective and selective clinical rotations of the fourth 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.

Certain features concerning the assignment of course credit toward the Graduate School and Medical School degrees should be noted. 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 (tuition and stipend) 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. Candidates are urged to submit their application to the M.D./Ph.D. program as early as possible. In accepting financial support for the program, the student agrees to promote primary effort to M.D./Ph.D. studies, 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 chair of the graduate department involved. Various sources of funds are available with different application requirements, restrictions, obligations, and levels of support. Some potential sources for support available to the student include the following:

Vanderbilt Medical Scientist Scholarship Programs. Currently there are two sources of funding available in support of the scholarship awards, a privately endowed program and a special allocation of funds by the School of Medicine. Both programs pay tuition and fees and provide a stipend of \$11,000 per year. Once awarded, support from these scholarships will continue at the above rate, contingent upon satisfactory performance, until the M.D. degree is awarded.

National Research Service Award. Financial support is available through an institutional grant awarded to Vanderbilt Medical School by the National Institute of General Medical Sciences. The support pays tuition at the current level, provides a stipend of \$8,500 (plus a Medical School supplement bringing total to \$11,000) per year, and includes funds for fees and related expenses. This support is assigned primarily to qualified incoming students. The students should consider special requirements, restrictions, and obligations that are associated with this source of financial

support. As with all federal funding, support is guaranteed for only one year at a time, since all federal funds are reviewed and funded annually. Generally, funds are renewed and support is continued.

Departmental Support. Limited resources are available through graduate departments. Tuition 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 chair 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. Although not guaranteed, financial support can usually be obtained for the graduate phase of the M.D./Ph.D. program.



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. Students develop an elective program to meet individual needs with the help of the faculty and the approval of the Associate Dean for Students or a designee.

All electives are courses for credit. Electives in the first and second years are graded as *Pass* or *Fail*; electives and selectives in the third and fourth years are graded on the same basis as required courses. Electives include lecture or seminar series; specialty clinics, clinical clerkships, or research experience at Vanderbilt or other approved institutions; and, in special circumstances, Vanderbilt undergraduate or graduate courses.

One hour each week is designated for presentations of school-wide interest—lectureships, medical society meetings, and student papers. Since students and faculty are expected to attend these presentations, other class activities are not scheduled at this time.

The Medical School curriculum in the preclinical years 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 Academic Programs Committee and approved by the Executive Faculty and Dean of Medicine.

Major Courses

First Year

Biochemistry, gross anatomy, physiology, cell and tissue biology, microbiology, neurobiology, and human behavior. Saturday mornings and Wednesday and Friday afternoons are reserved for study and electives. Electives available to the first-year student cover a wide range of subjects, including alcohol and drug abuse, human sexuality, death and dying, cancer biology, national issues in medicine, medicine in families and the community, and medical ethics.

Second Year

Laboratory diagnosis and physical diagnosis, additional 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 and physical examination through a series of lectures, demonstrations, and individual practice by the student. A variety of elective courses or independent study electives may be taken on Wednesday and Friday afternoons and also on Monday afternoons in the fall semester or Tuesday afternoons in the spring semester.

Third Year

Medicine, obstetrics and gynecology, pediatrics, surgery, psychiatry, and neurology. Required ward clerkships are scheduled primarily during the third year. Students are assigned to clerkship rotations by a computer program that optimizes their prospects of obtaining their preferred sequence.

Students have close contact with selected patients under the supervision of attending physicians and house staff.

Fourth Year

Clinical selectives and electives in basic science and/or clinical areas. The fourth year is divided into four week academic units. The flexibility of the fourth-year curriculum gives the student maximum opportunity for individual development. Seven full academic units are required, including one ambulatory and two inpatient selective clerkships.

| FIRST YEAR, FALL SEMESTER | | | | | | |
|---------------------------|----------------------------------|------------------|--------------|------------------|--------------|------------------|
| HOURS | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
| 8-9 | Biochemistry | Gross Anatomy | Biochemistry | Microbiology | Biochemistry | Gross Anatomy |
| 9-10 | | | Microbiology | Gross Anatomy | | |
| 10-11 | Biochemistry | Gross Anatomy | Microbiology | Gross Anatomy | Electives | Gross Anatomy |
| 11-12 | Biochemistry | | Biochemistry | | | |
| 12-1 | | | | | | |
| 1-2 | Intro. Biomedical Sciences | Gross Anatomy | Electives | Gross Anatomy | Electives | Gross Anatomy |
| 2-3 | | | | | | |
| 3-4 | | | | | | |
| 4-5 | | | | Dean's Hour | | |

| FIRST YEAR, SPRING SEMESTER—FIRST HALF | | | | | | |
|--|----------------------------------|------------|---------------|---------------|-----------------|--|
| HOURS | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
| 8-9 | Cell Biology (8-10:30) | Physiology | Neurobiology* | Physiology | Cell Biology | *A block for Behavioral Science to be designated within time allocated to Neurobiology |
| 9-10 | | | | | | |
| 10-11 | | | | | | |
| 11-12 | Intro. Biomedical Sciences | Physiology | Electives | Neurobiology* | Electives | |
| 12-1 | | | | | | |
| 1-2 | Physiology | Physiology | Electives | Neurobiology* | Electives | |
| 2-3 | | | | | | |
| 3-4 | | | | | | |
| 4-5 | | | | Dean's Hour | | |

| FIRST YEAR, SPRING SEMESTER—SECOND HALF | | | | | | |
|---|----------------------------------|------------|--------------|--------------|-----------|----------|
| HOURS | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
| 8-9 | | | | | | |
| 9-10 | Cell | | | | Cell | |
| 10-11 | Biology | Physiology | Neurobiology | Physiology | Biology | |
| 11-12 | | | | | | |
| 12-1 | | | | | | |
| 1-2 | Intro. Biomedical Sciences | | | | | |
| 2-3 | | Physiology | Electives | Neurobiology | Electives | |
| 3-4 | Physiology | | | | | |
| 4-5 | | | | Dean's Hour | | |

SECOND YEAR, FALL SEMESTER—FIRST HALF

| HOURS | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|-------|-----------|--------------|-------------|--------------|--------------|----------|
| 8-9 | Pathology | Pathology | Radiology | Pathology | Microbiology | |
| 9-10 | | | | | | |
| 10-11 | | Microbiology | Pathology | | | |
| 11-12 | | | | | | |
| 12-1 | Electives | Pathology | Electives | Microbiology | Electives | |
| 1-2 | | | | | | |
| 2-3 | | | | | | |
| 3-4 | CPC | CPC | Dean's Hour | Dean's Hour | Dean's Hour | |
| 4-5 | | | | | | |

SECOND YEAR, FALL SEMESTER—SECOND HALF

| HOURS | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|-------|-----------|-------------------------|-------------------------|-------------------------|-----------|----------|
| 8-9 | | | | | Radiology | |
| 9-10 | Pathology | Pathology | Laboratory Diagnosis | Pathology | Pathology | |
| 10-11 | | | | | | |
| 11-12 | | | | | | |
| 12-1 | | | | | | |
| 1-2 | Electives | Laboratory Diagnosis | Electives | Laboratory Diagnosis | Electives | |
| 2-3 | | | | | | |
| 3-4 | | | | | | |
| 4-5 | | CPC | | Dean's Hour | | |

SECOND YEAR, SPRING SEMESTER—FIRST HALF

| HOURS | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|-------|------------------------|-----------|--------------|------------------------|------------------------|----------|
| 8-9 | Pharmacology | Physical | Pharmacology | Preventive Medicine | Pharmacology | |
| 9-10 | | | | | | |
| 10-11 | Preventive Medicine | Diagnosis | Pharmacology | Pharmacology | Preventive Medicine | |
| 11-12 | | | | | | |
| 12-1 | | Electives | Electives | Physical Diagnosis | Electives | |
| 1-2 | | | | | | |
| 2-3 | Physical | CPC | Dean's Hour | Dean's Hour | Dean's Hour | |
| 3-4 | Diagnosis | | | | | |
| 4-5 | | | | | | |

SECOND YEAR, SPRING SEMESTER—SECOND HALF

| HOURS | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|-------|--------------|-----------|--------------|-----------------------|--------------|----------|
| 8-9 | Pharmacology | Physical | Pharmacology | Psychiatry | Pharmacology | |
| 9-10 | | | | | | |
| 10-11 | Psychiatry | Diagnosis | | Pharmacology | Psychiatry | |
| 11-12 | | | | | | |
| 12-1 | | | | | | |
| 1-2 | | | | | | |
| 2-3 | Physical | Electives | Electives | Physical Diagnosis | Electives | |
| 3-4 | | | | | | |
| 4-5 | CPC | | | Dean's Hour | | |

Third and Fourth Years—First Half

| 9 July | 6 Aug | 4 Sept | 1 Oct | 29 Oct | 26 Nov | 21 Dec |
|-------------|-------------|-------------|-------------|-------------|-------------|----------|
| Elective | Elective | Elective | Elective | Elective | Elective | Elective |
| Pediatric | Pediatric | Psych/Neuro | Psych/Neuro | Ob/Gyn | Ob/Gyn | |
| Ob/Gyn | Ob/Gyn | Pediatric | Pediatric | Psych/Neuro | Psych/Neuro | |
| Psych/Neuro | Psych/Neuro | Ob/Gyn | Ob/Gyn | Pediatric | Pediatric | |
| | | Medicine | Medicine | Surgery | Surgery | |
| | | Surgery | Surgery | Medicine | Medicine | |

Clerkships

Medicine 10 weeks
Surgery 10 weeks

Pediatrics
Ob/Gyn
Psych/Neuro

8 weeks
8 weeks
8 weeks

(The medicine and surgery clerkships and two of the 8-week clerkships must be completed by July 1 of the fourth year.)

Selectives

- Ambulatory
- Medical Group
- Surgical Group

- 4 weeks
- 4 weeks
- 4 weeks

Electives

A minimum of four additional units of four weeks duration each.

Note: The calendar shows the times during which 10- and 8-week clerkships are scheduled. Most selectives and electives are offered during the 4-week elective units.

Third and Fourth Years—Second Half

| 7 Jan | 4 Feb | 4 March | 1 April | 6 May | 3 June | 28 June |
|-------------|-------------|----------|-------------|----------|-------------|----------|
| Elective | Elective | Elective | Elective | Elective | Elective | Elective |
| Psych/Neuro | Psych/Neuro | | Ob/Gyn | | Pediatric | |
| Ob/Gyn | Ob/Gyn | | Pediatric | | Psych/Neuro | |
| Pediatric | Pediatric | | Psych/Neuro | | Ob/Gyn | |
| Medicine | Medicine | | | Surgery | | |
| Surgery | Surgery | | | Medicine | | |

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 post-doctoral research trainees.

Residency Training

Students preparing for the practice of medicine usually spend three or more years in house staff training. Such experiences at Vanderbilt are particularly varied and well supervised. Applicants for positions are carefully chosen because of the competition for positions. As a result, the house staff makes up a competent and stimulating group, with considerable responsibility in medical student teaching.

The faculty of the School of Medicine has professional responsibilities at Vanderbilt, Veterans, Saint Thomas, Baptist, and Metropolitan Nashville General hospitals. Patients in these hospitals are cared for by members of the medical staff, assisted by 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 patients present a wide spectrum of health problems. The Veterans Administration Hospital, adjacent to the Vanderbilt Medical Center, serves veterans and their families from throughout the mid-south and is an important component of the teaching program. All physicians at the VA Hospital are full-time faculty members of the School of Medicine.

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

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

Continuing Medical Education

Vanderbilt University School of Medicine and Vanderbilt University Medical Center recognize a major commitment to the continuing education of physicians and others in the health professions. The School of Medicine views medical education as a continuum initiated in the undergraduate phase, progressing through graduate medical education, and maturing in ongoing continuing medical education. The professional life of the physician and all health professionals should include activities encompassing this view, with the goal of improving health care for patients. Under the auspices of the Division of Continuing Medical Education, the School of Medicine offers a broad spectrum of courses throughout the year to meet the needs of physicians in practice and other health professionals. Since many courses have limited registration, inquiries should be directed to the Division of Continuing Medical Education.

Courses toward the 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 chairmen 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, and candidates 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

THE School of Medicine operates under the honor system. All work submitted as a part of course requirements is presumed to be the product of the student submitting it unless credit is given in the manner prescribed by the course instructor. Cheating, plagiarizing, or otherwise falsifying results of study are prohibited. 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; students accepted with advanced standing must complete at least the last two years in the Vanderbilt University School of Medicine. All students must have satisfactorily completed 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

The school does not require that students sit for National Board Examinations, Parts I and II. National Boards are considered a means of obtain-

ing licensure. Students will be advised regarding possible advantages of taking these examinations.

Grading 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; the results of examinations, which may be written, oral, or practical; and observation of the student in action. The medical school curriculum builds progressively on the course work of each previous academic year. The courses of each subsequent year require increasing levels of coordination and integration of the material previously presented. Thorough knowledge and understanding of each subject and an appropriate level of skills are therefore required for satisfactory progress to be maintained in the medical curriculum.

Grades

The summative evaluation of academic performance for each course is reported on the following basis:

A — superior or outstanding work in all aspects of course work.

B — completely satisfactory performance in all aspects of course work. The following intermediate grades may be given: *B+*, overall satisfactory performance that includes some elements of superior work; *B-*, overall satisfactory performance that includes some components that are only marginally satisfactory.

C — a conditional grade that reflects performance that is marginal because of important deficiencies in some aspects of course work. The grade of *C* may be applicable for academic credit in an individual course at Vanderbilt only after approval by the student's Promotion Committee and endorsement by the Executive Faculty as reviewed in the light of the student's complete record for the year.

F — unsatisfactory performance resulting in failure.

Electives in the first and second year are graded on a *Pass* or *Fail* basis. Exemplary or inadequate performance in these electives will be documented by supporting narrative evaluations. Electives and selectives in the third and fourth years are graded on the same basis as required courses.

Promotion

Promotion committees of the faculty, in consultation with representatives of the departments responsible for instruction, are charged with making recommendations to the Dean and the Executive Faculty regarding progress and promotions of students in each class. The Executive

Faculty of the School of Medicine has final responsibility for the determination of medical student progress in the school. Decisions on the progress of students during the first two years are ordinarily made at the end of each academic year. In view of the integrated nature of the curriculum in the final two years, no specific decisions on promotion from the third to the fourth year are made. Decisions on the progress of students during these final two years, however, may be made at any time as academic performance may dictate. Ordinarily, decisions for graduation will be made shortly before commencement in the final year.

The committees recommend for promotion those students who have demonstrated personal, professional, and intellectual achievement consistent with faculty expectations at their particular stage of professional development.

The school's academic program is predicated upon providing students an academic environment conducive to successful achievement. Occasionally, however, the outcome is unsuccessful. The Promotion Committees will review the performance of students with deficiencies and make recommendations concerning their progress.

Students who have C (conditional) grades in two or more courses in a single academic year will undergo special review by their Promotion Committee. In light of the student's complete academic record, the committee may recommend promotion, promotion on probation, repetition of all or part of the academic year, or withdrawal from school. Ordinarily, a student with C grades in required preclinical courses accounting for more than half of the scheduled required course hours in a single academic year can expect to repeat an academic year or to withdraw from school. Students who receive C grades in more than two required clerkships can expect to have their progress delayed in order to complete remedial work or to withdraw from school.

Students who fail in a course, whether required or elective, will be required to remedy the failure before being permitted to enter the courses of the next academic year. Credit may be given on the basis of re-examination or satisfactory repetition of the course work, but failures will remain on the record and may be counted as cause for dismissal if additional failure occurs. Students who fail in two courses of fail a re-examination or course repetition may be required to withdraw from the school.

Promotion Committees will ordinarily recommend that students be placed on academic probation if their course work includes any failures or is generally of marginal character as evidenced by multiple C grades. Students placed on academic probation who do not perform in a satisfactory manner during the subsequent academic year will ordinarily be dismissed from school. Students on probation may be withdrawn from school if their academic performance continues at a marginal level, even though there may be no recorded failures. Promotion Committees may recommend removal of probationary status when a student has demon-

strated a continuing record of satisfactory performance in the succeeding units of study.

Students who are shown by work or conduct to be 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 that may compromise their responsibilities at the Medical School. If the outside obligation is considered prejudicial, the student may be required to discontinue it.

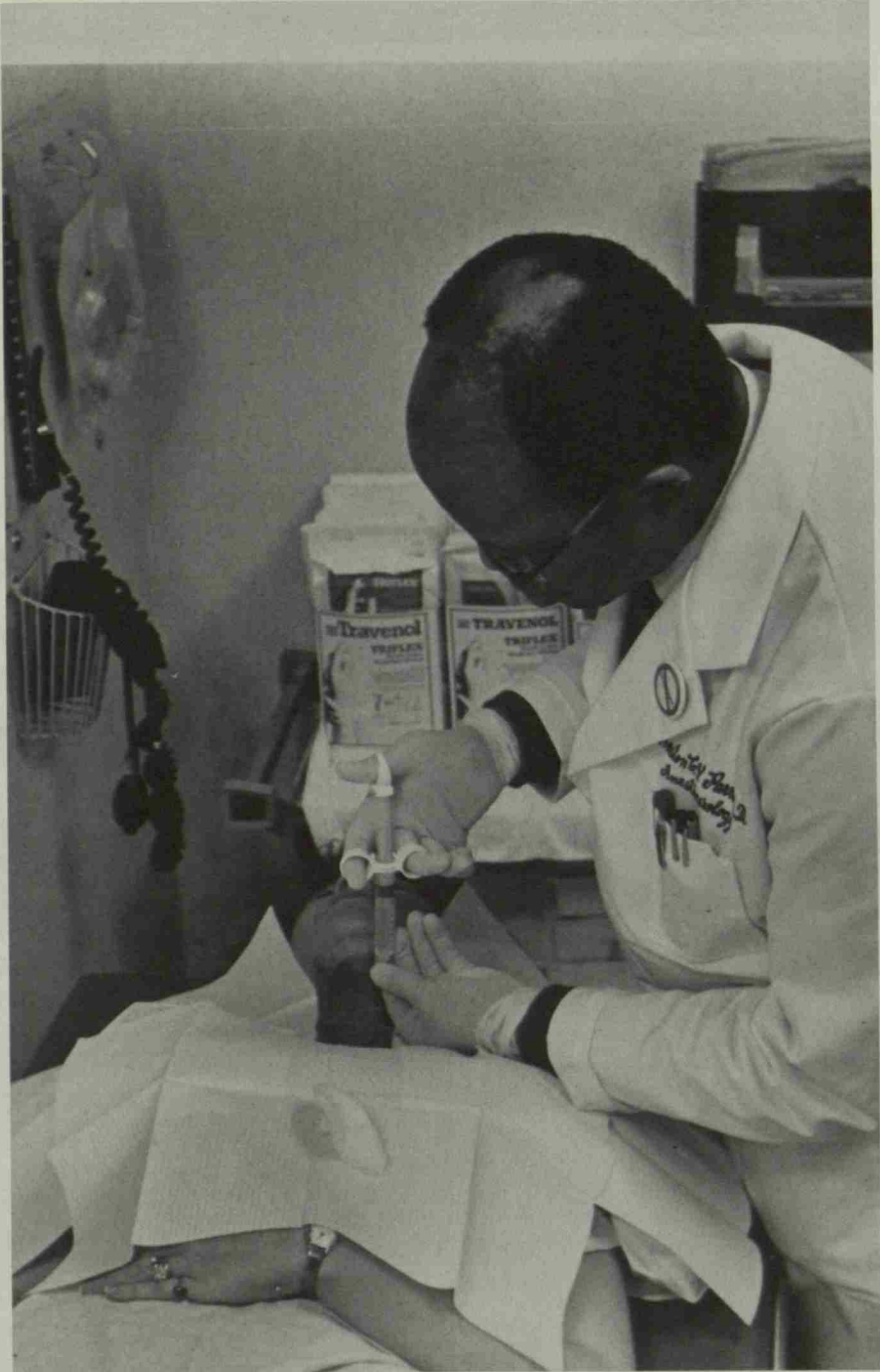
Leave of Absence

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 reconsidered by the Admissions Committee, unless special approval is given by the Dean for a more extended leave.

Professional Liability Insurance

Students will be automatically covered with professional liability insurance, required of all enrolled medical students, 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.

Students are covered whether they are at the Vanderbilt-affiliated hospitals (Vanderbilt University Hospital, Nashville Veterans Administration Hospital, St. Thomas Hospital, or Metropolitan General Hospital) or elsewhere as a "visiting student," providing that (1) the clerkship or other educational experience has prior approval from the School of Medicine as coursework for credit, and (2) the activities within this experience are consonant with the student's level of training and experience and are performed under the supervision of appropriate faculty and/or staff.





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 members of the medical community. 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 to 1973, as associate dean for biomedical sciences from 1973 to 1975, and as acting dean of the School of Medicine from 1973 to 1974. The lectureship is made possible through the generosity of his associates and colleagues in the American Society of Pharmacology and Experimental Therapeutics; the FASEB; the AMA Council on Drugs; the Nashville Academy of Medicine; the 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 donated \$50,000 to Vanderbilt University to establish the Abraham Flexner Lecture-

ship 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 ALVIN F. GOLDFARB LECTURESHIP IN REPRODUCTIVE ENDOCRINOLOGY. Established by the children of Dr. Goldfarb to honor their father, an alumnus of Vanderbilt University School of Medicine, this is the first named lectureship in the Center for Fertility and Reproductive Research. Serving as an important forum for continuing education, the lectureship enables the Vanderbilt medical community to learn from those at the cutting edge of research and practice in reproductive biology.

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

THE J. WILLIAM HILLMAN VISITING PROFESSORSHIP. This professorship was established in 1976 as a tribute to the late Dr. J. William Hillman who served as professor and chairman of the Department of Orthopaedics. To commemorate Dr. Hillman's tireless dedication to the art of teaching, the department annually invites a prominent orthopaedist 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 KROC FOUNDATION LECTURESHIP IN MOLECULAR PHYSIOLOGY AND BIOPHYSICS. Established in 1986 by the Kroc Foundation in honor of Ray A. Kroc and Robert L. Kroc to support several visiting professors each year. These individuals present a "state-of-the-art" lecture on diabetes, insulin action, or a related endocrine topic and consult with faculty members and their groups.

THE PAUL DUDLEY LAMSON MEMORIAL LECTURE. This lectureship was instituted in 1965 in memory of Dr. Lamson who was professor of pharmacology and chairman of the Depart-

ment of Pharmacology from 1925 until his retirement in 1952. A prominent scientist is brought to the campus biennially under the sponsorship of the alumni and staff of the Department of Pharmacology.

THE FRANK H. AND MILBREY 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 DAN MAY LECTURE. Made possible by a gift from the May family, this lecture series honors Mr. May, a Nashville business, educational, and civic leader who was a Vanderbilt graduate, long-time Board of Trust member, and friend of the University. The lecturer is a distinguished scholar of medicine or another discipline with expertise in cardiovascular disease, medical education, or humanistic aspects of medicine.

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 to 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 of Dr. David Rabin to the world of endocrinology. Dr. Rabin was professor of medicine and head of the Division of Endocrinology from 1975 until his death in 1984. This lectureship annually brings 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 to 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 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 is in memory of Dr. Amos Christie, professor of pediatrics, emeritus, who was chairman of the Department of Pediatrics from 1943 to 1968.

JOHN G. CONIGLIO PRIZE IN BIOCHEMISTRY. This award is presented to a medical student who has distinguished him/herself in Biochemistry. Both accomplishments in biomedical research and performance in Biochemistry courses are considered in evaluating candidates. This award was established by friends of Professor Coniglio on the occasion of his retirement to honor his many contributions to medical education at Vanderbilt.

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.

EXCELLENCE IN EMERGENCY MEDICINE. The award for Excellence in Emergency Medicine is given on behalf of the Society for Academic Emergency Medicine. This award recognizes a medical student for outstanding clinical performance in the Emergency Department at Vanderbilt University Medical Center.

THE HOSPITAL AWARD FOR EXCELLENCE. This award recognizes the graduating 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. Awarded by the Department of Medicine to the student who, at the completion of the fourth year of training, is judged by the faculty of the department 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, a 1939 Medical School graduate, 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 ROENTGEN AWARD. This is an annual award to a graduating medical student who has made important contributions in one of the radiological sciences during his or her four years at Vanderbilt Medical School. Named for Wilhelm Conrad Roentgen (1845–1923), a pioneer in diagnostic radiology, the award recognizes discoveries in either clinical or research areas.

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

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 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 in scholastic, personal, and professional achievement, and 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.

THE CANBY ROBINSON SOCIETY AWARD. This award is presented by the Canby Robinson Society to the graduating student whose medical school career exemplifies leadership and service to his class and school.

TENNESSEE ACADEMY OF FAMILY PHYSICIANS AWARD. This award is given to a graduating medical student in recognition of dedication to the high ideals of Family Practice.

THE TOM NESBITT AWARD. Presented by the Nashville Academy of Medicine and the Davidson County Medical Society in recognition of the service and contribution of Tom Nesbitt, M.D., as a member of the academy and the one hundred and thirty-third president of the American Medical Association. Dr. Nesbitt is an Assistant Clinical Professor of Urology. This award is presented to the graduating medical student who has demonstrated an active interest in the socio-economic aspects of medicine.



Financial Information



Tuition and Fees

The annual expense of a student in the School of Medicine is estimated to be \$25,000.

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| Tuition (1990/91 academic year) | \$14,580 |
| Application fee (to accompany final application) | 50 |
| Student activities and recreation fees | 186 |
| Microscope usage fee per year (1st and 2nd years) | 100 |
| Student health insurance | 488 |
| Professional liability insurance | 75 |

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

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. 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. 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 Financial Aid. No refund will be made after the eighth week in any semester.

One half of tuition, total fees, and other University charges are due and payable by 25 September. Second semester tuition and other University charges are due and payable by 25 January.

Late Payment of Fees

Charges not paid by 25 September will be automatically deferred, 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 25 September (\$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 month; and late payment fees will continue for each month thereafter based on the outstanding balance unpaid as of the 25 day of each month. All amounts deferred are due not later than 25 November for fall semester

and 25 April for spring semester. Graduating seniors are not allowed to defer charges that are billed in advance for the final semester. Senior accounts must be clear by 25 January.

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 balance until the account has been paid. Diplomas 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 for these instruments is approximately \$400.

The minimum cost of books is approximately \$400-\$500 per year. The Medical Bookstore accepts cash or major credit cards.

Activities and Recreation Fees

The required annual student activities and recreation fees entitles medical students to use the facilities of Sarratt Student Center and the Student Recreation 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.

The Student Activity Fee (Sarratt and University programs) and the Student Recreation Fee will be waived, upon petition by the student, if he or she is a part-time student registered for 4 or fewer semester hours or if he or she resides while a student beyond fifty miles from the campus. Petitions for waiver of the fall semester fees must be received by 10 September and for spring semester fees by 21 January at the Office of Campus Student Services, Box 6206 Station B, Nashville, Tennessee 37235.

Honor Scholarships

JUSTIN POTTER MEDICAL SCHOLARSHIPS. 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 more than one hundred have been awarded since that time. Applicants must have been accepted for admission to the entering

class of the Vanderbilt School of Medicine and must have submitted a Justin Potter Medical Scholarship application.

Scholarships of \$15,000 annually are awarded to successful candidates and, once awarded, continue for four years contingent upon satisfactory performance. The Justin Potter Medical Scholarship Committee consists of individuals actively involved in the medical and business affairs of the Nashville community.

The method of selection of Justin Potter Scholars is as follows: the committee reviews all available information about each applicant who has been accepted to the entering medical school class, with special emphasis on the applicant's demonstrated leadership or potential for leadership. Candidates selected by the committee are invited to Nashville for personal interviews, with opportunities to meet faculty and former Justin Potter Scholars and to visit the facilities of the Vanderbilt University Medical Center. Following the visit to Nashville, those selected as Justin Potter Scholars are notified.

THE 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 superior students who need financial aid to attend Vanderbilt School of Medicine. One Catherine Easterling Mountcastle Scholar is selected each year by the Scholars Selection Committee from applicants who have accepted official invitation to the School of Medicine.

A scholarship of \$11,000 annually is awarded to the successful candidate and, with satisfactory progress at Vanderbilt, continues for four years.

CANBY ROBINSON SCHOLARSHIPS. Canby Robinson Scholarships provide full tuition and, with satisfactory progress at Vanderbilt, continue for four years. The scholarships are awarded on the basis of academic achievement and financial need. Scholarship recipients are recommended by the Dean and the chairman of the Admissions Committee and chosen by a committee from the Canby Robinson Society.

These scholarships were established in 1986 by the Canby Robinson Society.

THE DELOACHE SCHOLARSHIP. The DeLoache Scholarship is given every four years to an incoming medical student who has demonstrated qualities of scholarship and leadership as well as financial need. To be eligible, the candidate must come from a state specified as a southeastern state east of the Mississippi. It is a full-tuition scholarship for four years of medical study contingent upon satisfactory performance.

Financial Assistance

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

In addition to the Honor Scholarships just described, scholarships and loans are available through Vanderbilt, based on demonstrated financial need and continued satisfactory academic progress. Financial aid from school sources must be considered a supplement to governmental and other sources, 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 (though not all) approved financial aid requests for items basic to the student's subsistence and education have been met from a combination of sources, including the student's personal and family assets and Vanderbilt aid funds.

Satisfactory Performance. Students must perform satisfactorily in order to qualify for financial assistance (see Examinations and Promotions).

Government funds that furnish significant loans to medical students are the Stafford Student Loan program, the Health Education Assistance Loan program, the Supplemental Loan to Students program, and the Health Professions Student Loan program.

Applications for financial aid will be sent to incoming first-year students in January, or if invited after that date, along with the offer of admission to the Medical School. Applicants desiring more specific information about financial aid resources should request a copy of the Vanderbilt University School of Medicine Manual of Student Financial Aid Policies and Procedures from the Medical School Office of Financial Aid.

The following are some of the Vanderbilt University School of Medicine institutional scholarships and loans available to assist students with demonstrated financial need.

Scholarships

THE JAMES T. AND OLIVIA R. ALLEN SCHOLARSHIP FUND. This endowed scholarship was established in memory of Olivia R. Allen and in honor of James T. Allen, a 1942 School of Medicine graduate.

THE EUGENE AND MARGE BESPALOW SCHOLARSHIP FUND. This endowed scholarship fund for deserving medical students was established by Dr. Bruce Dan, a Vanderbilt alumnus, in honor of his grandparents.

THE DR. DANIEL B. BLAKEMORE SCHOLARSHIP FUND. This endowed scholarship was established by the will of Mrs. Nell J. Blakemore in memory of her husband for the benefit of worthy medical students who are in need of financial assistance.

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.

THE CANBY ROBINSON SOCIETY STUDENT SCHOLARSHIP BENEFACTOR PROGRAM. Scholarships are made available to students from members who donate to this program.

THE THOMAS CULLOM BUTLER AND PAULINE CAMPBELL BUTLER SCHOLARSHIP. This endowed scholarship was established by Thomas Cullom Butler, a 1934 School of Medicine graduate, for worthy and needy medical students.

THE ALICE DREW CHENOWETH SCHOLARSHIP. This scholarship honors the career of Dr. Alice Drew Chenoweth, a 1932 School of Medicine graduate who had a distinguished career as a pediatrician in the area of public health.

THE JOE C. DAVIS FINANCIAL AID FUND. Funds were donated by Joe C. Davis for needy and worthy medical students.

THE HERBERT ESKIND MEMORIAL FUND. This scholarship honoring the memory of Mr. Herbert Eskind was established by members of his family. Each recipient is provided with a scholarship of \$1,000.

THE ROBERT SADLER-WILLIAM EWERS SCHOLARSHIP FUND. This endowed scholarship was established in honor of Robert Sadler, a 1947 School of Medicine graduate, and William Ewers, a 1947 School of Medicine graduate.

THE SAM FLEMING SCHOLARSHIP. This scholarship for needy medical students was established by J. T. Stephens in honor of Sam Fleming.

THE RICHARD JAECKLE SCHOLARSHIP FUND. This scholarship was established in memory of Richard Jaeckle, a 1982 School of Medicine graduate.

THE ANN R. LIGHT SCHOLARSHIP FUND. This endowed scholarship was established by Ann R. Light for needy medical students.

THE JACK MARTIN SCHOLARSHIP FUND. This endowed scholarship was established in honor of Jack Martin, a 1953 School of Medicine graduate.

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

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 are to be given second preference.

MINORITY SCHOLARSHIP FUNDS. Funds are available for scholarships for minority medical students on the basis of academic achievement and financial need.

THE RILEY SCHOLARSHIP. This endowed scholarship was established by members of the Riley family: Harris D. Riley, Jr., M.D.; Frank Riley; Richard F. Riley, M.D.; and William G. Riley, M.D.; all of whom are Vanderbilt Alumni.

THE WILLETT H. "BUDDY" RUSH SCHOLARSHIP. Established in memory of Dr. Rush, a 1941 graduate of the School of Medicine, this scholarship honors the dedication he showed to the practice of medicine and the Frankfort, Kentucky community. Awards are given in order of preference to students from Frankfort, Kentucky, the Blue grass region of Kentucky, and then the state of Kentucky.

THE RICHARD M. SCOTT FINANCIAL AID PROGRAM. This endowed scholarship was established by the Medical Class of 1988 to honor Richard M. Scott, Director of Financial Aid for the School of Medicine from 1970 to 1987.

THE JOHN SECONDI SCHOLARSHIP FUND. This endowed scholarship was established in memory of Dr. John Secondi, a 1970 School of Medicine graduate.

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

Other scholarships are available outside of the need-based institutional financial aid program. They are as follows:

THE ELBYRNE GRADY GILL SUMMER RESEARCH SCHOLARSHIPS IN OPHTHALMOLOGY AND OTOLARYNGOLOGY. These scholarships provide support for medical student summer research in the areas of ophthalmology and otolaryngology.

THE MARY AND WILLIAM O. INMAN JR. SCHOLARSHIP FUND. This fund was established by Miss Grace McVeigh to pay tribute to the many contributions to the Brunswick, Georgia, community by the Inmans. This fund supports students in the combined M.D./Ph.D. program.

THE KONRAD LUX SCHOLARSHIP. This endowed scholarship was established by the will of Konrad Lux, a 1925 Vanderbilt University graduate, to benefit students in the Oral Surgery program.

MEADE HAVEN SCHOLARSHIPS IN BIOMEDICAL SCIENCES. Meade Haven scholarships in biomedical sciences have been endowed to provide support for medical students who have made a serious career commitment to obtain advanced experience and training in research in the biomedical sciences.

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 F. TREMAINE BILLINGS REVOLVING STUDENT LOAN FUND. Established by Elizabeth Langford and friends, this loan fund honors Dr. Billings and his many contributions as friend and internist. It is to be used for the education of worthy medical students.

THE O. D. CARLTON II LOAN FUND. This revolving loan fund was established by Hall Thompson in honor of O. D. Carlton II for needy third- and fourth-year medical students.

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 FRANK M. DAVIS AND THEO DAVIS STUDENT LOAN FUND. This endowed scholarship was established by Frank M. Davis, a 1934 School of Medicine graduate.

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

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 TINSLEY HARRISON LOAN FUND. This fund was endowed to assist needy and worthy medical students by Dr. T. R. Deur, a Vanderbilt Medical School alumnus, in memory of Dr. Harrison, a former teacher and clinician at the school.

THE DR. ISADORE DAVID HASKELL FUND. This fund is provided by a bequest from the will of Mrs. Elena G. Haskell. The 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.

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 raised 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.

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 for needy students was established in memory of Karl Metz.

THE J. C. PETERSON STUDENT LOAN FUND. This fund was established in memory of Dr. J. C. Peterson to provide loan monies for deserving medical 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 LOAN FUND. Through the generosity of Robert E. Sullivan, a fund has been established to assist worthy and deserving medical students.

THE ROANE/ANDERSON COUNTY MEDICAL SOCIETY FUND. A revolving loan to a needy medical student, with preference given, when possible, to students from Roane, Anderson, and Morgan Counties of Tennessee.

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 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.

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

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 about \$2,000 to \$3,500 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.

THE DAN MAY SUMMER SCHOLARSHIP IN CARDIOVASCULAR MEDICINE. This scholarship for a predoctoral student was made possible by a gift from the May family in honor of Mr. May, a Nashville business, educational, and civic leader who was a graduate of Vanderbilt, long-time Board of Trust member, and friend of the University. The scholarship provides a summer stipend to support a predoctoral student who shows interest and promise in academic cardiovascular medicine.

THE WILLIAM N. PEARSON FELLOWSHIP FUND. A scholarship for studies in nutrition is awarded by the Department of Biochemistry. Further information is available from the department.

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, student spouses should make inquiry at the Vanderbilt Employment Center.





Research in Medical Sciences

Chairs and Professorships

THE THEODORE R. AUSTIN CHAIR IN PATHOLOGY. This chair is in memory of Dr. Austin, a pathologist who practiced in Alexandria, Virginia. He was an alumnus of Vanderbilt Medical School. The chair was established by his wife, Mrs. Dorothy B. Austin.

THE OSWALD TO AVERY PROFESSORSHIP IN MICROBIOLOGY AND IMMUNOLOGY. Established in 1989, this professorship honors Dr. Oswald T. Avery, a Nashvillian and faculty member of the Vanderbilt University School of Medicine who is one of the leaders in our understanding of the significance of DNA.

THE BETTY AND JACK BAILEY PROFESSORSHIP IN CARDIOLOGY. Through the generosity of Betty and Jack Bailey, this gift was made in support of a professorship in the Division of Cardiology as a tribute to a distinguished physician, Dr. F. T. Billings, Jr.

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 IN REPRODUCTIVE PHYSIOLOGY AND FAMILY PLANNING. In December of 1967, the Department of Obstetrics and Gynecology received funds, through the generosity of an anonymous donor, to endow 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 and Gynecology until his retirement in 1945.

THE CRAIG-WEAVER CHAIR IN PEDIATRICS. Established through the generosity of Elizabeth Proctor, this undesignated chair is to enhance research and teaching programs of Children's Hospital and provide high quality specialty care for children. The chair honors Mrs. Proctor's parents, the late Mr. and Mrs. Edwin Wilson Craig, and her late husband, William C. Weaver, Jr.

THE JOHN CLINTON FOSHEE CHAIR IN 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 endowed in 1976 for the purpose of furthering medical education and research in the field of general surgery.

THE THOMAS F. FRIST CHAIR IN MEDICINE. This professorship was established to support and recognize a distinguished leader-physician-scholar of national stature who combines the qualities of an eminent physician and experienced medical scholar in the person of one with the leadership qualities to have a positive effect upon important issues of medical education, practice, or research. When possible, the occupant of the chair will be the chairperson of the Department of Medicine.

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 ELSA S. HANIGAN CHAIR IN PULMONARY MEDICINE. Mr. John L. Hanigan has endowed this chair in memory of his wife. The chair strengthens the ability to treat and care for patients with respiratory diseases and offers a unique opportunity for Vanderbilt University Medical Center and Saint Thomas Hospital jointly to develop innovative programs in pulmonary research, education, and rehabilitation.

THE MICHAEL J. HOGAN PROFESSORSHIP IN OPHTHALMOLOGY. Established in 1989, the professorship honors Dr. Michael J. Hogan, an important contributor to the field of ophthalmology.

THE HARRY JOHNSON PROFESSORSHIP IN NEPHROLOGY. Established by Dialysis Clinics, Inc., this professorship for the chief of the Division of Nephrology is to foster and enhance research and education at Vanderbilt in the field of nephrology.

THE GUY M. MANESS CHAIR IN OTOLARYNGOLOGY. This chair was created through the generosity of Dr. Maness, longtime friend of Vanderbilt Otolaryngology. The chair launches a comprehensive program of education, research, and treatment of diseases of the ears, nose, throat, head, and neck at Vanderbilt.

THE JAMES C. OVERALL CHAIR IN PEDIATRICS. Through the generosity of Mr. and Mrs. William K. Warren of Tulsa, Oklahoma, this chair was endowed 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 LEO AND MARGARET MILNE RECORD CHAIR IN SURGERY. This chair was established through the generosity of Dr. Record, a prominent Chattanooga physician, and his wife.

THE PAUL W. SANGER CHAIR IN 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, 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 to 1982.

THE ADDISON B. SCOVILLE JR. CHAIR IN MEDICINE. This chair has been endowed to support and recognize a distinguished physician scholar whose accomplishments in investigative medicine will enrich and strengthen the scientific endeavors of the Department of Medicine. The Addison B. Scoville Professor will be appointed by the Dean of the Vanderbilt

University School of Medicine upon the advice of the chairperson of the Department of Medicine.

THE ADDISON B. SCOVILLE JR. PROFESSORSHIP IN 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 hold this endowed chair may by background and training be nondenominational theological scholars, ethics scholars, philosophy scholars, scholars in the law, or members of the teaching faculty of a school of medicine.

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

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

THE MARY GEDDES STAHLMAN CHAIR IN CANCER RESEARCH. Through the generosity of Mr. James C. Stahlman, this professorship was endowed 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 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 WILLIAM STOKES CHAIR IN EXPERIMENTAL THERAPEUTICS. Established through the generosity of the Daiichi Seiyaku Company of Japan. William Stokes was a 19th century Dublin physician who made many contributions to cardiovascular medicine. He wrote the first treatise on the stethoscope published in English and has had several syndromes named after him, including the Stokes-Adams attack and Cheyne-Stokes respiration. The chair resides in clinical pharmacology.

THE MINA COBB WALLACE CHAIR IN IMMUNOLOGY. Established through the generosity of John Wallace in memory of his mother. The chair will support advancements in education and research in the field of immunology.

THE JOE AND MORRIS WERTHAN PROFESSORSHIP IN EXPERIMENTAL MEDICINE. Through the generosity of the Werthan family of Nashville, this professorship was established in 1951 for the purpose of furthering research in the general field of internal medicine.

THE WESLEY WILKERSON CHAIR IN AUDIOLOGY. This chair was established by Thomas and Jane Yount in memory of her father, Wesley Wilkerson, who founded the Bill Wilkerson Hearing and Speech Center. This chair will enhance the three-fold mission of the Bill Wilkerson Center—research, education, and service.

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 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

Theodore Pincus, Director

The program of this center is organized around five Vanderbilt-associated rheumatologists who participate 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.

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 nuclei 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

David H. Robertson, Director

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. It fulfills these objectives 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

Harry L. Greene, Director

The CNRU is one of 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; the vitamin-trace element metabolism in patients with chronic dialysis or with essential fatty acid deficiency; the 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 Diabetes and Digestive and Kidney Diseases.

Diabetes Research and Training Center

Oscar B. Crofford, Director

The Vanderbilt Diabetes Research and Training 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 administration. The activities 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 National Institutes for Health.

Center in Molecular Toxicology

F. Peter Guengerich, Director

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

Tadashi Inagami, Director

The objective of the SCOR (Specialized Center of 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.

The accomplishments of the center's investigators include 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 I₂ 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

Mildred T. Stahlman, Director

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

Gerald M. Fenichel, Director

This center is based primarily in the Department of Neurology. Its primary mission is clinical trials in neuromuscular disorders. There are ongoing studies in muscular dystrophy, spinal muscular atrophy, amyotrophic lateral sclerosis, and polymyositis. The center is funded primarily by grants from the Muscular Dystrophy Association.

Center for Pharmacology and Drug Toxicology

John A. Oates, Director

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 Reproductive Biology Research

Marie Claire Orgebin-Crist, Director

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 research grants related to both basic and clinical aspects of the reproductive sciences.

SCOR in Pulmonary Vascular Diseases

Kenneth L. Brigham, Director

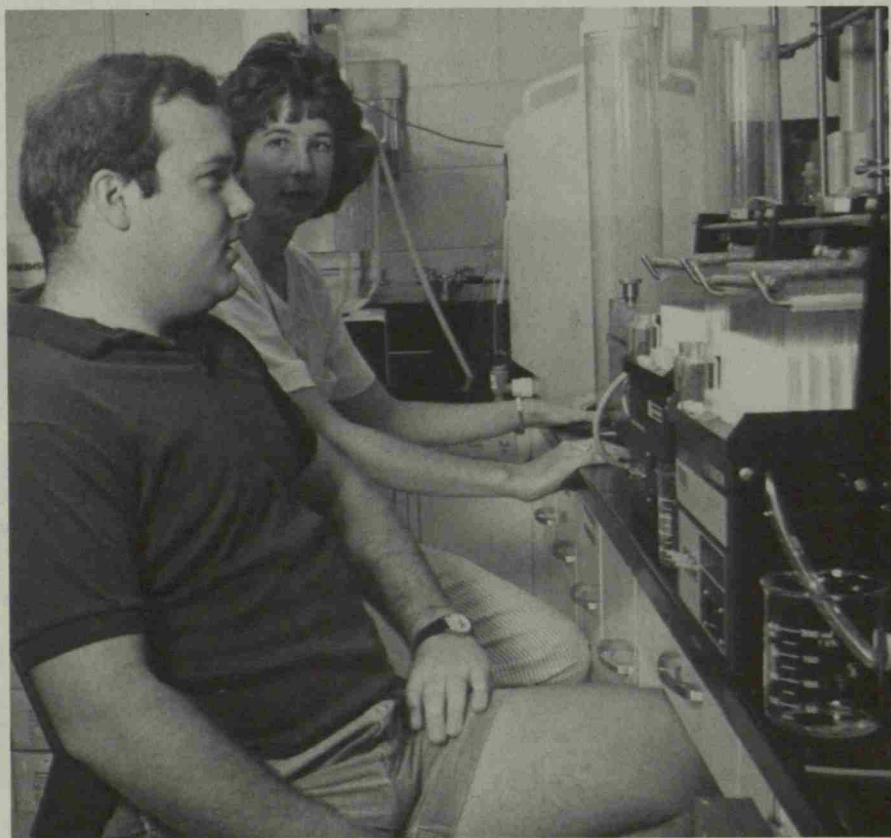
The SCOR in Pulmonary Vascular Diseases involves nineteen full-time investigators from the departments of medicine, pediatrics, pathology, surgery, pharmacology, and others. The general focus of research is on lung circulation—specifically, on mechanisms of lung vascular injury and on the response of the lung to such injury. Investigations range from basic laboratory studies to clinical studies in patients with acute respiratory failure.

Principal support is derived 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.

Center for Lung Research

Kenneth L. Brigham, Director

This center stimulates and facilitates lung research and training throughout the institution. Investigators who represent nine departments and who are engaged in a wide range of basic and clinical research hold appointments in the center. These investigators work both individually and in collaboration with many other faculty members. The center serves to identify important research opportunities, to assist investigators in identifying collaborators within and without the institution, and to facilitate the research process by providing physical facilities, financial support, and administrative and scientific expertise. The SCOR in Newborn Lung Diseases and the SCOR in Pulmonary Vascular Diseases are basic components of the Center for Lung Research, and there are close relationships between the center and the departments of medicine, pediatrics, pathology, biomedical engineering, pharmacology, and molecular physiology and biophysics, as well as other departments in the School of Medicine.





Courses of Study



School of Medicine Departments

Anesthesiology
Biochemistry
Cell Biology
Hearing and Speech Sciences
Medical Administration
Medicine
 Dermatology
Microbiology and Immunology
Molecular Physiology and Biophysics
Neurology
Obstetrics and Gynecology
Ophthalmology
Orthopaedics and Rehabilitation
Pathology
Pediatrics
Pharmacology
Preventive Medicine
 Biostatistics
Psychiatry
Radiology and Radiological Sciences

SURGICAL SCIENCES

General Surgery
Dentistry
Neurosurgery
Oral Surgery
Otolaryngology
Pediatric Surgery
Plastic Surgery
Thoracic and Cardiac Surgery
Urology

Anesthesiology

- CHAIRMAN Bradley E. Smith
 PROFESSORS M. Lawrence Berman, John Watson Downing, John J. Franks, Duncan A. Holaday, Bradley E. Smith, Margaret Wood
 RESEARCH PROFESSOR Brian J. Sweetman
 CLINICAL PROFESSORS David A. Chadwick, Lawrence G. Schull
 ASSOCIATE PROFESSORS Jayakumar Reddy Kambam, Paul H. King, Joanne L. Linn, Loren D. Nelson, Winston Clive-Victor Parris, Charles W. Quimby, Jr.
 VISITING ASSOCIATE PROFESSOR Ronald J. Gordon
 ASSOCIATE CLINICAL PROFESSORS Geoffrey Berry, Walter Umberger Brown, Jr., Yilmaz Eryasa, Ramon S. Harris, James M. Phytthyon
 ASSISTANT PROFESSORS Phillip A. Abston, Ildefonso A. Alcantara, Patricia Lynn Bowers, Edward N. Brin, Gilberto Carrero, Kevin L. Donovan, Wallace Louis Friedman, Bennett Franklin Horton, Sr., Steve Alan Hyman, Wesley W. Kinney, Thomas Warren Lee, Thomas C. Lewis, Edwin J. Lilly, Stephanie M. Perry, Jere K. Price, David P. Schwartz, David W. Smith, Volker Ingo Adolf Striepe, Geeta Wasudev
 ASSISTANT CLINICAL PROFESSORS Michael W. Bertz, Charles G. Cannon, Jr., Pong M. Chang, Will E. Ferguson, John Frederick Kittrell Flanagan, Erol Genca, Thomas J. Holcomb III, James W. Menzie, David Netterville, Howard Weil, William F. Yost
 CLINICAL INSTRUCTORS John E. Erpenbach, James A. Ramsey
 ASSISTANT Stephen T. Blanks
 RESEARCH ASSOCIATE Darel G. Hess

✦ THE Department of Anesthesiology offers lectures 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.

Biochemistry

- INTERIM CHAIRMAN James V. Staros
 DISTINGUISHED PROFESSORS Frank Chytil, Stanley Cohen
 EMERITI Harry P. Broquist, John G. Coniglio, William J. Darby, Willard R. Faulkner, Wayland J. Hayes, Jr., Robert A. Neal, Benjamin J. Wilson
 PROFESSORS Wayne F. Anderson, Graham F. Carpenter, G. Roger Chalkley, Leon W. Cunningham, F. Peter Guengerich, Tadashi Inagami, Lawrence J. Marnett, David E. Ong, John A. Phillips III, James V. Staros, Oscar Touster, Conrad Wagner
 VISITING PROFESSOR E. Neige Todhunter
 ASSOCIATE PROFESSORS Robert J. Boucek, Jr., Peter Gettins, Harry L. Greene, Carl G. Hellerqvist, R. Stephen Lloyd, Neil Osheroff

RESEARCH ASSOCIATE PROFESSORS Jorge H. Capdevila, Benjamin J. Danzo, Donald W. Horne, Virginia L. Shepherd

ADJUNCT ASSOCIATE PROFESSOR Dixie W. Frederiksen

ASSISTANT PROFESSORS Barbara Mroczkowski, Marcia E. Newcomer, Laken G. Warnock

RESEARCH ASSISTANT PROFESSORS Robert C. Briggs, Robert J. Cook, Marion L. Dodson,

Jr., Roy A. Fava, Shunzo Nishibe, Thomas N. Oeltmann, Kailash N. Pandey, Augustinus

Rinaldy, Ann M. Soderquist, Masaaki Tamura

RESEARCH INSTRUCTORS Jon T. Conary, Cheryl Ann Guyer, Naoharu Iwai

ASSISTANTS Takao Kondo, Yeu Fen Wang

RESEARCH ASSOCIATES Mahmoud Aminlari, Rebecca L. Ball, Philip C. Burcham, Eric Walter

T. Chojmicki, James T. Davis, Robert W. Donaldson, Hiroaki Furuta, Elizabeth M. J. Gillam,

Marc Girardet, Yukihiko Goda, Peter DeLay Gorycki, Takao Hamakubo, Riaz ul-Haq, S. M.


Teresa Hernandez-Sotomayor, Chuan Ji, Gun Il Kang, Hiroshi Kato, Dong-hyan Kim,

Fumiko Konishi, Shigeo Nakajo, Jaime E. Nieves, Shigeru Ohmori, Tetsuya Oida, Timothy

C. Quick, G. Ramachandra Reddy, Punam Sandhu, Marie-Agnes Sari, Udai S. Singh,

Alexander D. Sorkin, C. Gordon Todderud, Ludmila Weclas-Henderson, Yoshiaki Yamano,

Chul-Ho Yun

 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; 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 years 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, hormones, lipids, nucleoproteins, and on the chemistry and function of enzymes, vitamins, and other factors related to cellular metabolism and body processes. The application of recombinant DNA methodologies for the study of human disease is also discussed. The Biochemistry Laboratory course accompanies Biochemistry 501 and emphasizes chemical, physical, and physiological aspects of topics presented there. FALL. Dr. Staros, Dr. Osheroff, and Staff.

Cell Biology

CHAIRMAN Harold L. Moses

EMERITI Jack Davies, James W. Ward

PROFESSORS R. Benton Adkins, Jr., Alvin M. Burt III, Vivien A. Casagrande, John A. Freeman, Loren H. Hoffman, Brigid L. M. Hogan, Virgil S. LeQuire, Harold L. Moses, Gary Edward Olson, Marie-Claire Orgebin-Crist, Warren Jackson Pledger, William O. Whetsell, Jr.


ASSOCIATE PROFESSORS Robert J. Coffey, Jr., Thomas Oran Daniel, G. Rodman Davenport, Jon H. Kaas, Edward B. Leof, Lynn M. Matrisian, James McKanna, Lillian B. Nanney, Jeanette J. Norden, J. Ann Richmond, Daulat Ram P. Tulsiani, Linda Jo Van Eldik

ADJUNCT ASSOCIATE PROFESSOR Robert C. Bone

ASSISTANT PROFESSORS Carlos L. Arteaga, Stephen J. Brandt, Bruce W. Ennis, Susan R. Fox, Curt H. Hagedorn, Steven K. Hanks, Stephen R. Hann, Jeffrey T. Holt, Paula C. Hoos, Claude M. Nagamine, Linda Sealy, Roland W. Stein, Christopher V. E. Wright

RESEARCH ASSISTANT PROFESSORS Brian R. Costello, Roy A. Fava, Nancy Olashaw, Kevin E. Salhany

RESEARCH ASSOCIATES Aporn Chuncharunee, Alfonso Claps, Vladimir Drozdoff, Zafroula Georgoussi, Jon A. Jackson, John Kelly Johnson, Carsten Jonat, Nobuyuki Kamata, Andrew A. Lettes, Li-Hsien Lin, Karen M. Lyons, Yasuhisa Matsui, Susan McDonnell, Catherine S. Murphy, James E. Olson, Richard H. Selinfreund, Archana Srivastava

 THE Department of Cell Biology 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 neurobiology, surgical anatomy, neurochemistry, and cell biology.

Required Courses

501. Cell and Tissue Biology. This course is designed to give students a familiarity with the properties of cells, in particular their interactions with one another to compose the tissues and organs of the 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 activities of cells and tissues. SPRING. Dr. Davenport, Dr. Hoffman, and Staff.

502. Gross Anatomy. The course is devoted to a systematic dissection of the human body. This is supplemented by lectures and demonstrations. The emphasis is on the function and clinical relevance of the anatomical structures. Saturday morning lectures are concerned with the embryological basis of the anatomical structures and emphasize the problem of congenital abnormalities. FALL. Dr. Hoos and Staff.

503. Neurobiology. This course provides first year medical students and graduate students with a solid understanding of the organization of the human central nervous system, integrating basic information from neuroanatomy, neurophysiology, and neurochemistry. Students are also introduced to the most up-to-date research being conducted in neurobiology, with special emphasis on research with potential clinical significance. Additional clinical material is provided by patient presentations and an introduction to neuropathology. Two to four hours of lecture and four hours of laboratory per week. SPRING. Dr. Norden and Staff.

Hearing and Speech Sciences

DIRECTOR OF THE DIVISION Fred H. Bess

EMERITUS Jay Sanders

PROFESSORS Fred H. Bess, Russell J. Love, Robert H. Ossoff

ADJUNCT PROFESSORS Michael E. Glasscock III, Harold R. Mitchell, Eugene C. Nelson

ASSOCIATE PROFESSORS Jay W. Hall III, Howard S. Kirshner, Ralph N. Ohde, Judith A. Rassi, R. Edward Stone, Jr.

ADJUNCT ASSOCIATE PROFESSOR D. Wesley Grantham

ASSISTANT PROFESSORS Marleen T. Ochs, Carol A. Sammeth, Wanda G. Webb

ADJUNCT ASSISTANT PROFESSORS Bertha Smith Clark, Rita Jo Gillis, Anne Forrest Josey, Barbara F. Peek

ASSISTANT CLINICAL PROFESSORS John R. Ashford, C. Gary Jackson

INSTRUCTORS Gene W. Bratt, Susan A. Logan

ADJUNCT INSTRUCTOR Laura Knox

CLINICAL INSTRUCTORS Sara Greene Hoffman, Blake B. Lazenby, Mary A. Schaffer, Paulette W. Shanks, Anne Marie Tharpe

✿ 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 hearing or 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

VICE-CHAIRMAN John O. Lostetter

PROFESSORS John E. Chapman, Gerald S. Gotterer, A. Everette James, Jr.

ASSOCIATE PROFESSORS T. Mark Hodges, Norman B. Urmey

ADJUNCT ASSOCIATE PROFESSOR Dennis K. Wentz

ASSOCIATE CLINICAL PROFESSOR Alexander C. McLeod

ASSISTANT PROFESSORS Deborah C. German, Donald E. Hancock, Allen H. Heim, John O. Lostetter, Charles W. Quimby, Jr.

ADJUNCT ASSISTANT PROFESSOR Robert H. Crumby

ASSISTANT CLINICAL PROFESSOR Charles E. McKay

INSTRUCTORS Winfred L. Cox, Larry E. Deters, Ian S. Easton

CLINICAL INSTRUCTORS David T. Dodd, Warren F. McPherson

ASSISTANT Philip N. Bredesen

✿ 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 professional organizations and government bodies in medical education, issues in health care at all levels, and the transition to medical practice and medical practice management. Special subject seminars are encouraged.

Medicine

CHAIRMAN John A. Oates

VICE-CHAIRMAN Allen B. Kaiser

ASSOCIATE CHAIRMAN Lloyd H. Ramsey

EMERITI F. Tremaine Billings, Richard A. France, Thomas F. Frist, Robert A. Goodwin, Jr., Samuel S. Riven, Addison B. Scoville, Jr., Harrison J. Shull, Clarence S. Thomas

PROFESSORS Martin J. Blaser, Robert A. Branch, Kenneth L. Brigham, Thomas G. Burish, Raymond F. Burk, Daniel G. Colley, Oscar B. Crofford, Jr., Roger M. Des Prez, Garret A. FitzGerald, John M. Flexner, Gottlieb C. Friesinger II, Daryl K. Granner, Frank Anthony Greco, Kenneth R. Hande, Thomas R. Harris, J. Harold Helderman, Harry R. Jacobson, Lloyd E. King, Jr., Sanford B. Krantz, Peter T. Loosen, Barbara O. Meyrick-Clarry, John A. Oates, David N. Orth, Theodore Pincus, Lloyd H. Ramsey, L. Jackson Roberts II, David H. Robertson, Rose M. Robertson, Roscoe R. Robinson, Dan M. Roden, Joseph C. Ross, William D. Salmon, Jr., William Schaffner, John S. Sergeant, Raphael Smith, James D. Snell, Jr., W. Anderson Spickard, Jr., William J. Stone, Paul E. Teschan, Alexander S. Townes, Alastair J. J. Wood, Richard M. Zaner

RESEARCH PROFESSOR Samuel Enoch Stumpf

CLINICAL PROFESSORS Robert H. Alford, W. Barton Campbell, Laurence A. Grossman, Herman J. Kaplan, Clifton Kirkpatrick Meador, Harry L. Page, Thomas Guv Pennington

ASSOCIATE PROFESSORS Najj Abumrad, Paul S. Auerbach, George R. Avant, Gordon R. Bernard, Maurice C. Bondurant, Jorge H. Capdevila, Graham F. Carpenter, Robert J. Coffey, Jr., Thomas Oran Daniel, Emmanuel N. Dessypris, G. Dewey Dunn, Philip W. Felts, Desmond J. Fitzgerald, James T. Forbes, Mervyn B. Forman, Stanley E. Graber, David W. Gregory, John D. Hainsworth, Raymond M. Hakim, Craig R. Heim, David H. Johnson, H. Keith Johnson, Allen B. Kaiser, Mark J. Koury, William J. Kovacs, Marvin W. Kronenberg, John M. Leonard, James E. Loyd, Robert C. MacDonell, Jr., Samuel R. Marney, Jr., James M. May, L. Clifford McKee, John H. Newman, James W. Pichert, J. Ann Richmond, Jean E. Rinaldo, Martin P. Sandler, Stephen Schillig, Richard P. Schneider, Paul E. Slaton, Jr., James R. Snapper, Richard S. Stein, George P. Stricklin, Steven N. Wolff, Robert J. Workman

VISITING ASSOCIATE PROFESSOR Bjorn Åkesson

RESEARCH ASSOCIATE PROFESSORS Jerry C. Collins, Marc Schapira, Virginia L. Shepherd, Christa A. Stoscheck

ADJUNCT ASSOCIATE PROFESSORS John R. Chiple, Paul C. McNabb II

ASSOCIATE CLINICAL PROFESSORS Benjamin J. Alper, James Erwin Anderson, Jr., Mark S. Averbuch, Robert Seth Cooper, John H. Dixon, Jr., E. William Ewers, James P. Fields, Howard R. Foreman, Rand T. Frederiksen, Francis W. Gluck, Jr., Fred Goldner, Jr., Alan L. Graber, John Hooper Griscom, Thomas B. Haltom, James R. Hamilton, Marcus C. Houston,

John S. Johnson, Alexander C. McLeod, James M. Perry, Jr., Paul R. Stumb, Charles B. Thorne, Lawrence K. Wolfe

ASSISTANT PROFESSORS Lowell B. Anthony, Carlos L. Arteaga, Kamal F. Badr, Neil L. Barg, Italo Biaggioni, Renata E. Bluhm, Joseph F. Bonfiglio, Stephen J. Brandt, Margaret M. Brennan, Julia Glynn Breyer, Matthew D. Breyer, Brenda J. Butka, Benjamin F. Byrd III, Peter J. Campbell, Jay A. Cherner, Alan D. Cherrington, John Lai C. Ch'ng, Brian W. Christman, John W. Christman, Frank Chytil, Michael D. Decker, Russell Foster DeVore III, Raymond G. Dufresne, Jr., Theodore E. Eastburn III, Debra S. Echt, Darrel L. Ellis, Howard A. Fuchs, Deborah C. German, Barney Scott Graham, John P. Greer, Marie R. Griffin, Curt H. Hagedorn, Byron Haitas, David E. Hansen, Mary Alice Harbison, Raymond C. Harris, Jr., Darrell L. Hirt, Ellen B. Hunter, Donald P. Island, Mark W. Jacokes, Lee Workman Jordan, Douglas S. Kernodle, John T. Kihm, Sally J. Killian, Howard R. Knapp, Robert H. Latham, John T. Lee, Lewis B. Lefkowitz, Jr., William H. Leyva, Christopher D. Lind, Mark A. Magnuson, Michael E. May, Robert T. Means, Jr., Thomas R. Mitchell, John J. Murray, Katherine T. Murray, John H. J. Nadeau, Thomas N. Oeltmann, Nancy J. Olsen, Spyros N. Pavlou, Mark Arden Pierce, Alvin C. Powers, James S. Powers, Ann H. Price, Stephen Paul Raffanti, David G. Ratcliff, David G. Schlundt, Gerald Schulman, Donna L. Seger, William E. Serafin, James R. Sheller, Ghodratollah Siami-Araghi, Dirk Snyders, Malcolm A. Steele, Stanford J. Stewart, Charles W. Stratton, Arthur P. Wheeler, David C. Wilson, James P. Wilson, Susan Wodicka, Barry E. Yarbrough

VISITING ASSISTANT PROFESSOR Marco Romano

RESEARCH ASSISTANT PROFESSORS Jon T. Canary, Ronald E. Gates, Stanley B. Higgins, Kristina E. Hill, Jonathan J. Lipman, Thomas D. Noland, Richard E. Parker, Zhiheng Pei, Guillermo I. Perez-Perez, Elizabeth A. Perkett, Stephen T. Sawyer, Kihito Takahashi

ADJUNCT ASSISTANT PROFESSOR Bruce David White

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INSTRUCTORS Jim C. Chow, Timothy L. Cover, Hanson Buford Cowan, Douglas A. Gentile, David William Haas, Thomas J. Killian, Stacey W. McKenzie, Robert T. Means, Jr., Wendell E. Nicholson, Melissa Reynolds Rogers, Simpson Bobo Tanner IV, Seth W. Wright, David M. Zientek

RESEARCH INSTRUCTORS Rasul Abdolrasulnia, M. Candice Burger, Richard L. Hebert, Philip A. Patston

ADJUNCT INSTRUCTORS Vinita Anand, John E. Anderson, Robert J. Berkompas, Michael D. Callaway, Thomas H. Callaway, Jeffrey A. Canter, Marshall H. Crenshaw, Tracey Doering, Thomas W. Faust, Christopher W. Fletcher, James A. Gaume, Lawrence D. German, Mark S. Goldfarb, Barbara Greco, Stanley M. Lee, Marvin Porter Meadors III,

Robert F. Miller, Bjarki J. Olafsson, Albert C. Roach, Vito K. Rocco, William Barney Smith, Bruce L. Wolf, George Dewey Wright

CLINICAL INSTRUCTORS Edward E. Anderson, H. R. Anderson, T. Dee Baker, Jack M. Batson, John Breinig, Jack W. Coggeshall, Alan G. Cohen, Alan C. Dopp, Deborah R. G. Doyle, John W. Duncan, Robert C. Dunkerly, Jr., Irwin B. Eskind, Jeffrey B. Eskind, Cheryl Ann Fassler, Robert P. Graham, Jr., James P. Gregory, Fred L. Haley, David P. Hall, Phillip W. Hayes, A. Clyde Heflin, Jr., H. Douglas Holliday, Robert M. Hollister, Jeffrey L. Hymes, Thomas A. Jantz, Ira T. Johnson, James S. Kennedy, Otto Morse Kochtitzky, Michel E. Kuzur, Michael J. Magee, William R. McDaniel, Guat-Siew Lee McKee, Michael P. Miller, Fernando Miranda, William G. Morris, Robert L. Neaderthal, Daryl L. Nichols, Michael Niedermeyer, Bernard J. Pass, John G. Pearson, Michael J. Pecora, William H. Pettus, Robert S. Quinn, William B. Ralph, Jr., Frank M. Rembert, R. Michael Rodriguez, Howard E. Rosen, Marvin J. Rosenblum, Sol A. Rosenblum, Robert M. Roy, Howard Lee Salyer, Herbert J. Schulman, John Robert Schweikert, Lucien C. Simpson, W. David Strayhorn, Jr., W. Wade Sutton, Stephen T. Ticaric, Aubrey Lee Tucker, Jr., F. Karl VanDevender, James W. Ward, Jr., Ann O. Wehr, Paul W. Wheeler, Eugen J. Winter

ASSISTANT Sandra N. Powers

ADJUNCT ASSISTANT Mary Ann Laubacher

RESEARCH ASSOCIATES Alice Gung, Ryoji Hiramatsu, Adolph J. Januszkiewicz, Karen A. Munger, Zhi-chao Qu, Nancy L. Rogers

Dermatology

DIRECTOR OF THE DIVISION Lloyd E. King, Jr.

EMERITUS Robert N. Buchanan

PROFESSOR Lloyd E. King, Jr.

ASSOCIATE PROFESSORS Graham F. Carpenter, J. Ann Richmond, George P. Stricklin

RESEARCH ASSOCIATE PROFESSOR Christa A. Stoscheck

ASSOCIATE CLINICAL PROFESSORS James P. Fields, James R. Hamilton

ASSISTANT PROFESSORS Raymond G. Dufresne, Jr., Darrel L. Ellis

RESEARCH ASSISTANT PROFESSOR Ronald E. Gates

ASSISTANT CLINICAL PROFESSORS William B. Harwell, Jr., Dana L. Latour, Alvin H. Meyer, C. Gordon Vire, Frank G. Witherspoon

CLINICAL INSTRUCTORS William R. McDaniel, Bernard J. Pass, Howard Lee Salyer, Lucien C. Simpson

✧ THE Department of Medicine offers four areas of required course work, two of them in the second year:

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

Fourth Year. Fourth-year 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, 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 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, hypertension, 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; correlations in cardiological disease; basic concepts of cancer; clinical diagnosis of cancer; cancer therapy; and laboratory experiences in cardiac catheterization.

Required Courses

501.1. Laboratory Diagnosis. This course introduces the student to the laboratory in clinical medicine, emphasizing its application to understanding basic pathophysiology. Areas covered include hematology, gastroenterology, nephrology, neurology, rheumatology, and clinical microbiology. In most of these areas, the student will spend some time gaining experience in the laboratory. Dr. Stein and staff.

501.2 Physical Diagnosis. Education of second-year 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 and staff.

502. Clinical Clerkship. The third-year class is 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 135 beds used in teaching, plus an additional 21 beds in the Clinical Research Center. The Veterans Administration Hospital has approximately 120 teaching beds. At Vanderbilt Hospital these services include patients with diseases of the skin in addition to general medical patients. 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. Ward work is supplemented by numerous teaching and subspecialty conferences held throughout the academic year. Dr. Leonard, Dr. DesPrez, Dr. Sergent, and Staff of the Department of Medicine

520. Ambulatory Clerkship. During a four-week unit each fourth-year student participates in a didactic program on issues related to care of patients in an ambulatory setting. The students also work with patients in one of three clinical settings: general medicine, general pediatrics, or the emergency service. Dr. Hickson and staff.



Microbiology and Immunology

CHAIRMAN Jacek Hawiger

PROFESSORS Tamar Ben-Porat, Martin J. Blaser, Daniel G. Colley, Sidney Harshman, John H. Hash, Jacek Hawiger, Alexander R. Lawton, Theodore Pincus, John P. Robinson, Clark Tibbets

ASSISTANT PROFESSORS John P. Donahue, Neil Green, Peter F. Wright

RESEARCH ASSISTANT PROFESSORS Ibrahim S. Barsoum, Sheila Downs Timmons

INSTRUCTOR Goro Tachiyama

RESEARCH INSTRUCTOR Mayme L. Blankenship Wood

RESEARCH ASSOCIATES Silvana Maria Eloi-Santos, Vitthal S. Kulkarni, Linda M. Reilly, Laszlo Zsak

✧ THE Department of Microbiology and Immunology 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

502. Basic Microbiology and Immunology. First year. This course provides an introduction to Microbiology, including microbial genetics and basic immunology. FALL. Dr. Harshman and staff.

501. Microbiology and Immunology. Second year. Lectures and laboratory exercises. The important bacterial, mycotic, parasitic, and viral infections are considered from the standpoint of etiology, epidemiology, pathogenesis, immunology, and laboratory diagnosis. Prerequisite: Biochemistry 501, 502 or equivalent. FALL. Dr. Harshman and staff.

Molecular Physiology and Biophysics

CHAIRMAN Daryl K. Granner

EMERITI H. C. Meng, Charles Rawlinson Park

PROFESSORS Najj Abumrad, G. Roger Chalkley, Alan D. Cherrington, Jackie D. Corbin, John H. Exton, Fayez Ghishan, Daryl K. Granner, Tetsuro Kono, Jane H. Park, Robert L. Post, David M. Regen, Thomas R. Soderling


ASSOCIATE PROFESSORS Albert H. Beth, Kenneth L. Brigham, Oscar B. Crofford, Jr., David N. Orth

RESEARCH ASSOCIATE PROFESSOR P. Anthony Weil

ASSISTANT PROFESSORS Nada A. Abumrad, Joseph M. Beechem, Achilles A. Demetriou, Sharron H. Francis, Mark A. Magnuson, Owen Patrick McGuinness, Linda Sealy, Roland W. Stein, Michael M. Tamkun, William L. Taylor, David H. Wasserman

RESEARCH INSTRUCTORS K. Balasubramanian, Stephen B. Bocckino, Roger J. Colbran, Richard R. Whitesell

RESEARCH ASSOCIATES Claire J. Allan, Janet L. Atkinson, Guy Augert, Jonathan L. Blank, Barry Brass, Debra A. Brickey, Ernst Burki, Mihail B. Calalb, Charles E. Cobb, Susan R. Cordle, Stephen N. Davis, Mary Shimkus Faber, Steve Faber, Yiu-Lian Fong, Toshihiko Fujiwara, Enyu Imai, Thomas L. Jetton, Hiroyuki Nakanishi, Edouard L. Noisin, Richard M. O'Brien, Michael J. Pagliassotti, Brian Perrino, Samuel Pfaff, Alain Robichon, Raja Sekhar, John B. Shabb, Karen Shaw, Hiroshi Shibata, Rafat Siddiqui, Kuniaki Suzuki, Stephen J. Taylor, Masahiko Wada, Chaio-yin Kathy Wang, Hideyuki Yamamoto

 THE Department of Molecular Physiology and Biophysics 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 Molecular Physiology and Biophysics, in conjunction with a sponsoring faculty member. Opportunities to participate in research activities are available to fourth-year students as electives.

Required Courses

501. Molecular Physiology and Biophysics. This course consists of lectures and laboratory work designed to cover the essentials in Molecular Physiology and Biophysics for first-year medical students. It or its equivalent is also required of all graduate students majoring in Molecular Physiology and Biophysics. SPRING. Dr. Corbin and staff.

520. Introduction to Biomedical Sciences. Each student is assigned to a faculty preceptorship and completes a research project. SPRING. Dr. Regen (coordinator) and faculty of participating departments.

Neurology

CHAIRMAN Gerald M. Fenichel

VICE-CHAIRMAN Howard S. Kirshner

PROFESSORS Wolf-Dietrich Dettbarn, Gerald M. Fenichel, Frank R. Freeman, H. Carl Haywood, Howard S. Kirshner, John Sloan Warner

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ASSISTANT PROFESSORS Bassel W. Abou-Khalil, Mary Ellen Clinton, Mark Jennings, Michael J. McLean, Karl Edward Misulis, Kathleen M. Shannon, Wanda G. Webb

ASSISTANT CLINICAL PROFESSORS Blaise Ferraraccio, Barbara J. Olson

✦ THE Department of Neurology offers instruction in neurobiology to first-year students, seminars in clinical neurology to second-year students, and instruction in diseases of the nervous system to third-year students. 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, movement disorders, 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 weeks. Students are given direct responsibility for the evaluation and care of patients under the supervision of house staff and faculty. This brief exposure is intended to provide the students with an approach to patients with diseases of the nervous system. Dr. Kirshner and staff.

Obstetrics and Gynecology

CHAIRMAN Lonnie S. Burnett

PROFESSORS Frank H. Boehm, Lonnie S. Burnett, Benjamin J. Danzo, John Watson Downing, A. Everette James, Jr., Howard W. Jones III, Marie-Claire Orgebin-Crist

CLINICAL PROFESSORS Henry W. Foster, C. Gordon Peerman, Jr., Houston Sarratt

ASSOCIATE PROFESSORS Stephen S. Entman, Arthur C. Fleischer, John W. Greene, Beverly Jane Rogers, Daulat Ram P. Tulsiani

ASSOCIATE CLINICAL PROFESSORS Larry T. Arnold, Roger B. Burrus, Angus M. G. Crook, James F. Daniell, Jr., James H. Growdon, Jr., Joel T. Hargrove, James W. Johnson, James B. Millis, Robert H. Tosh

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VISITING ASSISTANT PROFESSOR J. T. M. Vreeburg

RESEARCH ASSISTANT PROFESSOR Michael K. Holland

ASSISTANT CLINICAL PROFESSORS Benjamin H. Caldwell, Jr., George B. Crafton, B. Stephens Dudley, Marvin G. Gregory, Ralph R. Kling, Jr., Roland D. Lamb, H. Newton Lowvorn, Jr., Roy W. Parker, John E. VanHooydonk

ASSOCIATE Elizabeth Ann Colvin Huff


INSTRUCTORS Elizabeth Oldfield, Richard Lynn Rosemond, Charles B. Rush

RESEARCH INSTRUCTOR Yoshihiko Araki

CLINICAL INSTRUCTORS R. Terry Adkins, Harry Baer, Donald R. Barnett, Robert R. Bendt, Michael Robert Bishop, Mary Anne Blake, James M. Brakefield, Leslie Baker Breiten, Phillip L. Bressman, Guillermo Cadena, Jill F. Chambers, Jackson Daniel Cothren, Richard John Davis, Robert T. Dodd, Joe Michael Edwards, Frederick L. Finke, Charles M. Gill, Bruce R. Goodman, Paul A. Green, Jr., Erich B. Groos, Larry D. Gurley, M. Bruce Hirsch, Charlie Joe Hobdy, Orrin Lester Jones, Jr., John L. Link II, Donald R. Lovelace, Marcia A. Montgomery, Sam Houston Moran, V. Tupper Morehead, Betty K. S. Neff, H. Clay Newsome III, Philip A. Nicholas, Jennifer Lynne Oakley, Richard E. Presley, Ron N. Rice, Sherrie A. Richards, Jorge Riestra, Jacqueline Lee Rodier, Gilmore M. Sanes, Jr., Stephen M. Staggs, Willborn D. Strode, William D. Sumpter, Jr., Anthony E. Trabue, Ramona N. Walsh, Amy Gregory Weeks, Norman E. Witthauer, Carl W. Zimmerman

ASSISTANTS Lisa K. Mandeville, Nanette H. Troiano

RESEARCH ASSOCIATES Subir Kumar Nag Das, Marjorie D. Skudlarek, Matti Vierula

 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-sixth of the third-year class is assigned for eight weeks in each year. An introductory experience in inpatient and outpatient obstetrics and gynecology is obtained. One-half of the experience will be at the Nashville General Hospital. Dr. Rush and staff.

Ophthalmology

CHAIRMAN James H. Elliott

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ASSOCIATE CLINICAL PROFESSORS Roy C. Ezell, Wallace H. Faulk, Jr., Gary W. Jerkins, Reginald Lowe, Jr.

ASSISTANT PROFESSORS Karla Jensen Johns, Carolyn M. Parrish

ASSISTANT CLINICAL PROFESSORS Abraham Pacha Cheij, John E. Downing, L. Rowe Driver, Meredith A. Ezell, Walter W. Frey, Stephen E. Grinde, Robert R. Henderson, Lee Roy Minton, Charlie R. Smith, Joseph W. Wahl

CLINICAL INSTRUCTORS E. Dale Batchelor, John B. Bond III, James A. Bookman, Joseph E. Boone, Jr., M. Terry Burkhalter, James E. Burnes, Harvey P. Cole III, James F. Conrad, James W. Felch, Bruce E. Jones, John M. Omohundro III, Howard R. Rosenblum, Joseph

W. Scobey, J. Nicholas Terhune, K. Shannon Tilley, Gates J. Wayburn, Jr., Roseanna Aileen Webb
 ASSISTANT Thomas C. Leonard-Martin

✦ 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 clinical exposure in ophthalmology. An elective course available in the second year consists of lectures on the basic and clinical aspects of ophthalmology. An elective fourth-year clerkship and clinic provide intensive clinical experience.

Required course

502. Ophthalmology Clinical Clerkship. Third year. During the third year, students may participate in ophthalmology as a two-and-a-half-week clinical rotation in the surgical subspecialty rotations. The student gains operating room experience, and a series of lectures is presented. Students also participate in general ophthalmology and ophthalmic subspecialty clinics. Staff.

Orthopaedics and Rehabilitation

CHAIRMAN Dan M. Spengler

VICE-CHAIRMAN Neil Edward Green

PROFESSORS Neil Edward Green, Dan M. Spengler

CLINICAL PROFESSORS S. Benjamin Fowler, A. Brant Lipscomb

ASSOCIATE PROFESSORS Marion C. Harper, Kenneth D. Johnson, Thomas J. Limbird

ASSISTANT PROFESSORS Joseph D. Chenger, Michael J. Christie, Dennis P. Devito, Mark P. McAndrews, Michael A. Milek, E. Paul Nance, Jr., Herbert S. Schwartz, Richard G. Shiavi, Richard G. Stiles, Horace E. Watson

RESEARCH ASSISTANT PROFESSOR Tony Keller

ASSISTANT CLINICAL PROFESSORS John Wilson Thomas Byrd, Donald L. Gaines, Christopher Ihle, Frank E. Jones, A. Brant Lipscomb, Jr., Paul D. Parsons

SENIOR ASSOCIATE David P. Guy

INSTRUCTORS Peter Donald Masso, Michael J. McNamara, Edward D. Rutledge

RESEARCH INSTRUCTOR Bruce A. Pflieger

CLINICAL INSTRUCTORS Allen F. Anderson, John C. Brothers, Shannon S. Curtis, Michael Craig Ferrell, Robert K. Johnston, Gary D. Rubin, William Alfred Shell, Jr., Robert B. Snyder

✦ THE Department of Orthopaedics and Rehabilitation provides second-year students an introduction to orthopaedic surgery in association with the methodology of clinical science. In the third year the department offers an introduction to clinical orthopaedic surgery and some experi-

ence in an orthopaedic 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 orthopaedic surgery. An elective clerkship is available to students in their fourth year. The department also offers an opportunity for third- and fourth-year students to do research in orthopaedic surgery.

Required Course

502. Orthopaedics. Third year medical students may have the opportunity to elect a two and one-half week rotation in orthopaedic surgery, student participation in ward patient care, clinic assignments, operating room experience, and daily conferences. Dr. Watson and staff.

Pathology

CHAIRMAN Fred Gorstein

EMERITI Mary Edmond Phillips Gray, Martin G. Netsky

PROFESSORS Robert D. Collins, Jeffrey Mark Davidson, Fred Gorstein, George F. Gray, Richard L. Hoover, Virgil S. LeQuire, Barbara O. Meyrick-Clarry, William M. Mitchell, Harold L. Moses, David L. Page, Mildred T. Stahlman, William O. Whetsell, Jr., Stephen C. Woodward

ADJUNCT PROFESSOR Martin Charles Mihm, Jr.

CLINICAL PROFESSORS Armand Barry Glassman, Robert G. Horn, Hugo C. Pribor, Clyde Thornsberry, Renu Virmani

ASSOCIATE PROFESSORS James B. Atkinson III, Gyorgy A. Csako, Alan D. Glick, Susan A. Halter, Michael A. Haralson, Myron A. Holscher, Fritz F. Parl, Marc Schapira, Charles W. Stratton, Larry L. Swift, Charles H. Wallas, Robert J. Workman

VISITING ASSOCIATE PROFESSOR Maria Gabriella Giro

ASSOCIATE CLINICAL PROFESSORS Richard D. Buchanan, Louis S. Graham, Richard Oldham, Ronald W. Oxenhandler, Bertram E. Sproffkin, Edwin Arthur Steane, John Brown Thomison


ASSISTANT PROFESSORS Mary L. Abram, David Lee Black, Robert C. Briggs, John B. Cousar, Jr., Anh H. Dao, Hugh A. Davies, Dominique Delbeke, Agnes B. Fogo, Wayne F. Green, William C. Gruber, Charles W. Harlan, Jeffrey T. Holt, A. G. Kasselberg, Marsha C. Kinney, William H. Leyva, Thomas L. McCurley III, David C. Montefiori, Kevin G. Osteen, William Harry Rodgers, Herbert S. Schwartz, Gregory C. Sephel, Jean Fair Simpson, D. Lewis Sly, Stanford J. Stewart, Kyi T. Tham, Cindy L. Vnencak-Jones, Neal T. Wetherall

RESEARCH ASSISTANT PROFESSORS Caroline Broadley, Kenneth Norman Broadley, Samuel J. Dimari, Kevin E. Salhany

ADJUNCT ASSISTANT PROFESSOR Ronald Bruce Wilson

ASSISTANT CLINICAL PROFESSORS Maurice M. Acree, Jr., Jere W. Baxter, Barrett D. Brantley, Harry G. Browne, Daniel D. Canale, Jr., Sara J. Clariday, Deborah O. Crowe, Ben Weldon Davis, Samuel Houston deMent, Rufus Jack Freeman, Julia C. Goodin, Thomas

E. Hanes, Gretel C. Harlan, Jerry K. Humphreys, Thomas E. Mason, Edward C. McDonald, Philip G. Pollock, Harty Stewart Powell, Mary Pullig Schatz, Steven J. Schultenover, Christopher P. Stowell, David J. Switter, Robert W. Wahl, Ellen P. Wright, John E. Wright
SENIOR ASSOCIATES Herman Benge, Martha K. Miers, Hilda B. Ratner, Patricia C. Tanley
ASSOCIATES Maralie Gaffron Exton, Mary Carole Smith
INSTRUCTORS H. Gayle Jacobs, Mahlon D. Johnson, William Edward Robinson, Jr.
RESEARCH INSTRUCTOR Barbara Christie-Pope
CLINICAL INSTRUCTORS Carla M. Davis, Larry M. Lewis, Daniel W. Scruggs
RESEARCH ASSOCIATE Jiyong Zhou

 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. Dr. Gray, Dr. Stratton, and staff.

Pediatrics

CHAIRMAN Ian M. Burr

EMERITI Randolph Batson, Sarah H. Sell

PROFESSORS Robert J. Boucek, Jr., Ian M. Burr, Robert B. Cotton, Gerald M. Fenichel, Fayez Ghishan, Thomas P. Graham, Jr., Harry L. Greene, Richard M. Heller, Jr., Iekuni Ichikawa, David T. Karzon, Alexander R. Lawton, John N. Lukens, Jr., John A. Phillips III, Mildred T. Stahlman, Hakan W. Sundell, Mark Lee Wolraich, Peter F. Wright

VISITING PROFESSOR Takashi Kamijo

ADJUNCT PROFESSORS Festus O. Adebajo, Mary Ann South

- CLINICAL PROFESSORS Eric Martin Chazen, William M. Doak, William Brown Wadlington, Ethel Walker
- ASSOCIATE PROFESSORS Merlin G. Butler, Kathryn M. Edwards, Neil Edward Green, John W. Greene, Thomas A. Hazinski, Richard L. Hoover, Robert L. Janco, Anthony W. Kilroy, Daniel P. Lindstrom, Rodney A. Lorenz, Robert C. MacDonell, Jr., Wallace W. Neblett III, Jayant P. Shenai
- ADJOINT ASSOCIATE PROFESSOR David Muram
- ASSOCIATE CLINICAL PROFESSORS Luther A. Beazley, Eugene L. Bishop, Jr., Norman M. Cassell, John P. Fields, William F. Fleet, Leonard J. Koenig, Stanley M. Lee, Joseph F. Lentz, William R. Long, Robert E. Mallard, Dan S. Sanders, Jr., Charles Gordon Rennick Sell, David D. Thombs, Earl E. Vastbinder, Arville V. Wheeler, G. Wallace Wood
- ASSISTANT PROFESSORS John A. Barnard, Steven I. Benn, Robert Maurice Brayden, Deborah Mobley Bryant, Ellen Wright Clayton, Gay Deitrich-MacLean, Terence S. Dermody, Debra A. Dodd, Barbara Engelhardt, Frank A. Fish, Agnes B. Fogo, James C. Gay, Frances P. Glascoe, John P. Greer, William C. Gruber, Marta Hernanz-Schulman, Gerald B. Hickson, James O. Hill, George W. Holcomb III, Donna M. Sedlak Hummell, Mark Jennings, James A. Johns, A. G. Kasselberg, Sandra Kirchner, Valentina Kon, Gordon A. Moreau, Jennifer L. Najjar, Elizabeth A. Perket, John B. Pietsch, Diane Pincus, David Brent Polk, Michael Henry Sherman, Wendy L. Stone, Marshall Lynn Summar, Cindy L. Vnencak-Jones, Lynn S. Walker, Mark J. Werner, Aida Yared
- RESEARCH ASSISTANT PROFESSORS Midori Awazu, Jeffrey King Beckman, Toshio Homma, William E. MacLean, Jr., Louise A. Rollins-Smith, Kenneth L. Sandberg, Toshimasa Yoshioka
- ADJUNCT ASSISTANT PROFESSOR Francis Joseph McLaughlin III
- ASSISTANT CLINICAL PROFESSORS H. Victor Braren, Sam W. Carney, Jr., Ray L. Dubuisson, Ralph Greenbaum, Douglas C. Henry, Charles S. Hirshberg, Hossein Massoud, John R. Morgan, Susan M. O'Connor, James S. Price, Jorge Rojas-Brassetti, Robert S. Sanders, Joseph Steranka, Dorothy Jean Turner, Thomas C. Whitworth, Erle E. Wilkinson, Thomas B. Zerfoss, Jr.
- SENIOR ASSOCIATE Juliette M. Thompson
- ASSOCIATE Cheryl W. Major
- INSTRUCTORS Laurie V. Alsentzer, Anna Baumgaertel, Rita A. Fie, Regina A. Gruber, Andras Khoor, Evon Batey Lee, Rachel Lenox Mace, Reeta Misra, John Jeffrey Reese, Margaret G. Rush
- RESEARCH INSTRUCTORS Sun Ming, Kathryn B. Sherrod
- ADJUNCT INSTRUCTORS Barbara S. Culley, Olayinka Onadeko
- CLINICAL INSTRUCTORS Lindsay K. Bishop, Janet G. Blackwell, Robert C. Bone, Arthur Scott Brooks, Robert E. Burr, Susan B. Campbell, Richard H. Cowan, Lisa T. Craft, George T. Critz, Paul M. Douthitt, Mary Catherine Dundon, Eva M. Ewers, Lee Ann Freeman, Johnny E. Gore, Roland W. Gray, Eddie Hamilton, James P. Henderson, Patricia Hicks, Robert H. Hutcheson, Jr., John O. Jackson, Jr., Margreete Johnston, Barbara Kennedy, Mary E. Keown, Lowry D. Kirby, Elizabeth W. Koonce, Elizabeth Duke Krueger, Deidre Lanier, H. Brian Leeper, Russell B. Leftwich, Ruth Barron Long, George C. Martin, Susan G. McGrew, Raymond L. Meneely, Ronald V. Miller, Cleveland Moore, Susan Lynn Morgan, David M. Moroney, Joe Persius Moss, Jr., Dewey G. Nemece, John T. Netteville, Jr., Steven W. Neubauer, Kenneth T. North, Barbara J. Olson, Gabe A. Payne, Jr., Elizabeth P. Pierce, Richard E. Rainey, Patricia F. Robinson, Dan S. Sanders III, E. Conrad Shackelford, Jr., Neena D. Shah, Michael R. Sharpe, William T. Slonecker, C. Norman Spencer, Barbara N. Stephens, C. A. Stilwell, David W. Storey, Steven M. Tate, Julia Thompson, Elizabeth Grimes

Triggs, Diane Marie Vosberg, Joan W. White, Bernard A. Wiggins, Melissa A. Will, Kenneth N. Wyatt

ASSISTANTS Noushin Arab, Melinda P. Cohen, Susan C. Donlevy, Vickie L. Hannig, Mary Fran Hazinski, Jean P. Pfothenauer, Janet Ulm

RESEARCH ASSOCIATES Salmo Raskin, Malgorzata Sladek

✦ 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; nutrition rounds; the fundamentals of human development; methods of delivering pediatric medical care in rural areas; urban health problems; child behavior and growth and development.

Pediatric clinics available to fourth-year students include allergy, urology, genetics, cystic fibrosis, behavior, crippled children's, host defense, rheumatology, endocrinology, renal, diabetic endocrine, and general pediatrics. Fourth-year students may participate in the following clerkship electives: ward experience at Vanderbilt Hospital and Nashville General Hospital, pediatric immunology, neonatology, pediatric infectious diseases, pediatric neurology, child development, rural health, ambulatory pediatrics, pediatric cardiology, pediatric endocrinology, pediatric hematology, and pediatric gastroenterology and nutrition. Inpatient and outpatient experience are part of all but the Vanderbilt Hospital ward clerkship. Private practice preceptorships are available to some fourth-year students. Research electives in the fourth year include programs in newborn physiology and most pediatric sub-specialties.

Required Courses

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. Burr, Dr. Janco, and staff.

520. Ambulatory Clerkship. During a four-week unit each fourth-year student participates in a didactic program on issues related to care of patients in an ambulatory setting. The students also work with patients in one of three clinical settings: general medicine, general pediatrics, or emergency service. Dr. Hickson and staff.

Pharmacology

CHAIRMAN Lee E. Limbird

EMERITUS Allan D. Bass

PROFESSORS Ian A. Blair, Alan R. Brash, John E. Chapman, Wolf-Dietrich Dettbarn, Michael H. Ebert, John H. Exton, Garret A. FitzGerald, Joel G. Hardman, Edwin K. Jackson, Lee E. Limbird, John A. Oates, L. Jackson Roberts II, David H. Robertson, Dan M. Roden, Elaine Sanders-Bush, B. V. Rama Sastry, Fridolin Sulser, D. Martin Watterson, Jack N. Wells, Grant R. Wilkinson, Alastair J. J. Wood

RESEARCH PROFESSORS Steven E. Mayer, Sydney Spector

ASSOCIATE PROFESSORS Robert J. Barrett, M. Lawrence Berman, Richard S. Burns, Desmond J. Fitzgerald, Kenneth R. Hande, Erwin J. Landon, Peter R. Martin, Oakley S. Ray, Peter W. Reed, Linda Jo Van Eldik, Ronald G. Wiley, Margaret Wood

ASSISTANT PROFESSORS Paul B. Bennett, Jr., Italo Biaggioni, Daniel M. Buxbaum, Howard R. Knapp, Michael J. McLean, John J. Murray, Katherine T. Murray, William E. Serafin, Richard C. Shelton, Michael K. Skinner, Michael M. Tamkun

RESEARCH ASSISTANT PROFESSORS Thomas J. Lukas, Chandra Prakash

INSTRUCTORS David Lee Black, Colin D. Funk, Karl Edward Misulis

RESEARCH INSTRUCTORS Catherine T. Anthony, Ramzi F. Sabra

RESEARCH ASSOCIATE W. Bolton Smith

✦ 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 pharmacokinetics, drug metabolism, cardiovascular pharmacology, molecular pharmacology, psychopharmacology, 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 are demonstrated in clinical correlations and by animal experiments. In conferences students learn to evaluate critically the results of drug trials. SPRING. Dr. Limbird and staff.

Preventive Medicine

CHAIRMAN William Schaffner

EMERITUS Robert W. Quinn

PROFESSORS Lewis B. Lefkowitz, Jr., William Schaffner

ASSOCIATE PROFESSOR Eugene W. Fowinkle

ASSISTANT PROFESSORS Michael D. Decker, Marie R. Griffin, Joyce M. Piper
ASSISTANT CLINICAL PROFESSORS Robert S. Sanders, Dorothy Jean Turner
INSTRUCTOR Ronald I. Shorr
RESEARCH INSTRUCTOR Purushottam B. Thapa
CLINICAL INSTRUCTORS John S. Derryberry, Robert H. Hutcheson, Jr.

Biostatistics

DIRECTOR OF THE DIVISION William D. Dupont
PROFESSOR Charles F. Federspiel
ASSOCIATE PROFESSORS William D. Dupont, Wayne A. Ray
ASSISTANT PROFESSORS Robert A. Parker, George W. Reed

✦ THE Department of Preventive Medicine offers a second-year course in the fundamentals of epidemiology, medical statistics, and the basic principles of public health and preventive medicine. Electives available to students at various levels include biometry; clinical trials and medical surveys; sampling methods; environmental/occupational health; and special projects in public health. A preceptorship in primary health care and clerkships in applied public health, sexually-transmitted diseases, and family and community medicine are also available to second- and fourth-year students as electives.

Required Course

503. Principles of Epidemiology, Biostatistics, and Preventive Medicine. A course of lectures and seminars providing second-year students with the preventive point of view in the practice of medicine, making them aware of the major health problems and the changing nature of these problems, and acquainting them with the organized forces working for the advancement of public health. Subjects considered include: epidemiology, etiology, modes of transmission, and methods of prevention and control of communicable diseases; the venereal disease problem; environmental and occupational diseases; 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. SPRING. Dr. Schaffner and staff.

Psychiatry

CHAIRMAN Michael H. Ebert
EMERITI Marc H. Hollender, Virginia Kirk, Warren W. Webb, LaVergne Williams

PROFESSORS Virginia D. Abernethy, Thomas A. Ban, Leonard Bickman, Pietro Castelnuevo-Tedesco, Michael H. Ebert, Volney P. Gay, Howard S. Kirshner, Peter T. Loosen, Barry Nurcombe, Oakley S. Ray, Howard B. Roback, Elaine Sanders-Bush, Fridolin Sulser, William O. Whetsell, Jr.

VISITING PROFESSOR Peter R. Bieck

RESEARCH PROFESSOR Sydney Spector

CLINICAL PROFESSORS David Barton, Charles E. Wells

ASSOCIATE PROFESSORS George C. Bolian, Richard S. Burns, Carol J. Dashiff, Steven D. Hollon, Robert D. Hunt, Robert M. Kessler, Joseph D. LaBarbera, Peter R. Martin, James L. Nash, Michael J. Tramontana

RESEARCH ASSOCIATE PROFESSOR Dennis E. Schmidt

ASSOCIATE CLINICAL PROFESSORS Robert W. Adams, Jr., Robert O. Begtrup, Charles Corbin, Jr., J. Emmett Dozier, Jr., Joseph Fishbein, Ronald F. Kourany, Kent Kyger, Samuel O. Okpaku, William M. Petrie, Vernon H. Sharp, Charles B. Smith, Frank W. Stevens, C. Richard Treadway

ASSISTANT PROFESSORS William H. Anderson, Robert Gray Bobbitt, Denise D. Davis, Lawrence S. Gaines, Judy Garber, Thomas Dino Geraciotti, Jr., Mark Kutcher, William B. Lawson, Richard A. Margolin, Michael J. McLean, Leslie C. Morey, Rudra Prakash, William M. Regan, Karen H. Rhea, Richard C. Shelton, Michael Henry Sherman, Larry W. Welch

RESEARCH ASSISTANT PROFESSOR David M. Duhl

ADJUNCT ASSISTANT PROFESSOR William Nolan

ASSISTANT CLINICAL PROFESSORS Lori M. Adelson, Edward S. Arnold, Harvey Asher, Sarah B. Aylor, Ralph I. Barr, Jeffrey L. Binder, Henry B. Brackin, Jr., Susan H. Bryant, Michael L. Campbell, Thomas W. Campbell, Thomas F. Catron, William E. Coopwood, Bradley C. Diner, Palmer Edwards, Terri L. Fehrman, Dickey Catherine Fuchs, John J. Griffin, Philip F. Guinsburg, James R. Hart, Frederick T. Horton, Robert A. Jack, Robert C. Jamieson, Harold W. Jordan, William D. Kenner, John Koomen, Sandra R. Leavell, Linda S. Lundin, Aileen H. McAlister, James R. McFerrin, James B. McGehee, Keith G. Meador, William A. Mitchell, Margaret Norris, Paula S. Nunn, Steven R. Nyquist, J. Kirby Pate, Samuel J. L. Pieper, Jr., Gilbert Raulston, Michael C. Reed, Judith J. Regan, Jack O. Rice, S. Steve Snow, Frank W. Stevens, Jr., Brian R. Swenson, Cynthia Turner-Graham, Elisabeth Vorbusch, Gloria J. Waterhouse, Jane R. Weinberg, W. Scott West, Jackson B. White IV, Brad Williams, Melbourne A. Williams, Nat T. Winston, David A. Yarian

ASSOCIATE Lee H. Fleisher

INSTRUCTORS Gillian Blair, James C. Pryor, Samuel Riley Sells

CLINICAL INSTRUCTORS Lynn P. Barton, Earl Q. Parrott, William F. Sheridan, Jr., Hans Vorbusch

ASSISTANTS Jeanne Brownlee, Dan Ramage, Mary Fern Richie, Linda Wirth

LECTURER George Mathews

RESEARCH ASSOCIATES David D. Gillespie, Donald Hal Manier

✦ 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; health and

illness, doctors and patients; 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. Second year. This course introduces the student to the concept of psychopathology with emphasis on etiology, diagnosis, and treatment of the basic psychiatric disorders. Case presentations and videotapes are used to demonstrate the major disorders discussed in the lecture series. SPRING. Dr. Ebert, Dr. Margolin, and staff.

502. Psychiatry Clinical Rotation. A six-week rotation in which students are exposed to a variety of psychiatric disorders. Patient care, ward rounds, components, and seminars comprise the rotation. D. Bolian and staff.

Note: Psychiatry and Neurology are given in an eight-week block. During this unit, students will participate in lectures and conferences given by both departments, and they will be assigned for two weeks to a neurology clinical setting and for six weeks to one or more clinical settings in Psychiatry.

504. Human Behavior and the Practice of Medicine. First year. This course, presented as a block within Neurobiology, provides a framework for the consideration of psychosocial factors in the practice of medicine, including modern neurobiological concepts. SPRING. Dr. Ebert, Dr. LaBarberra, and staff.

Radiology and Radiological Sciences

CHAIRMAN A. Everette James, Jr.

VICE-CHAIRMAN C. Leon Partain

EMERITUS Joseph McK. Ivie

PROFESSORS Donald R. Eisert, Arthur C. Fleischer, Richard M. Heller, Jr., A. Everette James, Jr., Sandra Kirchner, C. Leon Partain, James A. Patton, Henry P. Pendergrass, Ronald R. Price, Charles E. Roos, Martin P. Sandler, Alan C. Winfield

RESEARCH PROFESSOR Mark Robert Willcott

ADJUNCT PROFESSORS Viktor Hegedus, F. David Rollo

CLINICAL PROFESSORS John H. Beveridge, W. Faxon Payne

ASSOCIATE PROFESSORS Frank E. Carroll, Jr., Michael L. Freeman, S. Julian Gibbs, Robert M. Kessler, Marvin W. Kronenberg, Ronald G. Manning, Murray J. Mazer, E. Paul Nance, Jr., Thomas A. Powers, Max Israel Shaff

ADJUNCT ASSOCIATE PROFESSOR Gerald Stanley Freedman

ASSOCIATE CLINICAL PROFESSORS Craig M. Coulam, Alan J. Kaufman, Robert Joseph Linn, Ronald E. Overfield

ASSISTANT PROFESSORS Tao-Seng Chen, Jeffrey L. Creasy, Robert C. Dawson III, Dominique Delbeke, Tomas De Paulis, J. Michael Fitzpatrick, M. Reza Habibiyan, Marta Hernanz-Schulman, Philippe Jeanty, Richard A. Margolin, Michael J. Murray, Andrew J. Padgug, David R. Pickens III, Bhaskara K. Rao, William R. Riddle, Gregory D. Smith, Sharon M. Stein, Richard G. Stiles, John R. Votaw, Anthony S. Wattleworth, William S. Witt, John A. Worrell

ADJUNCT ASSISTANT PROFESSORS R. Mitchell Bush, Alfonso Pujol, Jr.
ASSISTANT CLINICAL PROFESSORS Ronald B. Addlestone, Mark P. Freeman, Daniel C. Geddie, Alice A. Hinton, Adrian Lamballe, Jeffrey A. Landman, James R. Moyers, Glynis A. Sacks, Michael B. Seshul, John M. Tanner
ASSOCIATE Jeffrey A. Clanton
INSTRUCTOR Anne W. Winterland
CLINICAL INSTRUCTORS C. Richard Arendale, Jr., Richard A. Belden, Henry C. Howerton, Theodore C. Larson III, Patrick H. Moulton, Gary Thomas Podgorski, Daniel L. Starnes, Richard Stewart, David S. Taber
ASSISTANTS George E. Holburn, Christine H. Lorenz
RESEARCH ASSOCIATE Elaine Sierra-Rivera

✦ 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 computed 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 computed axial tomography, nuclear medicine, magnetic resonance imaging, digital subtraction angiography, 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 and small group sessions 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. FALL. Dr. Nance and staff.

Section of Surgical Sciences

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.

General Surgery

CHAIRMAN John L. Sawyers

DISTINGUISHED PROFESSOR John L. Sawyers

EMERITI Edmund W. Benz, W. Andrew Dale, Walter G. Gobbel, Jr., J. Lynwood Herrington, Jr., H. C. Meng, Douglas H. Riddeil, Louis Rosenfeld, H. William Scott, Jr.

PROFESSORS Najji Abumrad, R. Benton Adkins, Jr., Achilles A. Demetriou, Malcolm Oliver Perry, Robert E. Richie, Lester F. Williams, Jr.

CLINICAL PROFESSORS Benjamin F. Byrd, Jr., William H. Edwards, John L. Farringer, Jr., J. Kenneth Jacobs

ASSOCIATE PROFESSORS Paul S. Auerbach, Patrick W. Meacham, Loren D. Nelson, Philip J. Noel, Jr., Vernon H. Reynolds, Kenneth W. Sharp

ASSOCIATE CLINICAL PROFESSORS Herschel A. Graves, Jr., Jackson Harris, William D. Johnston, Fred T. Kimbrell, Jr., Malcolm R. Lewis, Joseph L. Mulherin, Jr., George Waterhouse

ASSISTANT PROFESSORS Ildefonso A. Alcantara, Donald McLain Blanton, Maria E. Frexes-Steed, Douglas A. Gentile, Richard E. Goldstein, H. Keith Johnson, Murray J. Mazer, Myron

L. Mills, John A. Morris, Robert Lee Norris, Jr., William A. Nylander, Jr., M. Kathleen Reilly, William O. Richards, Edmund J. Rutherford, Donna L. Seger, David H. Van Buren, John Kelly Wright, Barry E. Yarbrough

RESEARCH ASSISTANT PROFESSORS Albert D. Moscioni, Jacek Rozga

ASSISTANT CLINICAL PROFESSORS Jeanne F. Ballinger, Stanley Bernard, George E. Duncan, Parker Elrod, Steven J. Eskin, Carl N. Gessler, Robert W. Ikard, Douglas O. Olsen, Jefferson C. Pennington, David R. Pickens, Jr., Eddie J. Reddick, Robert N. Sadler, Harrison H. Shoulders, Jr.

ASSOCIATE Phillip E. Williams

INSTRUCTORS John G. Benitez, Paul F. Flakoll, Hisham Hourani, John Hannon Proctor, Seth W. Wright

RESEARCH INSTRUCTORS Kamal El-Tayeb, Kareem Jabbour, Jonathan J. Lipman

CLINICAL INSTRUCTORS Terry Allen, Roger A. Bonau, Robert C. Bone, Kenneth L. Classen, J. Michael Crane, J. Lucian Davis, Laura L. Dunbar, William H. Edwards, Jr., Benjamin Fisher, Roy G. Hammonds, Robert A. Hardin, John E. Keyser III, James P. Lester, William I. Lewis, Raymond S. Martin, M. Charles McMurray, Bonnie M. Miller, Joe M. Miller, Francis Michael Minch, Roy J. Renfro, Lansdon B. Robbins II, Richard B. Terry, John K. Wright

ASSISTANTS Anthony G. Disimone, Mary Fran Hazinski, Carolyn S. Watts

RESEARCH ASSOCIATE Kyung-Hwan Park

Dentistry

INTERIM CHAIRMAN H. David Hall

EMERITUS Fred H. Hall

PROFESSOR H. David Hall

ASSOCIATE PROFESSOR Ervin C. Belcher

ASSISTANT PROFESSORS S. Julian Gibbs, Bruce T. Greenwood, Richard D. Roth, Jack Alexander Tyson

ASSISTANT CLINICAL PROFESSORS Herbert Allen Crockett, Arthur Joel Gluck, Phillip E. Hutcheson, Robert C. Lineberger, James N. Smoot, Jr.

CLINICAL INSTRUCTORS George A. Adams, Jr., Franklin William Taylor

Neurosurgery

CHAIRMAN George S. Allen

EMERITUS William F. Meacham

PROFESSOR George S. Allen

CLINICAL PROFESSOR Cully A. Cobb, Jr.

ASSOCIATE CLINICAL PROFESSORS Michael E. Glasscock III, Ray W. Hester

ASSISTANT PROFESSORS Bennett Blumenkopf, Robert C. Dawson III, J. Michael Fitzpatrick, Robert Lee Galloway, Jr., Robert J. Maciunas, Noel B. Tulipan

ASSISTANT CLINICAL PROFESSORS Arthur G. Bond III, Everette I. Howell, Jr., Charles D. Scheibert

CLINICAL INSTRUCTORS Vaughan A. Allen, Verne E. Allen, Rex E. H. Arendall II, Arthur Cushman, Carl Richard Hampf, James W. Hays, Paul Raymond McCombs, Warren F. McPherson, Timothy P. Schoettle, Harold P. Smith
RESEARCH ASSOCIATE Venkat R. Mandava

Oral Surgery

CHAIRMAN H. David Hall
PROFESSOR H. David Hall
ASSOCIATE CLINICAL PROFESSOR Elmore Hill
ASSISTANT PROFESSORS Samuel Jay McKenna, James W. Nickerson, Jr.
ASSISTANT CLINICAL PROFESSORS Jeffrey B. Carter, Stanley C. Roddy, Jr., Anthony P. Urbaneck

Otolaryngology

CHAIRMAN Robert H. Ossoff
EMERITUS William G. Kennon, Jr.
PROFESSORS Fred H. Bess, Robert H. Ossoff
CLINICAL PROFESSORS Michael E. Glasscock III, C. Gary Jackson
ASSOCIATE PROFESSORS James A. Duncavage, Jay W. Hall III, R. Edward Stone, Jr.
VISITING ASSOCIATE PROFESSOR Yann-Chin Hwang
ASSOCIATE CLINICAL PROFESSOR Hiranya Gowda
ASSISTANT PROFESSORS James L. Nettekville, William Russell Ries, Mitchell Keith Schwa-ber, Jay A. Werkhaven, David L. Zealear
ASSISTANT CLINICAL PROFESSORS Clyde V. Alley, Jr., Jerrall P. Crook, William L. Downey, James C. Garlington, Perry F. Harris, Daniel R. Hightower, Thomas W. Holzen, Warren R. Patterson
INSTRUCTORS Jack A. Coleman, Jr., John U. Coniglio
CLINICAL INSTRUCTORS Sanjay Atmaram Bhansali, Ronald C. Cate, William G. Davis, Edwin Boyette Emerson, Michael J. Hart, William Thomas Moore, Saleem I. Naviwala, Robert C. Owen, John D. Witherspoon
ASSISTANT Jerri A. Tribble

Pediatric Surgery

CHAIRMAN Wallace W. Neblett III
EMERITUS George W. Holcomb, Jr.
ASSOCIATE PROFESSOR Wallace W. Neblett III
ASSISTANT PROFESSORS George W. Holcomb III, John B. Pietsch

Plastic Surgery

CHAIRMAN John B. Lynch
 PROFESSOR John B. Lynch
 CLINICAL PROFESSOR Greer Ricketson
 ASSOCIATE PROFESSORS Lillian B. Nanney, R. Bruce Shack
 ASSOCIATE CLINICAL PROFESSORS David G. Bowers, Jr., Reuben A. Bueno
 ASSISTANT PROFESSORS Ronald M. Barton, Kevin F. Hagan, Kevin J. Kelly
 ASSISTANT CLINICAL PROFESSORS Jack Fisher, James H. Fleming, Jr., Philip E. Fleming,
 Perry F. Harris, Charles W. MacMillan, James J. Madden, Jr., G. Patrick Maxwell, Thomas
 W. Orcutt
 CLINICAL INSTRUCTOR Takis Patikas

Thoracic and Cardiac Surgery

CHAIRMAN Harvey W. Bender, Jr.
 DISTINGUISHED PROFESSOR John L. Sawyers
 PROFESSORS Harvey W. Bender, Jr., John W. Hammon, Jr.
 CLINICAL PROFESSORS William H. Edwards, J. Kenneth Jacobs, William S. Stoney, Jr.
 ASSOCIATE PROFESSOR Walter H. Merrill
 ASSOCIATE CLINICAL PROFESSORS William C. Alford, Jr., Jackson Harris
 ASSISTANT PROFESSORS William H. Frist, James R. Stewart
 ASSISTANT CLINICAL PROFESSORS Phillip P. Brown, George Burrus, William T. Finch, David
 M. Glassford, Jr., Michael R. Petracek, Clarence S. Thomas, Jr.
 CLINICAL INSTRUCTOR Robert A. Hardin

Urology

CHAIRMAN W. Scott McDougal
 EMERITI Edward H. Barksdale, Charles E. Haines, Jr., Harry S. Shelley
 PROFESSOR W. Scott McDougal
 ASSOCIATE PROFESSORS Frederick Kirchner, Jr., William J. Stone, Paul E. Teschan
 ASSOCIATE CLINICAL PROFESSORS H. Victor Braren, William Crenshaw, Robert H. Ed-
 wards, Robert E. McClellan, Phillip P. Porch, Jr., John M. Tudor, Bruce I. Turner
 ASSISTANT PROFESSORS David E. Hill, Michael O. Koch, Alan C. Winfield
 ASSISTANT CLINICAL PROFESSORS Robert B. Barnett, John W. Brock III, Oscar Carter, Keith
 W. Hagan, Albert P. Isenhour, Thomas E. Nesbitt, Robert A. Sewell, J. Douglass Trapp,
 Claude H. Workman III
 CLINICAL INSTRUCTORS Raoul Sioco Concepcion, Charles W. Eckstein, Robert B. Faber,
 John R. Furman, L. Dean Knoll, David H. Morgan, Thomas E. Nesbitt, Jr., John J. Warner

Required Courses

502. Clinical Clerkship. For ten weeks each student in the third-year class is assigned to the surgical divisions of the Vanderbilt University Hospital, St. Thomas 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 concentrated rotations in two of the following services: neurosurgery, urology, ophthalmology, plastic, cardiac and thoracic surgery, orthopaedics, and anesthesiology. These rotations provide exposure to a variety of patients with problems in general surgery and in the special fields of surgery. Teaching rounds are held daily by members of the staff. Students go with their patients to the operating rooms where they are observers and assistants to the staff in surgery, the surgical specialties, and anesthesiology. Dr. Sharp and staff.

520. Ambulatory Clerkship. During a four-week unit each fourth-year student participates in a didactic program on issues related to care of patients in an ambulatory setting. The students also work with patients in one of three clinical settings: general medicine, general pediatrics, or emergency service. Dr. Hickson and staff.



Faculty



- RASUL ABDOLRASULNIA, Research Instructor in Medicine
B.S. (Shiraz); M.S. (Pahlavi); Ph.D. (Tennessee)
- VIRGINIA D. ABERNETHY, Professor of Psychiatry (Anthropology)
B.A. (Wellesley); A.M., Ph.D. (Harvard); M.B.A. (Vanderbilt)
- BASSEL W. ABOU-KHALIL, Assistant Professor of Neurology
B.S., M.D. (American University of Beirut)
- MARY L. ABRAM, Assistant Professor of Pathology
A.B. (Hollins); M.D. (Virginia)
- PHILLIP A. ABSTON, Assistant Professor of Anesthesiology
B.S., Ph.D. (Mississippi State); M.D. (Mississippi)
- NADA A. ABUMRAD, Assistant Professor of Molecular Physiology and Biophysics
B.S. (Lebanese); M.S. (American University of Beirut); Ph.D. (SUNY, Upstate Medical Center)
- NAJI ABUMRAD, Professor of Surgery; Paul W. Sanger Professor of Experimental Surgery; Associate Professor of Medicine; Professor of Molecular Physiology and Biophysics
M.D. (American University of Beirut)
- MAURICE M. ACREE, JR., Assistant Clinical Professor of Pathology
B.A. (Vanderbilt); M.D. (Tennessee)
- GEORGE A. ADAMS, JR., Clinical Instructor in Dentistry (Pedodontics)
D.D.S. (Indiana)
- ROBERT W. ADAMS, JR., Associate Clinical Professor of Psychiatry
M.D. (Vanderbilt)
- RONALD B. ADDLESTONE, Assistant Clinical Professor of Radiology and Radiological Sciences
B.S. (Charleston); M.D. (Emory)
- FESTUS O. ADEBONOJO, Adjunct Professor of Pediatrics
B.S., M.D. (Yale)
- LORI M. ADELSON, Assistant Clinical Professor of Psychiatry
B.S. (Michigan); M.D. (Wayne State)
- R. BENTON ADKINS, JR., Professor of Surgery; Professor of Cell Biology
B.S. (Austin Peay State); M.D. (Vanderbilt)
- R. TERRY ADKINS, Clinical Instructor in Obstetrics and Gynecology
A.B. (Tennessee); M.D. (Baylor)
- BJORN ÅKESSON, Visiting Associate Professor of Medicine
M.D. (Lund)
- ILDEFONSO A. ALCANTARA, Assistant Professor of Anesthesiology; Assistant Professor of Surgery
M.D. (Santo Tomas)
- ROBERT H. ALFORD, Clinical Professor of Medicine
B.A., M.D. (Vanderbilt)
- WILLIAM C. ALFORD, JR., Associate Clinical Professor of Thoracic and Cardiac Surgery
B.A., M.D. (Vanderbilt)
- CLAIRE J. ALLAN, Research Associate in Molecular Physiology and Biophysics
B.Sc. (Glasgow)
- GEORGE S. ALLEN, Professor of Neurosurgery and Chairman of the Department
B.A. (Wesleyan); M.D. (Washington University); Ph.D. (Minnesota)
- TERRY ALLEN, Clinical Instructor in Surgery
B.A. (Swarthmore); M.D. (Virginia)
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- ROGER M. DES PREZ, Professor of Medicine
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- SAMUEL J. DIMARI, Research Assistant Professor of Pathology
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- HENRY L. DOUGLASS, Associate Professor of Clinical Urology, Emeritus (Died 9 February 1990)
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- STEPHEN J. TAYLOR, Research Associate in Molecular Physiology and Biophysics
M.A. (Cambridge); Ph.D. (London)
- WILLIAM L. TAYLOR, Assistant Professor of Molecular Physiology and Biophysics
B.S., Ph.D. (Purdue)
- J. NICHOLAS TERHUNE, Clinical Instructor in Ophthalmology
B.A. (Murray State); M.D. (Vanderbilt)
- RICHARD B. TERRY, Clinical Instructor in Surgery
B.A. (University of the South); M.D. (Tennessee)
- PAUL E. TESCHAN, Professor of Medicine; Associate Professor of Urology; Associate Professor of Biomedical Engineering
B.S., M.B., M.D., M.S. (Minnesota)
- KYI T. THAM, Assistant Professor of Pathology
M.B., B.S. (Rangoon Medical College)
- PURUSHOTTAM B. THAPA, Research Instructor in Preventive Medicine
M.B., B.S. (Lucknow); M.P.H. (University of Washington)
- ANNE MARIE THARPE, Clinical Instructor in Hearing and Speech Sciences
B.S. (Arizona); M.S. (Vanderbilt)
- CLARENCE S. THOMAS, Clinical Professor of Medicine, Emeritus
A.B. (Howard College); M.D. (Johns Hopkins)
- CLARENCE S. THOMAS, JR., Assistant Clinical Professor of Thoracic and Cardiac Surgery
B.A., M.D. (Vanderbilt)
- DAVID D. THOMBS, Associate Clinical Professor of Pediatrics
B.A. (Amherst); M.D. (Vanderbilt)
- JOHN BROWN THOMISON, Associate Clinical Professor of Pathology
B.A., M.D. (Vanderbilt)
- JOHN G. THOMPSON, JR., Assistant Clinical Professor of Medicine
A.B. (Duke); M.D. (Emory)
- JULIA THOMPSON, Clinical Instructor in Pediatrics
B.S. (Tulsa); M.D. (Oklahoma, Tulsa)
- JULIETTE M. THOMPSON, Senior Associate in Pediatrics
B.S.N. (Tennessee, Nashville); M.S.N. (Vanderbilt); R.N.
- CHARLES B. THORNE, Associate Clinical Professor of Medicine
M.D. (Vanderbilt)
- CLYDE THORNSBERRY, Clinical Professor of Pathology
B.S., Ph.D. (Kentucky)
- CLARK TIBBETTS, Professor of Microbiology; Vice-Chair of the Graduate Faculty Council
B.A. (Amherst); Ph.D. (California Institute of Technology)
- STEPHEN T. TICARIC, Clinical Instructor in Medicine
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- K. SHANNON TILLEY, Clinical Instructor in Ophthalmology
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- SHEILA DOWNS TIMMONS, Research Assistant Professor of Microbiology and Immunology
B.S. (Tennessee)
- EDMOND TIPTON, Assistant Clinical Professor of Medicine
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- C. GORDON TODDERUD, Research Associate in Biochemistry
B.A. (Delaware); Ph.D. (West Virginia)
- E. NEIGE TODHUNTER, Visiting Professor of Biochemistry (Nutrition)
B.Sc., M.Sc. (Otago); Ph.D. (Columbia)
- ROBERT H. TOSH, Associate Clinical Professor of Obstetrics and Gynecology
M.D. (Tennessee)
- OSCAR TOUSTER, Professor of Molecular Biology and Chair of the Department; Professor of Biochemistry
B.S. (City University of New York); M.A. (Oberlin); Ph.D. (Illinois)
- ALEXANDER S. TOWNES, Assistant Dean for Veterans Administration Affairs; Professor of Medicine
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- ELIZABETH GRIMES TRIGGS, Clinical Instructor in Pediatrics
B.S. (North Carolina); M.D. (Mississippi)

- NANETTE H. TROIANO, Assistant in Obstetrics and Gynecology; Adjunct Instructor in Nursing
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- DAULAT RAM P. TULSIANI, Associate Professor of Obstetrics and Gynecology; Associate Professor of Cell Biology
B.S., M.S., Ph.D. (Allahabad)
- BRUCE I. TURNER, Associate Clinical Professor of Urology
B.S., M.D. (Tulane)
- DOROTHY JEAN TURNER, Assistant Clinical Professor of Pediatrics; Assistant Clinical Professor of Preventive Medicine
B.A., M.A., M.D. (Vanderbilt)
- CYNTHIA TURNER-GRAHAM, Assistant Clinical Professor of Psychiatry
B.A. (Fisk); M.D. (Kansas)
- JACK ALEXANDER TYSON, Assistant Professor of Dentistry
D.D.S. (Tennessee)
- JANET ULM, Assistant in Pediatrics
B.A. (Carson-Newman); M.S.S.W. (Tennessee)
- ANTHONY P. URBANEK, Assistant Clinical Professor of Oral Surgery
B.S. (John Carroll); D.D.S., M.S. (Indiana); M.D. (Vanderbilt)
- NORMAN B. URMY, Executive Director of Vanderbilt University Hospital and The Vanderbilt Clinic; Associate Professor of Medical Administration
B.A. (Williams); M.B.A. (Chicago)
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- MATTI VIERULA, Research Associate in Obstetrics and Gynecology
Iis. (Turku); F.T. (Kuopio)
- C. GORDON VIRE, Assistant Clinical Professor of Medicine
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B.S. (South Carolina); Ph.D. (Virginia Commonwealth)
- ELISABETH VORBUSCH, Assistant Clinical Professor of Psychiatry
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- HANS VORBUSCH, Clinical Instructor in Psychiatry
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- WILLIAM BROWN WADLINGTON, Clinical Professor of Pediatrics
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- JOSEPH W. WAHL, Assistant Clinical Professor of Ophthalmology
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- ROBERT W. WAHL, Assistant Clinical Professor of Pathology
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- ETHEL WALKER, Clinical Professor of Pediatrics
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- LYNN S. WALKER, Assistant Professor of Pediatrics; Assistant Professor of Psychology, Peabody College; Investigator, John F. Kennedy Center
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- CHARLES H. WALLAS, Associate Professor of Pathology; Director of Vanderbilt Pathology Laboratory Services; Director of the Program for Blood Bank Specialists, VUH; Director of the Program in Medical Technology, VUH
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- RUSSELL D. WARD, Assistant Clinical Professor of Medicine

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- GEETA WASUDEW, Assistant Professor of Anesthesiology
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- JACK N. WELLS, Professor of Pharmacology
B.S. (Park); M.S., Ph.D. (Michigan)
- DENNIS K. WENTZ, Adjunct Associate Professor of Medical Administration
B.A. (North Central); M.D. (Chicago)
- JAY A. WERKHAVEN, Assistant Professor of Otolaryngology
B.A. (Wittenberg); M.D. (Wake Forest)
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- RALPH E. WESLEY, Clinical Professor of Ophthalmology
B.A. (Kentucky); M.D. (Vanderbilt)
- W. SCOTT WEST, Assistant Clinical Professor of Psychiatry
A.B., M.D. (Tennessee)
- NEAL T. WETHERALL, Assistant Professor of Pathology
B.A., M.S. (Adelphi); Ph.D. (Vanderbilt)
- ARTHUR P. WHEELER, Assistant Professor of Medicine
B.A., M.D. (Maryland)
- ARVILLE V. WHEELER, Associate Clinical Professor of Pediatrics
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- PAUL W. WHEELER, Clinical Instructor in Medicine
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- WILLIAM O. WHETSELL, JR., Professor of Pathology; Professor of Psychiatry; Professor of Cell Biology; Investigator, John F. Kennedy Center
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- BRUCE DAVID WHITE, Adjunct Assistant Professor of Medicine (Medical Ethics)
B.S., J.D. (Tennessee); D.O. (North Texas State)
- JACKSON B. WHITE IV, Assistant Clinical Professor of Psychiatry
B.A., M.D. (Vanderbilt)
- JOAN W. WHITE, Clinical Instructor in Pediatrics
B.S. (Virginia Polytechnic); M.D. (Medical College of Virginia)
- RICHARD R. WHITESELL, Research Instructor in Molecular Physiology and Biophysics
B.A. (Indiana); Ph.D. (Vanderbilt)
- THOMAS C. WHITWORTH, Assistant Clinical Professor of Pediatrics
B.A. (David Lipscomb); M.D. (Vanderbilt)
- BERNARD A. WIGGINS, Clinical Instructor in Pediatrics
B.A. (Fisk); M.D. (Virginia)

- RONALD G. WILEY, Associate Professor of Neurology; Associate Professor of Pharmacology
B.S., M.D., Ph.D. (Northwestern)
- ERLE E. WILKINSON, Assistant Clinical Professor of Pediatrics
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- GRANT R. WILKINSON, Professor of Pharmacology
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- MELISSA A. WILL, Clinical Instructor in Pediatrics
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- MARK ROBERT WILLCOTT, Research Professor of Radiology and Radiological Sciences; Professor of Chemistry
B.A. (Rice); M.S., Ph.D. (Yale)
- BRAD WILLIAMS, Psychiatrist, Student Health Service; Assistant Clinical Professor of Psychiatry
B.A., M.D. (Mississippi)
- LAVERGNE WILLIAMS, Assistant Professor of Psychiatric Social Work, Emerita
B.A. (Peabody); M.S.S.W. (Tennessee)
- LESTER F. WILLIAMS, JR., Professor of Surgery
A.B. (Brown); M.D. (Boston)
- MELBOURNE A. WILLIAMS, Assistant Clinical Professor of Psychiatry
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- PHILLIP E. WILLIAMS, Associate in Surgery
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- W. CARTER WILLIAMS, JR., Assistant Clinical Professor of Medicine
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A.B., M.S. (West Virginia); Ph.D. (George Washington)
- DAVID C. WILSON, Assistant Professor of Medicine
B.A. (Wake Forest); M.D. (Medical College of Virginia)
- JAMES P. WILSON, Assistant Professor of Medicine
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- RONALD BRUCE WILSON, Adjunct Assistant Professor of Pathology
B.S., D.V.M. (Michigan State)
- ALAN C. WINFIELD, Professor of Radiology and Radiological Sciences; 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. (Johann Wolfgang Goethe Universität Frankfurt)
- ANNE W. WINTERLAND, Instructor in Radiology and Radiological Sciences (Radiation Oncology)
B.S. (Ohio State); M.S., M.D. (Wayne State)
- LINDA WIRTH, Assistant in Psychiatry
B.A. (Iowa); M.S.S.W. (Tennessee)
- FRANK G. WITHERSPOON, Assistant Clinical Professor of Medicine (Dermatology)
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- JOHN D. WITHERSPOON, Clinical Instructor in Otolaryngology
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- WILLIAM S. WITT, Assistant Professor of Radiology and Radiological Sciences
B.S. (Florida); M.D. (Meharry Medical)
- NORMAN E. WITTHAUER, Clinical Instructor in Obstetrics and Gynecology
B.S. (Southern Mississippi); M.D. (Tulane)
- SUSAN WODICKA, Assistant Professor of Medicine
B.S., M.D. (Vanderbilt)
- BRUCE L. WOLF, Adjunct Instructor in Medicine
B.A. (Amherst); M.D. (Louisville)
- LAWRENCE K. WOLFE, Associate Clinical Professor of Medicine
B.A., M.D. (Vanderbilt)
- STEVEN N. WOLFF, Associate Professor of Medicine
B.A. (City University of New York, Queens); M.D. (Illinois)
- MARK LEE WOLRAICH, Professor of Pediatrics
B.A. (SUNY, Binghamton); M.D. (SUNY, Upstate Medical Center)
- ALASTAIR J. J. WOOD, Professor of Medicine; Professor of Pharmacology
M.B., Ch.B. (Saint Andrews [Scotland])
- G. WALLACE WOOD, Associate Clinical Professor of Pediatrics
B.A., M.D. (Vanderbilt)
- MARGARET WOOD, Professor of Anesthesiology; Associate Professor of Pharmacology
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- MAYME L. BLANKENSHIP WOOD, Research Instructor in Microbiology
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- STEPHEN C. WOODWARD, Professor of Pathology
M.D. (Emory)
- CLAUDE H. WORKMAN III, Assistant Clinical Professor of Urology
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- ROBERT J. WORKMAN, Associate Professor of Medicine; Associate Professor of Pathology
A.B. (Princeton); M.D. (Harvard)
- JOHN A. WORRELL, Assistant Professor of Radiology and Radiological Sciences
B.S. (McNeese State); M.D. (Vanderbilt)
- TAYLOR WRAY, Assistant Clinical Professor of Medicine
B.A. (University of the South); M.D. (Johns Hopkins)
- CHRISTOPHER V. E. WRIGHT, Assistant Professor of Cell Biology
B.Sc. (Warwick); D.Phil. (Oxford)
- ELLEN P. WRIGHT, Assistant Clinical Professor of Pathology
B.A., M.D. (Vanderbilt)
- GEORGE DEWEY WRIGHT, Adjunct Instructor in Medicine
B.A., M.D. (Vanderbilt)
- JOHN E. WRIGHT, Assistant Clinical Professor of Pathology
M.D. (Baylor); B.S. (Houston)

- JOHN K. WRIGHT, Clinical Instructor in Surgery
B.S. (Tennessee Technological); M.D. (Tennessee)
- JOHN KELLY WRIGHT, Assistant Professor of Surgery
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- PETER F. WRIGHT, Professor of Pediatrics and Director of the Division of Infectious Diseases; Assistant Professor of Microbiology
B.A. (Dartmouth); M.D. (Harvard)
- SETH W. WRIGHT, Instructor in Surgery; Instructor in Medicine
M.D. (Michigan)
- JOHN LANIER WYATT, Assistant Clinical Professor of Medicine (Died 2 November 1989)
B.A. (Vanderbilt); M.D. (Tennessee)
- KENNETH N. WYATT, Clinical Instructor in Pediatrics
B.S., M.D. (Michigan State)
- HIDEYUKI YAMAMOTO, Research Associate in Molecular Physiology and Biophysics
M.D., Ph.D. (Kumamoto)
- YOSHIAKI YAMANO, Research Associate in Biochemistry
B.Sc., M.Sc., Ph.D. (Kyoto)
- BARRY E. YARBROUGH, Assistant Professor of Surgery; Assistant Professor of Medicine
B.A. (Vanderbilt); M.D. (Georgetown)
- AIDA YARED, Assistant Professor of Pediatrics
B.S., M.D. (American University of Beirut)
- DAVID A. YARIAN, Assistant Clinical Professor of Psychiatry; Adjunct Associate Professor of Psychology, Peabody College
B.A. (Eastern New Mexico); A.M., Ph.D. (Michigan)
- TOSHIMASA YOSHIOKA, Research Assistant Professor of Pediatrics
B.S., M.D. (Kitasato)
- WILLIAM F. YOST, Assistant Clinical Professor of Anesthesiology
M.D. (Tennessee)
- CHUL-HO YUN, Research Associate in Biochemistry
B.S. (Yonsei); M.S., Ph.D. (Korean Advanced Institute of Science and Technology)
- RICHARD M. ZANER, Professor of Medicine (Philosophy); Ann Geddes Stahlman Professor of Medical Ethics; Professor of Philosophy; Professor of Medical Ethics, Divinity School; Director of the Center for Clinical and Research Ethics; Investigator, John F. Kennedy Center
B.S. (Houston); M.A., Ph.D. (New School for Social Research)
- DAVID L. ZELEAR, Assistant Professor of Otolaryngology
B.S. (California, Davis); Ph.D. (California, San Francisco)
- THOMAS B. ZERFOSS, JR., Assistant Clinical Professor of Pediatrics
B.A., M.D. (Vanderbilt)
- JIYING ZHOU, Research Associate in Pathology
D.Pharm. (Shanghai Medical University)
- DAVID M. ZIENTEK, Instructor in Medicine
B.A., M.D. (Johns Hopkins)
- CARL W. ZIMMERMAN, Clinical Instructor in Obstetrics and Gynecology
B.S. (Peabody); M.D. (Tennessee)
- LASZLO ZSAK, Research Associate in Microbiology
D.V.M. (University of Veterinary Science [Budapest])

Register of Students 1989/90

First Year Class

- FELICE CARA ADLER (B.S., Duke) Dunwoody, Ga.
RASHEED IRSHAD AHMAD (B.S., Tennessee) Johnson City, Tenn.
TED LOUIS ANDERSON (B.S., Southern Mississippi) Norfolk, Va.
ANGELINA GLADYS AUSBAN (B.A., Mills) Oakland, Calif.
- STEPHEN WILSON BENT (B.S., Duke) Short Hills, N.J.
MASON FOSTER BIAS (B.A., B.S., William and Mary) St. Louis, Mo.
JEFFREY FIELD BLEAKLEY (B.A., Colgate) Geneva, N.Y.
ELIZABETH DEE BOETTCHER (B.A., Bowdoin) Arden, N.C.
THOMAS JAMES BOEVE (B.A., Calvin) Holland, Mich.
ALEXANDER DAVID BOROWSKY (B.A., Pomona) Northridge, Calif.
BARBARA NICOLE BOYNTON (B.A., Duke) Baltimore, Md.
KIERAN ROBERT BRANCH (B.S., Tulane) Nashville, Tenn.
DAVID LAWRENCE BROWN (B.A., Wittenberg) Cape Coral, Fla.
- SHANE MEREDITH CLINE (B.S., Purdue) Acton, Mass.
ELIZABETH WALKER COTTON (B.S., Vanderbilt) Nashville, Tenn.
JOHN JAY CRAWFORD (B.S., U. S. Military Academy) Florence, N.Y.
KATHLEEN ANN CREWS (B.S., Vanderbilt) Asheville, N.C.
DONNA JANE CROWE (B.S., Birmingham-Southern) Decatur, Ala.
TRACE WILLIAM CURRY (B.S., Cincinnati) Alexandria, Ky.
- ANTHONY DAVID DAKE (B.S., Nebraska, Lincoln) Orleans, Nebr.
DEVON LYNN DAVIS (B.A., Dartmouth) Glastonbury, Conn.
ANNICK MARLENE DEMARQUE (B.A., Yale) North Haven, Conn.
MICHAEL COURTNEY DUMARS (B.S., California, Berkeley) Napa, Calif.
JOEL DWORKIN (B.S., M.S., McGill) Montreal, Canada
- DAVID SCOTT FORTUNE (B.A., Emory) Knoxville, Tenn.
CHERIE DEON FOSTER (B.A., Wellesley) Lafayette, Ind.
MARK DOUGLAS FOX (B.A., Georgetown) Tulsa, Okla.
DAVID RICHARD FREEDY (B.S., Notre Dame) Pittsburgh, Pa.
- ERIC WILLIAM GAGE (B.S., Calvin) Wethersfield, Conn.
TIMOTHY JOHN GENSLER (B.S., Vanderbilt) Pittsburgh, Pa.
MARK CHRISTIAN GRIEB (B.S., U.S. Military Academy) Brentwood, Tenn.
THOMAS SLOANE GUY IV (B.S., Wake Forest) Elkin, N.C.
- MELVYN AUGUSTUS HARRINGTON, JR. (B.S., Johns Hopkins) St. Louis, Mo.
BARBARA LYNNE HIPPI (B.S., Rochester) Delmar, N.Y.
AMY JOYCE HOURIGAN (B.S., Pennsylvania) Elbridge, N.Y.
WILLIAM DAVID HOVIS (B.S., Duke) Knoxville, Tenn.
DAVID RANDALL HUDSON (B.S., Mississippi) Nashville, Tenn.
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- HANI ZAKI IBRAHIM (B.S., Northwestern) Safat, Kuwait
DAVID INGRAM, JR. (B.A., Brown) Chattanooga, Tenn.

ELIZABETH ANN JACKSON (B.A., Cornell) Lohman, Mo.

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DAWN MARIE MACAULEY (B.A., Williams) Westerly, R.I.

BARBARA JEANNE MANNEL (B.A., Virginia) Augusta, Ga.

ERIC STRATMAN MANSKE (B.S., Clemson) Simpsonville, S.C.

RICHARD REID MAXA (B.S., Notre Dame) Cheraw, S.C.

THOMAS SUDDARDS MCCALL (B.S., Stanford) Palo Alto, Calif.

TERRI LYNN MCCART (B.A., Princeton) Atlanta, Ga.

MARY CATHERINE MC ELLISTREM (B.S., Dayton) Lexington, Ky.

EDWIN CLYDE MCGEE, JR. (B.A., Washington and Lee) Florence, S.C.

JAMES EDWARD MCGRORY (B.S., Alabama) Tarrant, Tex.

LAURA ANN MCMILLAN (B.S., San Diego State) El Cajon, Calif.

ROBERT ALAN MERICLE (B.A., Oklahoma) Norman, Okla.

ANDREW GIBBS MOORE (B.A., Brown) Rochester, Minn.

WYNNE ELLEN MORRISON (B.A., Vanderbilt) Rossville, Tenn.

ALVIN LESTER MOYER (B.A., Colgate) Boyertown, Pa.

STEVEN ROLAND NORRIS (B.S., Duke) Cocoa Beach, Fla.

JAMES ALLEN O'LEARY (B.A., Notre Dame) Columbia, S.C.

ROBERT DOUGLAS OLIVER (B.S., Centre) Trenton, Ky.

JAMES WRIGHT O'MARA, JR. (B.A., Southern Methodist) Jackson, Miss.

LAURA MARIE PETERSON (B.S., California, San Diego) Sacramento, Calif.

MICHAEL RICHARD ROBICHAUX, JR. (B.S., Nicholls State) Thibodaux, La.

ANDREW RUFFNER ROBINSON (B.A., Virginia) Signal Mtn., Tenn.

GEORGE GAYLORD ROBINSON II (B.A., Kansas) Westwood Hills, Kans.

GREGORY SCOTT SCHLESSINGER (B.A., California, San Diego) Los Angeles, Calif.

MARIE CHRISTINE SCHMITT (B.S., Duke) Bethesda, Md.

JOHN ORLAND SCHORGE (B.S., Michigan) Frankenmuth, Mich.

DOUGLAS JAMES SCOTHORN (B.A., Vanderbilt) Knoxville, Tenn.

STEPHEN BRIAN SIEGEL (B.A., Duke) Atlanta, Ga.

CHRISTOPHER PAUL SMELTZER (B.A., Baylor) Tallahassee, Fla.

WALTER SMITHWICK IV (B.E., Vanderbilt) Jacksonville, Fla.

THORNTON STANLEY, JR. (B.E., Vanderbilt) Huntsville, Ala.

ROBERT WESLEY STEELE (B.A., North Carolina) Little Rock, Ark.

SARAH MARGARET STELZNER (B.A., Brown) Albuquerque, N.M.

BRADLEY JON STONEKING (B.A., South Florida) Seminole, Fla.

WILLIAM GORDON TANNER, JR. (B.A., Davidson) Duluth, Ga.

ERIC EDWARD TRENKMANN (B.A., M.S., Columbia) Norwood, N.J.

JOHN ANANDA VAN AALST (B.A., Dartmouth) West Lebanon, N.H.
JAY ARTHUR VAN GERPEN (B.A., Vanderbilt) Atlanta, Ga.
DAVID WAYNE VAN KOOTEN (B.A., Calvin) Denver, Colo.
PATRICK SEWELL VIDAVER (B.A., Virginia) Virginia Beach, Va.

DOMINIQUE SUZETTE WALTON (B.S., Birmingham-Southern) Huntsville, Ala.
ANDREW GOCKE WESTBROOK (B.A., Harvard) North Oaks, Minn.
IDA MICHELE WILLIAMS (B.S., Vanderbilt) Columbia, Tenn.
ANGELA K. WILSON (B.A., Hendrix) Blytheville, Ark.
EARL MILLER BRENDAN WYATT (B.S., Centre) Owingsville, Ky.

HODON KENDLE YATES (B.S., Freed-Hardeman) Beech Grove, Ind.

ERIC NEIL ZACHARIAS (B.S., Mississippi State) Starkville, Miss.

Second Year Class

LAUREN BROOKE ADAMS (B.S., Davidson) Kingsport, Tenn.
WILLIAM ARTHUR ALTEMEIER IV (B.A., Vanderbilt) Nashville, Tenn.
STACEY MARIE ANDERSON (B.S., Vanderbilt) Erie, Pa.
EDWARD RIKER ARROWSMITH (B.A., Williams) Bethesda, Md.
ANDREW MARK BARNSTEIN (B.A., Johns Hopkins) Owings Mills, Md.
PETER FRANCIS BERGLAR (B.S., Missouri, Rolla) St. Louis, Mo.
HAROLD PURYEAR BLANKS III (B.S., Vanderbilt) Huntsville, Ala.
DAVID GERARD BOLAND (B.S., Pennsylvania State) Conyngham, Pa.
FRED KIRK BOWLES (B.A., Kenyon) Sterling Hts. Mich.,
LINDA DIANE BRADY (B.A., Vanderbilt) Memphis, Tenn.
JOHN SCOTT BRODERICK (B.S., Furman) Greenville, S.C.
GRADY LEE BRYANT (B.S., Baylor) Goodlettsville, Tenn.
SAMUEL BUNDZ (B.S., Perdue) Lincoln Park, N.J.
JOHN EUGENE BURNEY III (B.S., Georgia) Dunwoody, Ga.
BRIAN DEREK BUZZEO (B.S., Oglethorpe) Valdosta, Ga.
MICHELLE GERÉ CAMPBELL (B.S., Baylor) Natchez, Miss.
KENNETH JOSEPH CARPENTER (M.S., Millsaps) Baton Rouge, La.
SAM SUNGSOO CHANG (B.A., Princeton) Nashville, Tenn.
CHRISTIAN PAUL CHRISTENSEN (B.A., Hamilton) Oneonta, N.Y.
STEPHEN JOSEPH CINA (B.A., Johns Hopkins) Oviedo, Fla.
JULIE ANN CIRILLO (B.A., Massachusetts, Amherst) Worcester, Mass.
DONNA YVETTE CLARK (B.A., Harvard) Brooklyn, N.Y.
SAMUEL JAMES CLARK (B.A., Hendrix) Mountain Home, Ark.
CHARLES GARY COBB (B.S., Tufts) Ponte Vedra Beach, Fla.
ANTHONY FLOYD COLLINS (B.S., University of the South) Morristown, Tenn.
MARK ALLAN CONDON (B.A., Vanderbilt) Winter Haven, Fla.
ELAINE MARJORIE CONRADI (B.S., South Carolina) Mt. Pleasant, S.C.
FRANK ANTHONY CORNELLA (B.S., California, Irvine; M.S., D.D.S., California, Los Angeles)
Huntington Beach, Calif.
JOHN WILLIAM COURSEY (B.S., U.S. Military Academy) Nashville, Tenn.
SARA KATHARINE DANN (B.A., Dartmouth) Coral Gables, Fla.
DAVEY RONALD DEAL, JR. (B.A., Hendrix) Macon, Ga.

PAUL MICHAEL DIMOND (B.S., Creighton) Hilton Head Island, S.C.
PHILIP ALAN DINAUER (B.A., Johns Hopkins) San Diego, Calif.

THOMAS JAMES ELLIS (B.S., Stanford) Bend, Oreg.
CHARLES WHITLEY EMERSON (B.A., Vanderbilt) Brandon, Miss.

ANN LOUISE FAILINGER (B.H., Valparaiso; M.H., Pennsylvania) Nashville, Tenn.

SANJAY KUMAR GANDHI (B.A., Emory) Dunwoody, Ga.
JESSICA SARAH GERMOND (B.S., Duke) Bethesda, Md.
SCOTT ROBERT GIBBS (B.A., Vanderbilt) West Pittston, Pa.
LINDA JEAN GLATTE (B.S., New Hampshire) Rocky River, Ohio
THOMAS BRENT GRAHAM (B.S., Rhodes) Nashville, Tenn.
DAVID GRIFFIN (B.S., Utah) San Diego, Calif.

MICHAEL TERRANCE HAVIG (B.A., Princeton) Naples, Fla.
WALLY HOSN (B.A., Pennsylvania) San Diego, Calif.
WILLIAM CURTIS HOWE (B.S., M.S., Stanford) Knoxville, Tenn.
GEORGE BAKER HUBBARD III (B.S., Vanderbilt) Columbus, Ga.
MARC WILSON HUNGERFORD (B.S., Rochester) Cockeysville, Md.
VERNON SEVIER HURST (B.A., Birmingham Southern) Decatur, Ala.
JAMES ERNEST HURTIG (B.S., Kansas State) Erie, Kan.

ERIK JAMES KILGORE (B.A., Johns Hopkins) Winchester, Ore.
TIMOTHY COOPER KING (B.A., Washington) Tupelo, Miss.
LAWRENCE AARON KLINSKY (B.S., Illinois) Chicago, Ill.
KAREN MARIE KNOTH (B.S., Pittsburg) Pittsburgh, Pa.

MICHAEL DAVID LADD (B.S., Duke) Knoxville, Tenn.
LYNN NOEL LAMEIER (B.A., Tennessee) Brentwood, Tenn.
JERRY GREGORY LARRABEE (B.A., Williams) Waterbury, Vt.
JIM WAYNE LATIMER (B.S., Georgia Institute of Technology) McDonough, Ga.
SERENA WINGLIN LAU (B.S., East Tennessee State) Knoxville, Tenn.
MELINDA JANE LENGEL (B.A., Duke) Honesdale, Penn.
KENNETH VINCENT LEONE (B.S., Duke) Westwood, N.J.
JULIET MARIE LIPOSKY (B.S., Vanderbilt) Morristown, Tenn.
MARK BROOKS LOGAN (B.S., Murray State) Henderson, Ky.
DYAN ELIS LOURIA (B.S., Arizona) Tuscon, Ariz.
GEORGE BRANDON LYNCH (B.A., Dartmouth) Pulaski, Tenn.

LEE ALLEN MADELINE (B.S., Michigan) Ann Arbor, Mich.
LEE MANDL (B.S., South Dakota) Colton, S.D.
AHAD MAHOOTCHI (B.S., Rhodes) Memphis, Tenn.
LINDA MARIE MCALLISTER (B.A., Carleton) Chicago, Ill.
PHILIP MICHAEL MCGUIRE (B.S., Notre Dame) Mt. Prospect, Ill.
RUSSELL LOWELL MCLAUGHLIN (B.S., Purdue) Cape Girardeau, Mo.
LAURA LEIGH MEYERS (B.A., Washington) Edwardsville, Ill.
CHARLES FISHER MORGAN (B.S., Vanderbilt) Augusta, Ga.
SCOTT ALAN MURKIN (B.A., Illinois Wesleyan) Ramsey, Ill.

ALLEGRA PATTEN (B.A., Vassar) Seabrook, Tex.
DAVID POON (B.A., Berkley) Nashville, Tenn.

WILLIAM MARTIN REED (B.A., Williams) Shawnee Mission, Kan.

- MATTHEW CORNELIUS RHEINBOLDT (B.S., Pittsburg) Pittsburg, Penn.
ALBERT LYNN RIDGEWAY (B.A., Birmingham Southern) Decatur, Ala.
DOUGLAS JAMES RIETH (B.S., Northwestern) Aitom, Minn.
STEVEN ERIC ROSER (B.A., Pacific Luthern) Walla Walla, Wash.
FRANK HAL SCOTT (B.A., Tennessee) Greenville, Tenn.
NATHAN ANDREW SHAPIRA (B.S., Emory) Atlanta, Ga.
BARTON EUGENE SMITH (B.S., Warner Pacific) Beaverton, Ore.
CHRISTINE NAOMI SUYDAM (B.S., Southern California) San Francisco, Calif.
PAUL MATHEW SWANSON (B.A., Johns Hopkins) Cranford, N.J.
ELIZABETH CHACE THOMAS (B.S., Louisiana State) Baton Rouge, La.
PAUL KEVIN TRAUTNER (B.S., Notre Dame) Cheyenne, Wyo.
JOHN JAY WARNER (B.S., Abilene Christian) Ransom Canyon, Tex.
DEREK SCOTT WATSON (B.S., Miami) Clearwater, Fla.
LAURA FELKER WEBB (B.S., Davidson) Auburn, Ala.
LOREN WEIL (B.A., Johns Hopkins) New York City, N.Y.
MELL BURRESS WELBORN III (B.S., Duke) Evansville, Ind.
TODD RANDALL WILCOX (B.S., Duke) Littleton, Col.
WALTER EDWARD WOJCICKI (B.S., M.H., Virginia) Charlottesville, Vir.
LOUIS JOSEPH WOJCIK (B.A., Fordham) Bronxville, N.Y.
BRADLEY WYATT WORD (B.S., Pittsburg State) Pittsburg, Kan.
MARGARET BUSHNELL WRIGHT (B.A., California, Davis; M.P.H., Michigan) Los Angeles, Calif.
CHERYL LEE YOUNG (B.S.E., Duke) Ft. Myers, Fla.

Third Year Class

- DANIEL JOSEPH ABRAMS (B.A., Chicago) College Park, Md.
WILLIAM PETER ADAMS, JR. (B.A., Princeton) Atlanta, Ga.
PARIS ARISTEDES ARIANAS (B.A., Adelphi) Hempstead, N.Y.
PETER JAMES ARMSTRONG (B.S., United States Military Academy) Springfield, Va.
KENNETH STEWART BABE, JR. (B.S., Pennsylvania State) State College, Pa.
HOLLY CARLSON BELT (B.S., Birmingham Southern) Birmingham, Ala.
DEBORAH DEAN BEYER (B.S., B.A., Pepperdine) Canoga Park, Calif.
MOLLY ANN BOYCE (B.S., Oregon State) Grants Pass, Oreg.
JON MARC BRANDT (B.S., Purdue) Fort Wayne, Ind.
MICHAEL ALAN BURKE (B.A., Wittenberg) Columbus, Ohio
STEPHEN BENJAMIN CANTRELL (B.S., David Lipscomb; D.D.S., Emory) Huntsville, Ala.
ROGER WILLIAM COOMER, JR. (B.A., William and Mary) Simsbury, Conn.
WILLIAM OWEN COOPER (B.A., Transylvania) Lexington, Ky.
JULIE LYNN COX (B.S., Stanford) Nashville, Tenn.
BRIAN PHILIP DANIEL (B.A., Carson-Newman) Glasgow, Ky.
CHARLES MOORE DAVIS (B.S., Yale) Drexel, Penn.
THOMAS ELKINS DAY (B.A., Hendrix) Pine Bluff, Ark.
DAVID ALAN DENEKA (B.A., Mississippi) Millington, Tenn.
JEFFREY TODD DENTON (B.A., Maryville) Lilburn, Ga.
JEROME DEVENTE (B.A., Oberlin) Marietta, Ga.

FREDERICK THANE DEWEESE (B.A., Tex. Christian; B.S., Washington University) Ladue, Mo.

JONATHAN THOMAS FANBURG (B.A., Bowdoin) Lexington, Mass.

JEFF ERNEST FLICKINGER (B.S., Maryville) Maryville, Tenn.

LAURA DAWN FORESTER (B.A., Virginia) Springfield, Va.

MEREDITH GAITHER GARRETT (B.A., Wesleyan) Griffin, Ga.

STEPHANIE DIANE GARTNER (B.S., Southwestern) College Station, Tex.

STEVEN JON GEDDE (B.A., Illinois Wesleyan) McHenry, Ill.

MICHAEL ZANE GILCREASE (B.A., Yale) Tulsa, Okla.

KATRINA ANN GWINN (B.A., Wellesley) Louisville, Ky.

DIRK HAMP (B.S., George Mason) Mardua, Cameroon

ERIC DAVID HARDING (B.A., Illinois Wesleyan) Pontiac, Ill.

DAVID SHAWN HARVEY (B.S., Washington and Lee) Georgetown, S.C.

CAROLINE RUTH HEISE (B.S., Georgetown) Fort Pierce, Fla.

DAVID CHARLES HEUSINKVELD (B.A., Arizona) Fort Smith, Ark.

DANIEL LAWRENCE HIPPI (B.S., University of Washington) Redmond, Wash.

ELIZABETH MATILDA JONES (B.S., Georgetown) Saint Louis, Mo.

ROBERT STEVEN KAHN (B.A., Princeton) Metuchen, N.J.

MICHAEL DAVID KYZER (B.A., Hendrix) Mabelvale, Ark.

GILBERT RUSSELL LADD IV (B.A., Washington and Lee) Mobile, Ala.

TODD DUANE LARSON (B.A., Stanford) Everett, Wash.

WAI LAU (B.S., Southern California) Hong Kong

ROBERT LEVOY LEDFORD, JR. (B.S., Vanderbilt) Tullahoma, Tenn.

TIMOTHY WYATT LINEBERRY (B.S., Nebraska Wesleyan) Wahoo, Nebr.

D'ANNA LATESHA LITTLE (B.S., California, Berkeley) Los Angeles, Calif.

JANICE REBECCA LIU (B.S., Princeton) Bethesda, Md.

RICHARD JOHN LOCICERO (B.S., Georgia) Stone Mountain, Ga.

REGAN ANN LOGAN (B.S., Northern Colorado) Durango, Colo.

TIMOTHY LOWE (B.A., California, San Diego) San Diego, Calif.

BRIAN ANTHONY MACAULAY (B.A., Whittier) La Habra Heights, Calif.

ROBERT JOSEPH MANGIALARDI (B.S., Millsaps) Greenville, Miss.

RICHARD BLAIR MARTIN (B.A., Vanderbilt) Nashville, Tenn.

DOUGLAS CHARLES MATHEWS (B.S., California, Los Angeles) Canoga Park, Calif.

JOHN EDWARD MAXA (B.S., Notre Dame) Cheraw, S.C.

MARILYNN ELIZABETH MICHAUD (B.S., Middle Tennessee State) Brentwood, Tenn.

RANDALL MCTYRE MINOR (B.S., University of the South) Paris, Tenn.

JAMES MICHAEL MOORE (B.S., Hampden-Sydney) Mechanicsburg, Pa.

KENNETH DAVID MOORE (B.S., Vanderbilt) Memphis, Tenn.

CATHERINE JILL MOSES (B.A., Carleton) Franklin, Tenn.

JOHN PHILIP MOYERS (B.S., B.A., Indiana) Nashville, Tenn.

SAMUEL EDWIN MURRELL III (B.A., Harvard) Orlando, Fla.

TIMOTHY O. NOREUIL (B.S., Illinois State) Springfield, Ill.

GREGORY SCOTT PARRIES (B.S., Moorhead State; Ph.D., Wisconsin) Moorhead, Minn.

KATHERINE L. PATTERSON (B.A., Indiana) Indianapolis, Ind.

BENJAMIN BANKS PEELER (B.S., Wake Forest) Jacksonville, Fla.

- GREGORY JAMES PERRY (B.A., Wisconsin) Milwaukee, Wisc.
JEFFREY NORMAN PIERCE (B.S., Wake Forest) Elizabeth City, N.C.
KENNETH CHARLES PETRONI (B.A., Dartmouth) Santa Clara, Calif.
KATHERINE ELLEN PRILLAMAN (B.S., Davidson) Newport News, Va.
LAWRENCE STANLEY PUZIO (B.A., Johns Hopkins) Ogdensburg, N.J.
- PATRICK SHAWN REYNOLDS (B.S., Tennessee Technological) Cookeville, Tenn.
JOHN CHARLES RICHIER (B.S., M.S., Illinois) Downers Grove, Ill.
ERIC CHARLES RINGWALT (B.A., Davidson) Corona Del Mar, Calif.
SUZANNE PATRICIA RIVA (B.S., Emerson; Pre-med Program, Columbia University) Washington, D.C.
- JOHN DAVID ROSDEUTSCHER (B.A., Vanderbilt) Bowling Green, Ky.
DAVID MICHAEL ROSE (B.S., Mississippi) Columbus, Miss.
JOHN JIWOONG RYU (B.A., Pennsylvania) Nashville, Tenn.
- DONALD AVRAM SAROFF (B.S., Maryland) Rockville, Md.
MARCUS FRANCESCO SCIADINI (B.S., Florida) Saint Petersburg, Fla.
LEROY DAVID SEAUX (B.A., Harvard) Pineville, La.
ALAN FURHUNG SHIKOH (B.A., Transylvania) Frankfort, Ky.
SUSAN TALBOTT SILVEIRA (B.S., Stanford) Monte Sereno, Calif.
BENNETT MICHAEL SPETALNICK (B.S., M.A., American) Atlanta, Ga.
DAVID JONATHAN STALLARD (B.S., Florida) Melbourne, Fla.
PHYLEEN MAE STEWART (B.A., Harvard) McLean, Va.
- MELISSA KAY THOMAS (B.A., Southern Mississippi) Memphis, Tenn.
ALAN PHILIP TUTTLE II (B.S., Johns Hopkins) Washington Township, N.J.
- MATTHEW IAN WAHL (B.A., New College) West Islip, N.Y.
PETER CHEN-HUA WANG (B.S., Tulane) Pine Bluff, Ark.
DANIEL SCOTT WEIKERT (B.A., Indiana) French Lick, Ind.
JAMES CHARLES WHEELER (B.A., David Lipscomb) Rochester, N.Y.
GREGORY RICHARD WHITE (B.S., Arizona) Camarillo, Calif.
SUSAN LINDLEY WOUTERS (B.S., David Lipscomb) Huntsville, Ala.
- KENT DOUGLAS YUNDT (B.S., Purdue) Tipton, Ind.
JOHN ALAN ZIC (B.S., Notre Dame) Oak Lawn, Ill.

Fourth Year Class

- CHRISTEN ARISTIDES ALEVIZATOS (B.S., B.A., Washington and Lee) Sparks, Md.
JORDAN ROSS ASHER (B.S., Emory) Nashville, Tenn.
- KIMBERLY W. BAIN (B.S., Indiana) Michigan City, Ind.
ROBERT SIDNEY BAIN, JR. (B.S., Harding) Lexington, Ky.
JEFFREY RAYMOND BALSER (B.S., Tulane; Ph.D., Vanderbilt) Evansville, Ind.
ELIZABETH ANN BAXTER (B.S., Rhodes) Nashville, Tenn.
DONALD WAYNE BRADY (B.A., Vanderbilt) Memphis, Tenn.
- PHILIP DAVID CHARLES (B.S., Vanderbilt) Tuscaloosa, Ala.
BARBARA ANN CHINI (B.S., Notre Dame) Camillus, N.Y.
MARK ALTON COBB (B.A., David Lipscomb; M.S., Vanderbilt) Nashville, Tenn.
JOSEPH JAMES CREELY III (B.S., Notre Dame) Kenner, La.

- DAVID KENT DEBOER (B.A., Westmar; M.S., Vanderbilt) Antioch, Tenn.
 JILL DEBONA (B.A., Virginia) Babylon, N.Y.
 CLARICE RENA DECKER (B.A., South Dakota State) Wolsey, S.D.
 JEFFREY ALLEN DESJARDIN (B.S., Wisconsin, Eau Claire) Peshtigo, Wis.
 ROBERT ALAN DIEKROEGER (B.S., Stanford) Big Canoe, Ga.
 STEVEN EDWARD DOMINO (B.S., M.S., Michigan; Ph.D., Vanderbilt) Ann Arbor, Mich.
 JONATHAN DREIFUS (B.A., Brown) Memphis, Tenn.
- MARK ALLEN EARNEST (B.A., Wake Forest) Kingsport, Tenn.
 ERIC TOMSON EMERSON (B.A., California, Santa Barbara) Malibu, Calif.
- LAUREN GAYLE FICKS (B.A., California, San Diego) Woodland Hills, Calif.
 LANA KAY FISCHER (B.A., Augustana) Pierre, S.D.
 MARK EUGENE FOGARTY (B.A., Virginia) Webster Groves, Mo.
- CLIFFORD LOUIS GARRARD III (B.A., Vanderbilt) Jackson, Tenn.
 DAVID CAMPBELL GERLACH (B.S., M.S., Kansas) Wichita, Kans.
 GEOFFREY JAY GONICK (B.A., California, San Diego) Marina Del Rey, Calif.
 DAVID LEE GORDEN (B.A., Brown) Bethesda, Md.
 ANGELA MARY GUBITOSI (B.A., De Pauw) Euclid, Ohio
 NELS CHRISTIAN GUNNARSEN (B.A., Amherst) Sacramento, Calif.
- ANNE VENABLE EDMUNDS HANSEN (B.A., Sweet Briar) Lexington, Va.
 KATHERINE LOUISE HANSON (B.S., Cornell) Chester, N.J.
 WILLIAM DAVID HARDIE (B.A., Ohio Wesleyan) Wilmington, Ohio
 TINA VIVIENNE HARTERT (B.A., Brown) Cottekill, N.Y.
 BRUCE FREDRIC HAUPT (B.S., United States Air Force Academy) Cincinnati, Ohio
 AMY LYNNE HAYS (B.S., Pittsburgh) Allison Park, Pa.
 JANET ANDREWS HORTON (B.A., Bowdoin) Englewood, Fla.
 RICHARD LEMASTER HUBBELL (B.S., David Lipscomb) Columbia, Tenn.
- MICHAEL WAYNE JAMES (B.A., Carroll) Billings, Mont.
 ROBERT HARRIS JEFFERSON III (B.S., University of the South) Thomasville, Ga.
 ELIZABETH HARTLEY JOHNSON (B.A., Bowdoin) Nashville, Tenn.
 LOUIS COLLINS JOHNSON III (B.A., Vanderbilt) Jackson, Miss.
 STEPHANIE JO JOHNSON (B.A., Concordia [Moorhead, Minn.]) Brookings, S.D.
 WALTER ARTHUR JONES III (B.S., Kentucky) Louisville, Ky.
- DAVID EARL KILGORE (B.A., Hendrix) Hampton, Ark.
 KIMBERLY ANNE WOODS KLIPPENSTEIN (B.S., Vanderbilt) Seminole, Fla.
- GEORGE STANFORD LAW (B.A., Colorado) Colorado Springs, Colo.
 BRUCE WALTER LINDGREN (B.A., Doane) Wahoo, Nebr.
 KIMBERLY ANN LINNANDER (B.S., Rhodes) Phoenix, Ariz.
 EDITH SARAH LOVEGREN (B.S., Furman; Ph.D., Vanderbilt) New Orleans, La.
- MARK JAMES MAFFETT (B.A., Oregon) Medford, Ore.
 ANNYCE STOKES MAYER (B.A., Wellesley) Bethany, Conn.
 JOHN DAVID MCCAFFERY (B.S., Washington and Lee) Monroe, Mich.
 LOUISE EVERINGHAM MCGAVIC (B.A., Smith) Prospect, Ky.
 MARK RAY MCILWAIN (B.S., Alabama; D.M.D., Alabama, Birmingham) Tuscumbia, Ala.
 KAREN JOANNE MEURER (B.S., Wisconsin) Milwaukee, Wis.
 DAVID SCOTT MORGAN (B.A., Yale) Little Rock, Ark.

- RONALD ANDREW NELSON (B.S., Stanford) Portland, Ore.
KIRSTEN NIELSEN (B.A., Mount Holyoke) Easton, Conn.
FLORIN REX NIELSEN, JR. (B.S., Utah) Salt Lake City, Utah
- STUART CAMPBELL RAY (B.S., Vanderbilt) Nashville, Tenn.
LAURA ELIZABETH ROGERS (B.A., Williams) Glencoe, Md.
SCOTT EDWIN RUDER (B.A., Illinois Wesleyan) Herscher, Ill.
THEODORE ALLEN RUFF (B.A., Miami University [Ohio]) Bloomington, Ind.
JOSEPH HOWARD RUPARD (B.S., M.S., David Lipscomb; Ph.D., Vanderbilt) Mocksville, N.C.
BRUCE ALLEN RUSSELL (B.A., Columbia University) Portland, Ore.
- ANTHONY ANDRES SANCHEZ (B.A., Missouri) Columbia, Mo.
GEORGE FRANKLIN SAWAYA (B.A., Hendrix) Sherwood, Ark.
NICOLE LOUISE SCHLECHTER (B.A., Ph.D., California, Berkeley) Los Angeles, Calif.
HARRY LOWELL SCHROEDER (B.S., Colorado State) Estes Park, Colo.
FORREST FRANKLIN SCHRUM III (B.A., Wake Forest) Kingsport, Tenn.
STEPHEN WILLIAM SMITH (B.S., Georgia) Fayetteville, Ga.
STUART ELDRIDGE SMITH (B.S., Georgia) Fayetteville, Ga.
RANSOM GRADY SNOWDEN III (B.S., Duke) Jacksonville, Fla.
GRAY CLARK STAHLMAN (B.S., California, Berkeley) Saratoga, Calif.
DANIEL FRIDOLIN SULSER (B.S., Vanderbilt) Nashville, Tenn.
WILLIAM BUCKLEY SUTTER (B.S., Notre Dame) Roswell, Ga.
JON ERIC SWEDENBORG (B.A., Duke) Potomac, Md.
- LISA DANIELLE TESTA (B.A., Immaculata; D.M.D., Pennsylvania) Cherry Hill, N.J.
DAVID SCOTT TURNER (B.S., Duke) Greenville, S.C.
- JURGEN UNUTZER (B.S., Iowa State; M.A., Chicago) Long Beach, Calif.
- BENJAMIN WHITTIER VAN VOORHEES (B.A., Dartmouth) Norfolk, Mass.
LISA CLARE VERDERBER (B.A., Duke) Summit, N.J.
- MARY LAIRD WARNER (B.A., Princeton) Nashville, Tenn.
ROBERT MICHAEL WESTLAKE (B.A., Harvard) Bethlehem, Conn.
THOMAS CHRISTOPHER WHITE (B.S., Washington University) Bella Vista, Ark.
THOMAS CLIFTON WOODYARD (B.S., Georgia Institute of Technology) Stone Mountain, Ga.
ROBERT BRADLEY WYRSCH (B.A., Drake) Springfield, Mo.
- PHILLIP GREGORY ZENTNER (B.A., California, Santa Cruz) Los Banos, Calif.

Fellows

- EDAYO ADEDOYIN Pharmacology
 JONATHAN S. ALEXANDER Pulmonary Medicine
 RAFAH M. Z. AL-HADDAD Anesthesiology
 MICHAEL B. ANDREWS Oncology
 MARK E. ANGEL Cardiology
 KAZUKO ARAKI Pediatrics
 JOSEPH AWAD Gastroenterology
 REBECCA L. BALL Biochemistry
 SMRITI BARDHAN Biochemistry
 CALVIN BELL Cardiology
 LUIZ BISCAIA Cardiology
 SANTO M. BORGANELLI Cardiology
 CAROLYN K. BROADLEY Pathology
 NANCY J. BROWN Pharmacology
 ANDREAS BUCKS Endocrinology
 SCOTT H. BUCK Pediatrics
 NADA BULUS Surgery
 CHRISTOPHER BUNCE Infectious Diseases
 DEAN BUTLER Oncology
 JEANETTE CANCEL Infectious Diseases
 ANGELO E. CANONICO Pulmonary Medicine
 MICHAEL G. CARLSON Endocrinology and Metabolism
 SUPORN CHUNCHARUNEE Hematology
 ROBERT J. CLARKE Pharmacology
 KEVIN A. COCKELL Gastroenterology
 ALBERTO COHEN-ABBO Pediatrics
 MARK COLLINGE Pharmacology
 GAIL A. CORNWALL Obstetrics/Gynecology
 TIMOTHY L. COVER Infectious Diseases
 THEODORE A. CRAIG Pharmacology
 CHUNHUA DAI Hematology
 ROBERT J. DEEGAN Pharmacology
 PETER J. DEMPSEY Pharmacology
 DAVID A. DEBOER Gastroenterology
 ROBERT W. DONALDSON Surgery
 SUSAN B. DORSEY Biochemistry
 RYSZARD DWORSKI Dermatology
 TIMI I. EDEKI Pharmacology
 MICHAEL E. EDWARDS Radiology
 STEPHEN A. FAHRIG Cardiology
 TOUFIC FAKHOURY Neurology
 TINA H. FINESMITH Dermatology
 DANNY B. FISCHER Nephrology
 ROBERT L. FORTI Infectious Diseases
 CHRIS FRIESINGER Nephrology
 LUCINDA FURCI Pharmacology
 HIROAKI FUREYA Nephrology
 DANIEL GAIXAN Endocrinology
 AGUSTIN R. GARCIA-MOSQUEDIA Pharmacology
 GEORGE C. GARROW Oncology
 ELIAS C. GHANDOUR Nephrology
 DEBORAH N. GOLDNER Pharmacology
 DEBRA A. GONZALEZ Otolaryngology
 STACEY A. GOODMAN Hematology
 JAMES R. GOSSAGE Pulmonary Medicine
 STEVEN T. GREMILLION Cardiology
 ALEX GROSS Dermatology
 LUIS GUERRA-SANTOS Pharmacology
 DAVID W. HAAS Infectious Diseases
 KOSUKE HIGASHIDA Pediatrics
 CATHERINE R. HOFF Neonatology
 LARRY R. HOLDER Radiology
 RICHARD L. HORNDASCH Pediatrics
 DEBRA A. HORSTMAN Pharmacology
 SARON A. HORTON Cell Biology
 SHAN HUANG Neurological Surgery
 W. G. HUMPHREYS Biochemistry
 MASAAKI IKOMA Pediatric Nephrology
 KEYUAN JIANG Biomedical Engineering
 ROBERT L. JOBE Cardiology
 GWENITH JONES Biochemistry
 YOSHIHIKO KAKINUMA Pediatrics
 HIROKO KAMIJIO Obstetrics/Gynecology
 DOUGLAS W. KANE Pulmonary Medicine
 KYUNG HO KANG Pulmonary Medicine
 ARMANDO L. KARARA Nephrology
 HADEER N. KARMO Neonatology
 TATSUKO KATOH Gastroenterology
 TETSUO KATOH Nephrology
 TETSUYA KAWAMURA Pediatric Nephrology
 LINDA L. KELLEY Hematology
 DAVID M. KERINS Pharmacology
 TRAVIS E. KIDD, JR. Pathology
 THOMAS F. KILLIAN Cardiology
 JUN KOBAYASHI Pulmonary Medicine
 MASAAKI KOBAYASHI Pediatrics
 DANIEL W. KOENIG Nephrology
 JOYCE R. KOPPANG Cardiology
 STEPHEN T. KOURY Hematology
 DANA M. KUMJIAN Nephrology
 SANTOSHI KUNITADA Pharmacology
 ROBERT LAGRONE Rheumatology
 RUTH LAMAR Oncology
 ALAIN B. LEGRAND Pharmacology
 CLARENCE W. LEGERTOW Internal Medicine
 DAVID F. LEHMANN Pharmacology
 WAYNE J. LENNINGTON Surgical Pathology
 HAROLD D. LOVE Cell Biology
 WILLIAM R. MACON Pathology
 FUMIKO MATSUDA Anesthesiology
 WILLIAM R. MACON Pathology
 NAOMASA MAKITA Nephrology
 FUMIKO MATSUDA Anesthesiology
 DANIEL MCCAMMON Endocrinology
 ROBERT W. MCCLURE Gastroenterology
 THOMAS R. MCCUNE Nephrology
 YVONNE McMAHON Nephrology
 JOSEF MILERAD Neonatology
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 NIAMH M. MORAN Pharmacology
 DAVID E. MOORE Radiology
 PETER E. MORRIS Pulmonary Medicine
 JASON D. MORROW Pharmacology
 JOHN A. MORROW Cardiology
 JOSEPH A. MRAD Pediatric Gastroenterology
 PATRICK B. MURPHY Oncology

- KEVIN J. MYERS Rheumatology and Immunology
 NOZUMU NAKAGAWA Pediatrics
 TEREK NAMMOUR Nephrology
 JOSEPH R. NEWMAN Gastroenterology
 DAVID M. NIERSTE Cardiology
 HE NU Pharmacology
 TOSHIYUKI OHNO Pharmacology
 KOJI OKAMURA Surgery
 NIKI L. OQUIST Pediatric Cardiology
 PATRICIA M. ORMOND Pharmacology
 DIARMOID O'SHEA Pharmacology
 SUBIR K. PAUL Pharmacology
 EDWIN PEGUERO Neurology
 MARK PERKINS Infectious Diseases
 SHARON E. PERRY Pharmacology
 JONATHAN D. PLITMAN Pulmonary Medicine
 TIMOTHY C. QUICK Biochemistry
 ROBERT READ Gastroenterology
 RYAN M. ROBERTS Gastroenterology
 KENNY K. ROBBINS Neonatology
 ANDREW J. ROBERTS Pharmacology
 KARL M. ROGERS Oncology
 KREIG ROOF Adolescent Psychology
 TIMOTHY S. RUMMEL Pulmonary Medicine
 RAMZI SABRA Pharmacology
 ALLEN I. SACKS Pediatric Gastroenterology
 STEPHANIE SCHULZ Pharmacology
 STEPHAN SHARP Endocrinology
 REBECCA SHATTUCK Pharmacology
 WALTER E. SMALLEY Gastroenterology
 JOANNA SMOLAREK Microbiology
 RUDOLF SNAJDAR Biochemistry
 HOWARD M. SNYDER Nephrology
 MOU-LIN SUNG Pharmacology
 WENCHAO SONG Pharmacology
 MARENOS C. SOTERIOU Surgery
 GEORGE P. STACY, JR. Cardiology
 RAYMOND F. STAINBACK III Cardiology
 SANYA SUKPANICKNANT Hematopathology
 KEITH R. SUPERDOCK Nephrology
 S. S. SURRATT Pediatrics
 MASAHIRO TAKADA Pharmacology
 MAKOTO TANAKA Pharmacology
 MARIA T. TANTENGO Pediatric Cardiology
 FRANCISCA TAUSK Pathology
 GRACE E. TEAL Rheumatology
 JOHN P. TETZELI Endocrinology
 ANN T. THOMAS Hematology
 FORREST L. THOMPSON Hematology
 GORDON TODDERUD Biochemistry
 STEVAN P. TOFOVIC Pharmacology
 DAVID S. TROCHTENBERG Pulmonary Medicine
 HENRIETTA N. UKWU Infectious Diseases
 JOJI H. VAUGHN Infectious Diseases
 CARMEN VALENZUELA Pharmacology
 CARLOS VELASCO Cardiology
 VICKEN VORPERIAN Cardiology
 THOMAS M. WAITS Oncology
 ELOESA S. WALKER Cardiology
 JAY D. WALLS Oncology
 EN-ZE WANG Infectious Diseases
 L. WECLAS-HENDERSON Biochemistry
 JAMES A. WHITLOCK Pediatrics
 A. WICKREMA Hematology
 SHERMAN S. WIGGINS Cardiology
 ALLAN L. WILCOX Biochemistry
 EMILY WILSON Pharmacology
 GREGORY J. WILSON Pediatric Infectious Diseases
 SCOT WOMBLE Pharmacology
 WILSON WONG Pharmacology
 RONALD K. WRAY Gastroenterology
 BU XIN Gastroenterology
 MASAACKI YAMAGUCHI Pharmacology
 LIYING YANG Infectious Diseases
 JI YUE ZHANG Pharmacology
 NADA YAZIGI Pediatrics
 MASAHIRO YOSHIMOTO Pediatrics
 PETER YUEN Pharmacology
 HON HAO ZHOU Pharmacology
 DAVID M. ZIENTEK Cardiology

Residency Assignments Class of 1990

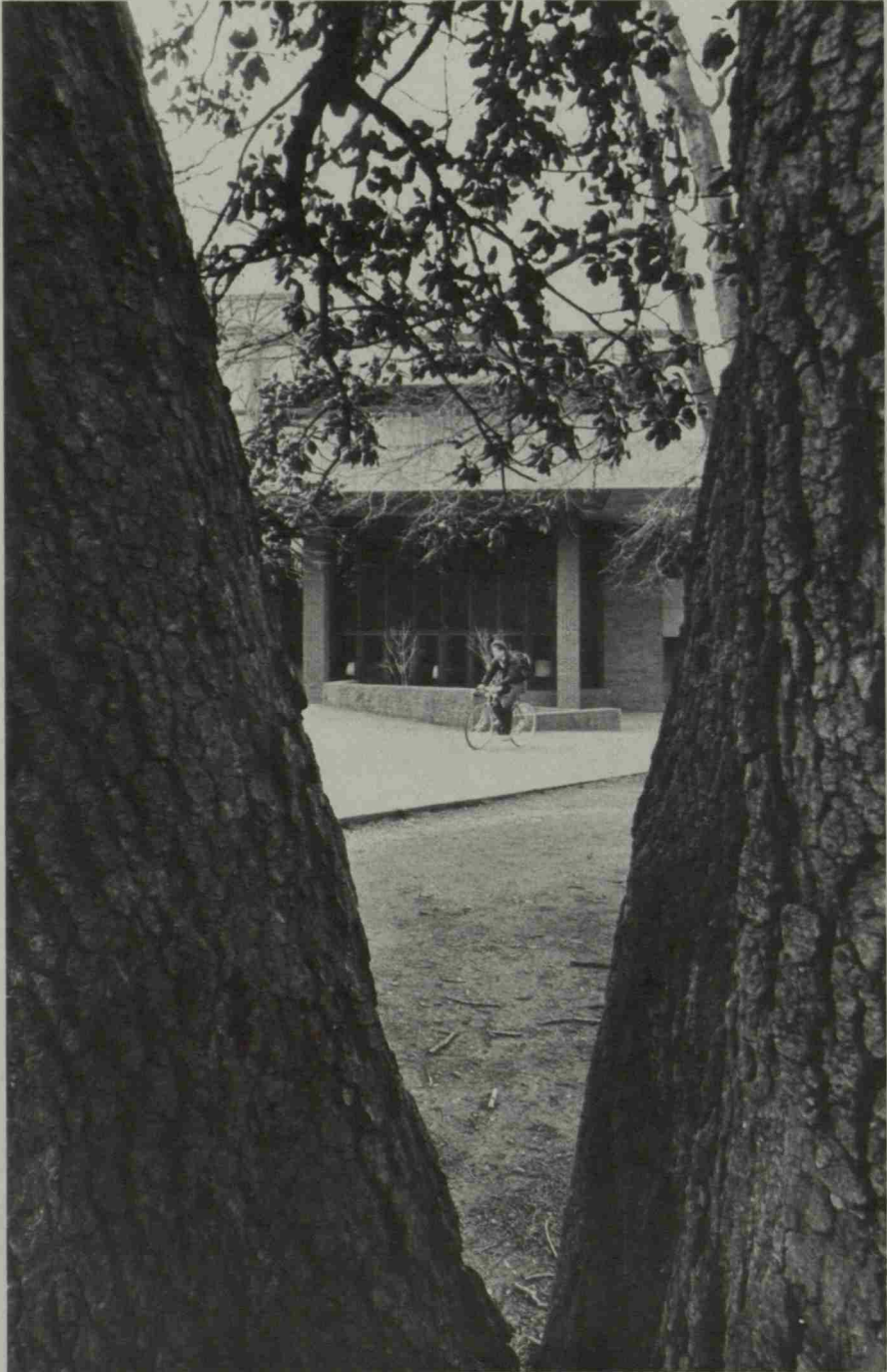
| | |
|--|------------------------|
| CHRISTEN ARISTIDES ALEVIZATOS University Health Center of Pittsburgh, Pa. (Surgery, Urology) | Sparks, Md. |
| JORDAN ROSS ASHER Vanderbilt University Affiliated Hospitals (Medicine) | Nashville, Tenn. |
| KIMBERLY LYNN WINGO BAIN University of Tennessee College of Medicine, Memphis (Obstetrics/Gynecology) | Michigan City, Ind. |
| ROBERT SIDNEY BAIN, JR. Methodist Hospital (University of Tennessee), Memphis (Transitional) | Lexington, Ky. |
| JEFFREY RAYMOND BALSER Johns Hopkins Hospital, Baltimore, Md. (Medicine) | Evansville, Ind. |
| ELIZABETH ANN BAXTER University of Tennessee College of Medicine, Memphis (Medicine) | Nashville, Tenn. |
| DONALD WAYNE BRADY Vanderbilt University Affiliated Hospitals (Medicine) | Memphis, Tenn. |
| PHILIP DAVID CHARLES Vanderbilt University Affiliated Hospitals (Medicine, Neurology) | Tuscaloosa, Ala. |
| BARBARA ANN CHINI Strong Memorial Hospital (University of Rochester), N.Y. (Pediatrics) | Camillus, N.Y. |
| MARK ALTON COBB University of Arkansas for Medical Sciences, Little Rock (Surgery, Neurosurgery) | Nashville, Tenn. |
| JOSEPH JAMES CREELY III Louisiana State University School of Medicine, New Orleans (Surgery, Otolaryngology) | Kenner, La. |
| DAVID KENT DEBOER Vanderbilt University Affiliated Hospitals (Orthopaedic Surgery) | Antioch, Tenn. |
| JILL DEBONA Baptist Hospital (University of Tennessee), Nashville (Medicine) | Babylon, N.Y. |
| CLARICE RENAE DECKER University of Nebraska Affiliated Hospitals, Omaha (Obstetrics/Gynecology) | Wolsey, S.D. |
| JEFFREY ALLEN DESJARDIN University of Colorado School of Medicine, Denver (Medicine) | Peshtigo, Wis. |
| ROBERT ALAN DIEKROEGER University of Colorado School of Medicine, Denver (Medicine/Primary) | Big Canoe, Ga. |
| STEVEN EDWARD DOMINO University of Michigan Hospitals, Ann Arbor (Obstetrics/Gynecology) | Ann Arbor, Mich. |
| JONATHAN DREIFUS Maine Medical Center, Portland (Surgery) | Memphis, Tenn. |
| MARK ALLEN EARNEST University of Colorado School of Medicine, Denver (Medicine) | Kingsport, Tenn. |
| ERIC TOMSON EMERSON University of South Florida College of Medicine, Tampa (Surgery) | Malibu, Calif. |
| LAUREN GAYLE FICKS University of California, Los Angeles Medical Center (Medicine/Primary) | Woodland Hills, Calif. |

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|--|------------------------|
| LANA KAY FISCHER | Pierre, S.D. |
| University of Iowa Hospitals & Clinics, Iowa City (Medicine) | |
| MARK EUGENE FOGARTY | Webster Groves, Mo. |
| University of Colorado School of Medicine, Denver (Medicine) | |
| CLIFFORD LOUIS GARRARD III | Jackson, Tenn. |
| Vanderbilt University Affiliated Hospitals (Surgery) | |
| DAVID CAMPBELL GERLACH | Wichita, Kans. |
| Baylor University Medical Center, Dallas, Texas (Surgery) | |
| GEOFFREY JAY GONICK | Marina Del Rey, Calif. |
| University of Washington Affiliated Hospitals, Seattle (Anesthesiology) | |
| DAVID LEE GORDEN | Bethesda, Md. |
| University of Minnesota Hospitals & Clinics, Minneapolis (Medicine) | |
| ANGELA MARY GUBITOSI | Euclid, Ohio |
| Vanderbilt University Affiliated Hospitals (Pediatrics) | |
| NELS CHRISTIAN GUNNARSEN | Sacramento, Calif. |
| Wright-Patterson Air Force Base Medical Center, Dayton, Ohio (Surgery) | |
| ANNE VENABLE EDMUNDS HANSEN | Lexington, Va. |
| Vanderbilt University Affiliated Hospitals (Nuclear Medicine) | |
| KATHERINE LOUISE HANSON | Chester, N.J. |
| Vanderbilt University Affiliated Hospitals (Medicine) | |
| WILLIAM DAVID HARDIE | Wilmington, Ohio |
| University of Cincinnati Hospital, Ohio (Pediatrics) | |
| TINA VIVIENNE HARTERT | Cottkill, N.Y. |
| Johns Hopkins Hospital, Baltimore, Md. (Medicine) | |
| BRUCE FREDRIC HAAPT | Cincinnati, Ohio |
| University of Cincinnati Hospital, Ohio (Orthopaedic Surgery) | |
| AMY LYNNE HAYS | Allison Park, Pa. |
| Saint Margaret Memorial Hospital, Pittsburgh, Pa. (Family Practice) | |
| JANET ISABEL ANDREWS HORTON | Englewood, Fla. |
| Maine Medical Center, Portland (Obstetrics/Gynecology) | |
| RICHARD LEMASTER HUBBELL | Columbia, Tenn. |
| Vanderbilt University Affiliated Hospitals (Pediatrics, Anesthesiology) | |
| MICHAEL WAYNE JAMES | Billings, Mont. |
| Keesler Air Force Base Medical Center, Biloxi, Miss. (Medicine) | |
| ROBERT HARRIS JEFFERSON III | Thomasville, Ga. |
| University of Alabama Medical Center, Birmingham (Urology) Vanderbilt University Affiliated Hospitals (Surgery-PGY 1) | |
| ELIZABETH HARTLEY JOHNSON | Nashville, Tenn. |
| Maine Medical Center, Portland (Medicine) | |
| LOUIS COLLINS JOHNSON III | Jackson, Miss. |
| Vanderbilt University Affiliated Hospitals (Medicine) | |
| STEPHANIE JO JOHNSON | Brookings, S.D. |
| University of Hawaii, Honolulu (Transitional) | |
| WALTER ARTHUR JONES III | Louisville, Ky. |
| Tulane University Medical Center, New Orleans, La. (Medicine) | |
| DAVID EARL KILGORE | Hampton, Ark. |
| Vanderbilt University Affiliated Hospitals (Psychiatry) | |

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|--|-------------------------|
| KIMBERLY ANNE KLIPPENSTEIN | Seminole, Fla. |
| Vanderbilt University Affiliated Hospitals (Medicine, Ophthalmology) | |
| GEORGE STANFORD LAW | Colorado Springs, Colo. |
| Keesler Air Force Base Medical Center, Biloxi, Miss. (Surgery) | |
| BRUCE WALTER LINDGREN | Wahoo, Nebr. |
| Loyola University Affiliated Hospitals, Maywood, Ill. (Surgery, Urology) | |
| KIMBERLY ANN LINNANDER | Phoenix, Ariz. |
| Vanderbilt University Affiliated Hospitals (Medicine) | |
| EDITH SARAH LOVEGREN | New Orleans, La. |
| University of Colorado School of Medicine, Denver (Medicine/Primary) | |
| MARK JAMES MAFFETT | Medford, Ore. |
| Vanderbilt University Affiliated Hospitals (Ophthalmology) Baptist Hospital (University of Tennessee), Nashville (Medicine-PGY 1) | |
| ANNYCE STOKES MAYER | Bethany, Conn. |
| Medical Center of Delaware, Newark (Emergency Medicine) | |
| JOHN DAVID MCCAFFERY | Monroe, Mich. |
| University of Minnesota Hospitals & Clinics, Minneapolis (Surgery, Otolaryngology) | |
| LOUISE EVERINGHAM MCGAVIC | Prospect, Ky. |
| University of Virginia Medical Center, Charlottesville (Anesthesiology) | |
| MARK RAY MCILWAIN | Tusculumbia, Ala. |
| Vanderbilt University Affiliated Hospitals (Surgery, Oral/Maxillofacial) | |
| KAREN JOANNE MEURER | Milwaukee, Wis. |
| University of Chicago Hospitals, Ill. (Medicine) | |
| DAVID SCOTT MORGAN | Little Rock, Ark. |
| Yale-New Haven Hospital, Conn. (Medicine) | |
| RONALD ANDREW NELSON | Portland, Ore. |
| Keesler Air Force Base Medical Center, Biloxi, Miss. (Medicine) | |
| FLORIN REX NIELSEN, JR. | Salt Lake City, Utah |
| Phoenix Integrated Residency Program, Ariz. (Obstetrics/Gynecology) | |
| KIRSTEN NIELSEN | Easton, Conn. |
| Vanderbilt University Affiliated Hospitals (Pediatrics) | |
| STUART CAMPBELL RAY | Nashville, Tenn. |
| Johns Hopkins Hospital, Baltimore, Md. (Medicine) | |
| LAURA ELIZABETH ROGERS | Glencoe, Md. |
| Keesler Air Force Base Medical Center, Biloxi, Miss. (Medicine) | |
| SCOTT EDWIN RUDER | Herscher, Ill. |
| University of California, San Diego Medical Center (Psychiatry) Ravenswood Hospital Medical Center, Chicago, Ill. (Transitional-PGY 1) | |
| THEODORE ALLEN RUFF | Bloomington, Ind. |
| Wright-Patterson Air Force Base Medical Center, Dayton, Ohio (Surgery) | |
| JOSEPH HOWARD RUPARD | Mocksville, N.C. |
| Medical University of South Carolina, Charleston (Family Practice) | |

| | |
|--|---------------------|
| BRUCE ALLEN RUSSELL | Portland, Ore. |
| Vanderbilt University Affiliated Hospitals (Surgery) | |
| ANTHONY ANDRES SANCHEZ | Columbia, Mo. |
| Portsmouth Naval Hospital, Va. (Surgery) | |
| GEORGE FRANKLIN SAWAYA | Sherwood, Ark. |
| University of California, San Francisco Medical Center (Obstetrics/Gynecology) | |
| NICOLE LOUISE SCHLECHTER | Los Angeles, Calif. |
| Vanderbilt University Affiliated Hospitals (Obstetrics/Gynecology) | |
| HARRY LOWELL SCHROEDER | Estes Park, Colo. |
| University of Southern California Medical School, Los Angeles (Surgery) | |
| FORREST FRANKLIN SCHRUM III | Kingsport, Tenn. |
| Vanderbilt University Affiliated Hospitals (Surgery, Urology) | |
| STEPHEN WILLIAM SMITH | Fayetteville, Ga. |
| Charlotte Memorial Hospital (University of North Carolina) (Orthopaedic Surgery) | |
| STUART ELDRIDGE SMITH | Fayetteville, Ga. |
| Charlotte Memorial Hospital (University of North Carolina) (Orthopaedic Surgery) | |
| RANSOM GRADY SNOWDEN III | Jacksonville, Fla. |
| Emory University School of Medicine, Atlanta, Ga. (Pediatrics) | |
| GRAY CLARK STAHLMAN | Saratoga, Calif. |
| Vanderbilt University Affiliated Hospitals (Orthopaedic Surgery) | |
| DANIEL FRIDLIN SULSER | Nashville, Tenn. |
| Bowman Gray School of Medicine, Winston-Salem, N.C. (Nuclear Medicine/Radiology) | |
| WILLIAM BUCKLEY SUTTER | Roswell, Ga. |
| Vanderbilt University Affiliated Hospitals (Radiology, Diagnostic) | |
| JON ERIC SWEDENBORG | Potomac, Md. |
| Stanford University Affiliated Hospitals, Calif. (Surgery, Otolaryngology) | |
| LISA DANIELLE TESTA | Cherry Hill, N.J. |
| Vanderbilt University Affiliated Hospitals (Surgery, Anesthesiology) | |
| DAVID SCOTT TURNER | Greenville, S.C. |
| Eisenhower Army Medical Center, Fort Gordon, Ga. (Medicine) | |
| JURGEN UNUTZER | Long Beach, Calif. |
| University of California, Los Angeles Neuropsychiatric Institute (Psychiatry) | |
| BENJAMIN WHITTIER VAN VOORHIS | Norfolk, Mass. |
| Vanderbilt University Affiliated Hospitals (Medicine/Pediatrics) | |
| LISA CLARE VERDERBER | Summit, N.J. |
| Vanderbilt University Affiliated Hospitals (Ophthalmology) Evanston Hospital (Northwestern University), Ill. (Transitional-PGY 1) | |
| MARY LAIRD WARNER | Nashville, Tenn. |
| Johns Hopkins Hospital, Baltimore, Md. (Medicine) | |
| ROBERT MICHAEL WESTLAKE | Bethlehem, Conn. |
| The New York Hospital (Cornell University), N.Y. (Medicine) | |
| THOMAS CHRISTOPHER WHITE | Bella Vista, Ark. |
| Wilford Hall Air Force Base Medical Center, San Antonio, Texas (Medicine) | |

- THOMAS CLIFTON WOODYARD Stone Mountain, Ga.
 Wright-Patterson Air Force Base Medical Center, Dayton, Ohio (Surgery)
- ROBERT BRADLEY WYRSCH Springfield, Mo.
 Vanderbilt University Affiliated Hospitals (Orthopaedic Surgery)
- PHILLIP GREGORY ZENTNER Los Banos, Calif.
 Columbia-Presbyterian Medical Center, New York, N.Y. (Radiation Oncology)
 Santa Clara Valley Medical Center, San Jose, Calif. (Transitional-PGY 1)



SCHOOL FOR NURSING

A.D. 1925



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School of Nursing



COLLEEN CONWAY-WELCH, Ph.D., C.N.M., Dean
JUNE C. ABBEY, Ph.D., R.N., Associate Dean for Research and Evaluation
BARBARA CHRISTMAN ADAIR, M.S.N., R.N., Associate Dean for Academic Programs
JUDY L. SPINELLA, M.S., R.N., Assistant Dean for Clinical Practice
JOYCE K. LABEN, J.D., R.N., Interim Department Chair for Physiological and Psychosocial Nursing
KATHARYN A. MAY, D.N.S., R.N., Department Chair for Family and Health Systems Nursing
CATHLEEN K. BRANNEN, M.B.A., Director of Finance and Administration
AMY HARSHMAN, M.P.A., Director of Enrollment Management and Marketing
PATRICIA L. PEERMAN, M.S., R.N.C.S., Director of Academic Administrative Affairs
SALLIE WAMSLEY, Registrar

Center for Nursing Research

JUNE C. ABBEY, Ph.D., R.N., Director
BARBARA J. HOLTZCLAW, Ph.D., R.N., Associate Director
DIANA D. BRANSFIELD, Ph.D., Assistant Director
DANA N. RUTLEDGE, Ph.D., R.N., Assistant Director

Faculty Council 1989/90

JOYCE K. LABEN, Chair
LUCILLE H. AULSEBROOK
VIRGINIA M. GEORGE
JANET SUZANNE HINDLE
JOAN E. KING
LARRY E. LANCASTER
JANIE CAPPS MACEY
SUSAN A. MORGAN

Standing Committees

The Dean is an ex officio member of all standing and special committees. Charges of committees are summarized. For more detailed descriptions of committee charges, see School of Nursing Bylaws, Article V.

Curriculum

(New members to be appointed in September 1990)

The Curriculum Committee has the responsibility of reviewing and evaluating the curriculum.

Mary Louise Donaldson, Chair. Carolyn J. Bess, Shirley M. Caldwell, Janet Suzanne Hindle, Leonard C. Lindsay, Bonita A. Pilon, Annette Kirchner Sastry. Student members: Sheryl Banak, Pat Green, Sandy Kinkade.

Faculty Recruitment and Appointment

(New members to be appointed in September 1990)

The Faculty Recruitment and Appointment Committee has the responsibility of developing and maintaining a roster of potential faculty candidates, in accordance with the faculty plan. The committee coordinates all aspects of the appointment process including recruitment and recommends faculty appointments to the Dean.

Barbara J. Holtzclaw, Chair. Elizabeth Kerr Hay, Susan A. Morgan, Virginia Vaughn Sinclair, Kenneth A. Wallston.

Nominating

(New members to be elected in September 1990)

The Nominating Committee has the responsibility of preparing a slate from consenting candidates for chair-elect, secretary, parliamentarian, senator, vacant positions on the Faculty Council, and elected committees.

Kenneth A. Wallston, Chair. Mary Helen M. Castillo, Joan E. King, Larry E. Lancaster, Mary Fern Richie.

Student Admissions and Academic Affairs

(New members to be appointed in September 1990)

The Student Admissions and Academic Affairs Committee has responsibility for reviewing and acting upon applications for admission to the School of Nursing; selecting traineeship, honor scholarship, and other appropriate scholarship recipients; reviewing student progress and considering and acting on student petitions for waiver of policy; and recommending to the Faculty Assembly conferral of degrees designating appropriate honors.

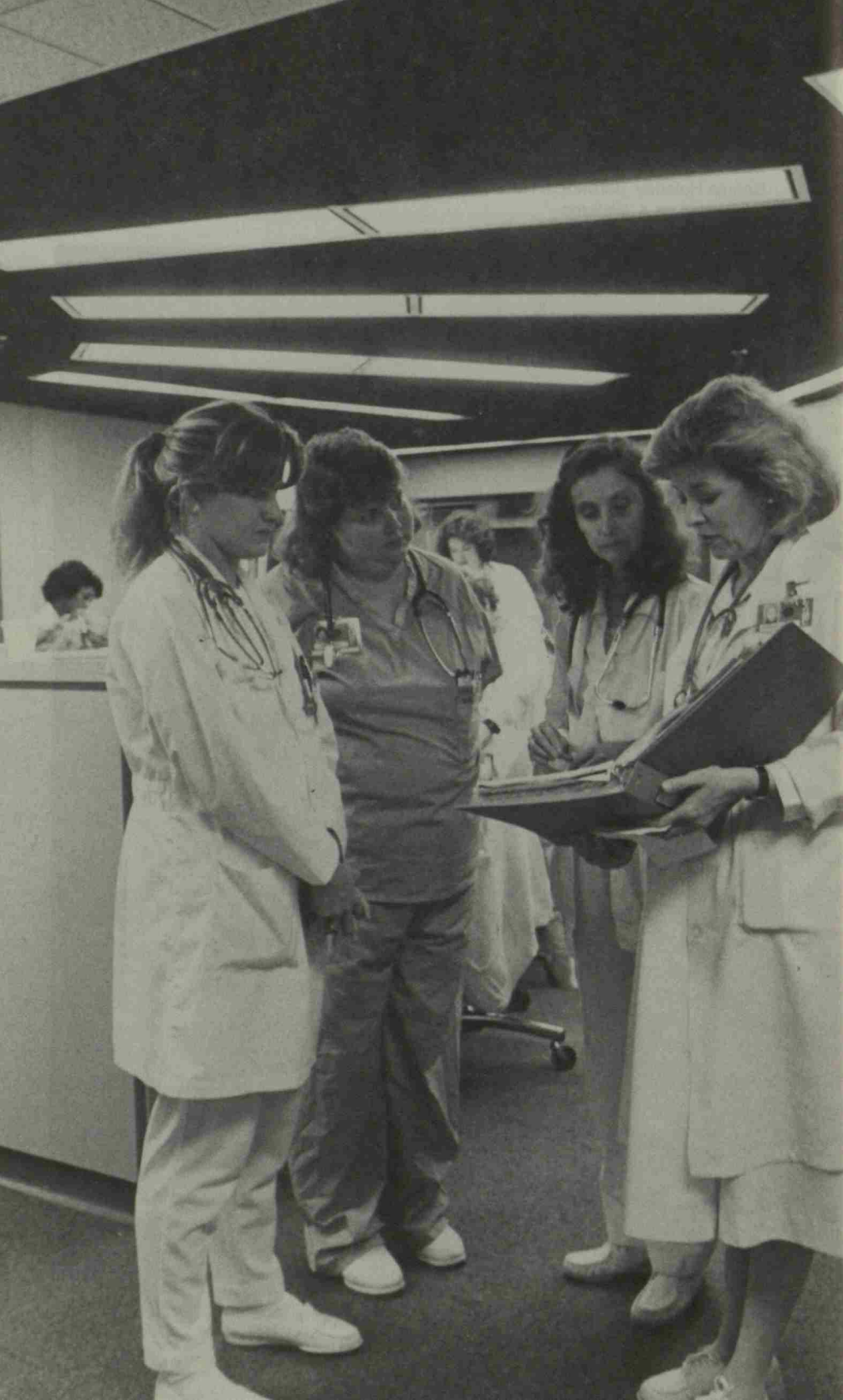
Judy Taylor Sweeney, Chair. Mary Louise Donaldson, Virginia M. George, Barbara Fox Grimes, Barbara C. Reynolds.

Tenure

The Tenure Committee has the responsibility of receiving and reviewing dossiers of persons to be promoted to Associate Professor or to be appointed to a rank holding tenure, and makes recommendations to the Dean.

June C. Abbey, Chair. Barbara Christman Adair, Lucille H. Aulsebrook, Virginia T. Betts, Catherine E. Dennis, Mary Louise Donaldson, Barbara Fox Grimes, Elizabeth Kerr Hay, Bonnie Holaday, Barbara J. Holtzclaw, Joyce K. Laben, Larry E. Lancaster, Katharyn A. May, Kenneth A. Wallston.





Nursing Education at Vanderbilt

VANDERBILT School of Nursing has a national reputation for excellence in nursing education and attracts students from across the nation and from several foreign countries.

The School of Nursing was founded in 1909 as the Training School for Nurses of Vanderbilt University Hospital, with a three-year program leading to eligibility for nurse licensure. Under University administration since 1930, the Nursing School became a part of Vanderbilt Medical Center in 1985. This new relationship allows the school and the Medical Center Department of Nursing to function more closely and offers greater opportunity for nursing faculty and students to interact with nursing staff, medical faculty, and medical students in the areas of teaching, research, and practice.

Accreditation. The school is approved by the Tennessee Board of Nursing. It was a charter member of the Association of Collegiate Schools of Nursing, which later was incorporated into the National League for Nursing (NLN).

The program is accredited by the National League for Nursing. In 1945, the undergraduate program was jointly accredited by the National League for Nursing Education and the National Organization for Public Health Nursing.

Philosophy of the School

The School of Nursing is committed to freedom of inquiry into the natural, social, and human orders of existence, and to stating the conclusions of that inquiry. The School of Nursing fosters excellence in both scholarship and service; a liberal education must concern the whole person. The curriculum requires both liberal arts and professional courses.

The central concepts of our profession are person, environment, health, and nursing. These four concepts interact and serve as the basis for the practice of nursing.

Each *person* is unique, with intrinsic worth and dignity. Human beings are whole persons, with interacting and interdependent physical structures, minds, and spirits.

The *environment* consists of all conditions, circumstances and influences which exist outside one's social system's boundary. There is an intimate relationship between the constantly changing environment and the person. The environment in which we live determines, to a degree, lifestyle

and state of health. Development of the individual occurs throughout life within a pluralistic and culturally diverse society.

Health is a dynamic state of being in which the developmental and behavioral potential of an individual is realized to the fullest extent possible. Individuals have the right to pursue that level of health perceived by them to be optimal, taking into account their social and cultural definition of health. The level of health that individuals can attain is directly influenced by the level of health of the families and communities of which they are a part.

Nursing is a professional discipline that seeks to understand phenomena and predict circumstances that affect the health of individuals, families, groups, and communities. The discipline of nursing encompasses science, ethics, politics, and the heritage of nursing. The central focus of the discipline is the diagnosis and treatment of individuals, families, and groups as they respond to actual or potential health problems. The practice of nursing is an art and a science, used to help individuals improve their health potential.

The profession of nursing builds on a liberal education, and a university provides the best possible environment for this kind of education. A liberal education includes fine arts and humanities as well as social, biological, and physical sciences. The synthesis of knowledge from these disciplines, as well as from nursing, will enhance the ability of nurses to understand self, relationships with others, the nature of communities, other cultures, the physical world, current issues, and human values.

The study of diverse disciplines contributes to the ability to think analytically, reason logically, and communicate effectively. Students are expected to continue growing in intellectual and communication skills, using their liberal education to deepen their understanding of nursing and health. University-wide interdisciplinary activities are actively sought for the intellectual exchange and stimulation they provide.

The purpose of graduate education in nursing is to prepare students for advanced practice roles including clinical specialist, nurse practitioner, and nurse administrator. At the master's level, graduate study provides the opportunity for in-depth theoretical knowledge, the basis for advanced clinical practice. Students acquire research skills and a deeper knowledge of their nursing specialty.

Graduate education provides students the knowledge and skills for planning and initiating change in a health care system. For potential members of interdisciplinary health care management teams, the focus is on advanced patient care skills that will provide leadership and will influence nursing organizations within a variety of health care settings. It is acknowledged that preparation for the nurse educator role requires education beyond the master's degree.

The first professional degree in nursing at Vanderbilt is specialty-related and offered on the graduate level. The increase in knowledge and scope of nursing responsibilities, as well as changes in roles, functions,

and practice settings, require a post-baccalaureate nursing education that is built on a rich undergraduate liberal education base and a baccalaureate in nursing or its equivalent.

The nursing program at Vanderbilt constitutes an arena for excellence in nursing practice, as well as a forum for discussion and analysis of issues that affect health care, consumers, the nursing profession, and society. The program is based on a variety of cognitive styles, life experiences, and professional backgrounds, and its flexibility allows all students to achieve the same goals through different options.

Code for Nurses

The school adheres to the American Nurses Association's Code for Nurses. The Code for Nurses is based on belief about the nature of individuals, nursing, health, and society. Recipients and providers of nursing services are viewed as individuals and groups who possess basic rights and responsibilities and whose values and circumstances command respect at all times. Nursing encompasses the promotion and restoration of health, the prevention of illness, and the alleviation of suffering. The statements of the code and their interpretation provide guidance for conduct and relationships in carrying out nursing responsibilities consistent with the ethical obligations of the profession and quality in nursing care. The nurse provides services with respect for human dignity and the uniqueness of the client, unrestricted by considerations of social or economic status, personal attributes, or the nature of health problems.

Organizing Framework

Course sequencing in the M.S.N./M.E.O. program is designed to move students from 1) basic to advanced knowledge and skill levels, 2) less to more complex practice situations, and 3) generalist (Bridge) to specialist role preparation. Course objectives include content in the three learning domains: cognitive, affective, and psychomotor, appropriately progressed in each taxonomy.

The curriculum design has three components: prerequisite liberal education requirements, generalist nursing courses, and specialist nursing courses. The prerequisite liberal education requirements assist the student in acquiring basic knowledge and understanding of human beings, culture, environment, and health through the study of the arts, humanities, and social, biological, and physical sciences. This basic knowledge is applied to the study of nursing in the nursing components of the curriculum.

The generalist (Bridge) component of the curriculum consists of clinical and non-clinical courses that contain nursing practice and discipline content at beginning levels. Clinical experiences focus on less complex situa-

tion that reflect an understanding of the nursing process and the nursing paradigm in health promotion and maintenance, illness care, and rehabilitation. The theoretical basis for practice is presented in the classroom and provides the scientific knowledge base needed to diagnose and treat human responses to actual or potential health problems. Non-clinical courses focus on the discipline of nursing content in the areas of ethics, economics, politics, legal issues, and the heritage of nursing. The sequencing of the generalist nursing courses is somewhat more flexible for R.N. students than for other students because of prior exposure to all clinical areas except Community Health.

The specialist component of the curriculum is divided into three segments: foundation, research, and specialty courses. Foundation courses are core requirements and include nursing theory and professional and health issues. The research segment consists of two required research courses and options for additional research-oriented learning activities as a culminating advanced knowledge experience. The specialty segment focuses on a particular advanced practice area. The foundation and research segments continue the discipline of nursing content in greater depth and breadth. The specialty courses focus on advanced knowledge and skills in a given specialty area in order to prepare graduates who can function in complex situations and advanced practice roles, including those of clinical nurse specialist, nurse practitioner, and nurse administrator.

Program Goals

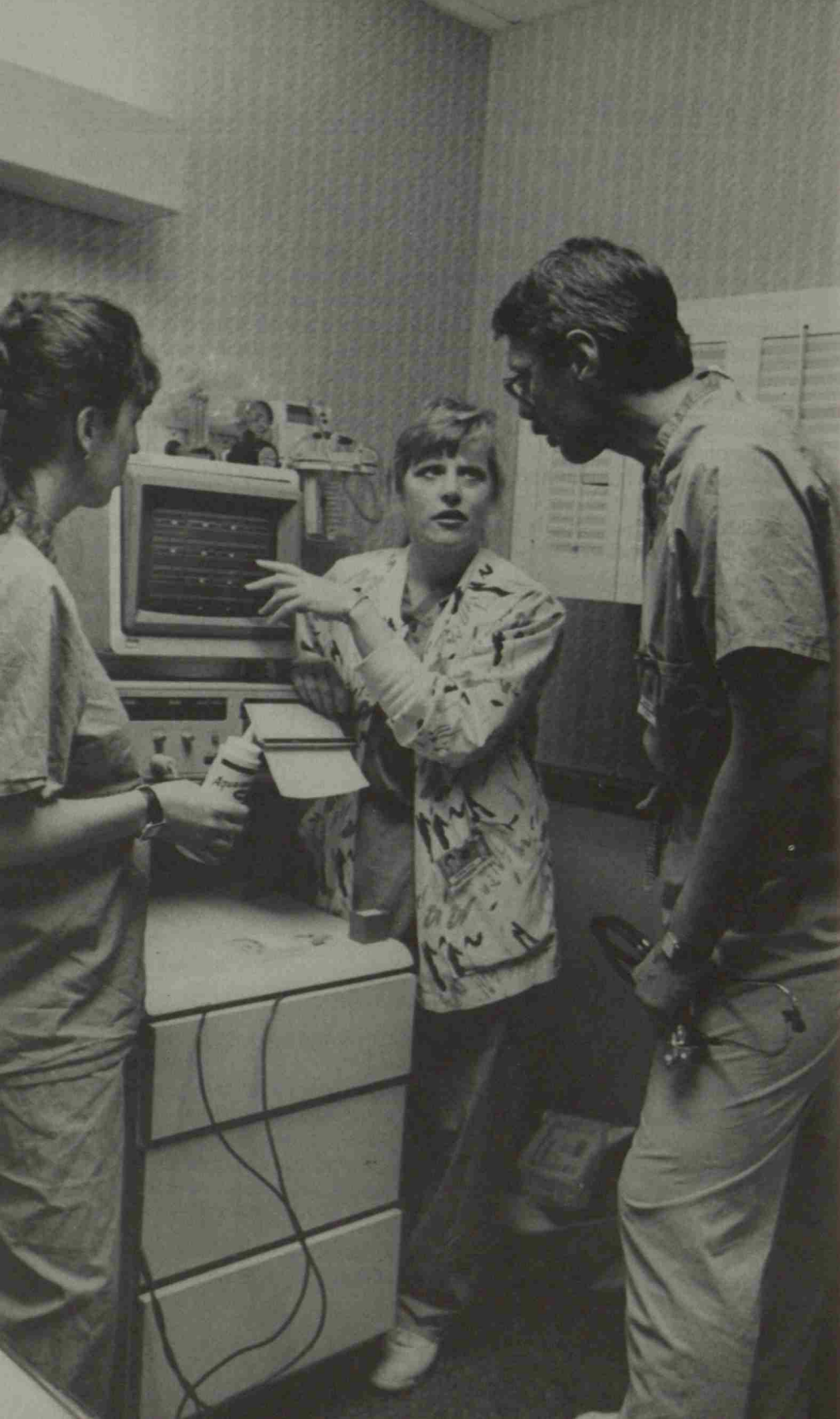
The goals of the M.S.N. program are to prepare:

1. Students for advanced practice roles including clinical specialists, nurse practitioners, and nurse administrators who have expertise and advanced knowledge in a specialty area and who can function in complex situations either independently or collaboratively with health care team members.
2. Seekers of new knowledge by means of critical thinking, creative reasoning, and scientific investigation in relation to nursing practice and nursing science.
3. Disseminators of nursing knowledge and research to consumers and professionals.
4. Leaders capable of determining effective strategies that stimulate change within the profession and that lead to a more effective management of the health care delivery system.
5. Decision-makers who utilize advanced knowledge and consider ethical principles in serving the needs of individuals and society.
6. Students who possess the foundation for doctoral education.

All students are expected to meet the above program goals whether they enter the M.S.N. program with a B.S.N. or through the three-semester

generalist (Bridge) component. Students who enter through the Bridge program, however, must also meet transitional goals upon completion of the three semesters of generalist nursing courses. The generalist transitional goals are to prepare:

1. Students who apply knowledge of the structure and function of human systems to health promotion, maintenance, illness care and rehabilitation through the use of the nursing process and who can function independently and collaboratively with health care team members in providing health care to multicultural populations in diverse environments.
2. Students who use problem solving skills in the scientific investigation, diagnosis and treatment of human responses to actual and potential health problems.
3. Students who communicate effectively in a variety of practice situations.
4. Students who provide leadership in nursing practice and participate in the change process within the profession based on an understanding of nursing's heritage.
5. Students who are accountable for decisions made about independent nursing actions and demonstrate awareness of the economic, political, legal and ethical issues related to practice.
6. Students who possess a sound academic foundation for master's level specialist education.



Admission

DIRECT admission to the Master of Science in Nursing (M.S.N.) program requires graduation from an NLN-accredited baccalaureate program with an upper division major in nursing (B.S.N. degree). Applicants from unaccredited nursing programs will be considered on an individual basis.

Admission without a B.S.N. degree is possible via a generalist nursing bridge program. Qualified students without a B.S.N. enter the Master of Science in Nursing with Multiple Entry Options (M.S.N./M.E.O.) program, also known as the Bridge program.

Admission to the M.S.N. Program with a B.S.N.

Admission is based on the following factors:

1. *Undergraduate Grade Point Average.* It is recommended that applicants have at least an average of *B* in nursing and a cumulative average of *B*.

2. *Standardized Test Scores.* Applicants are required to have taken either the Graduate Record Exam (GRE) or the Miller Analogies Test (MAT) within five years of the application date.

Graduate Record Examination Aptitude Test. Preferably, the applicant should have a composite score of 1000 or above for verbal and quantitative portions. Those with scores below 1000 may be asked, upon faculty request, to provide additional evidence of aptitude. Applicants are reminded to take the test early to meet application deadlines, since it is often six weeks before scores are reported. Information on the GRE may be obtained by writing Educational Testing Service, Princeton, New Jersey 08540, or by calling 1-800-241-3865.

Miller Analogies Test. It is recommended that the applicant have a score of 50 or above. Information on the Miller Analogies Test can be obtained from the Vanderbilt Psychological and Counseling Center, 300 Oxford House, 1313 21st Avenue South, Nashville, Tennessee 37212 or from the Psychological Corporation, 555 Academic Court, San Antonio, Texas 78204-0958 (telephone [512] 270-0524 or 270-0410).

Graduate Management Admission Tests (GMAT) are required of all students applying for the joint degree program (M.S.N./M.B.A.). The GMAT score may be submitted instead of a GRE or MAT score for M.S.N./M.B.A. applicants.

3. *Official Transcripts.* Applicants must submit one transcript from each post-secondary institution attended.

4. *R.N. License.* Current licensure in Tennessee is required at the time of matriculation except for students who have taken the licensing examination but have not received the results. Individuals admitted pending examination results are subject to immediate withdrawal from graduate (300 level) clinical courses if the examination is not passed. Once the license is obtained the individual may enroll in courses with a clinical practice component.

5. *Letters of Recommendation.* Three letters of recommendation are required.

6. *Personal Interview.* An interview is required. A personal interview is desirable, but a telephone interview can be arranged.

7. *Prerequisite Courses.* A course in physical (health) assessment that includes laboratory experience in physical examination and history-taking skills must be completed prior to admission. Individuals who have not had formal credit for this course but who have proficiency in the area may request to demonstrate proficiency by challenge examination. The challenge examination will be scheduled by appointment. A course will be offered at Vanderbilt during selected semesters. An introductory course in statistics that includes descriptive and inferential statistical techniques is required for admission.

8. *Health History.* Students are required to submit documentation of a negative tuberculin skin test or chest X-ray, Hepatitis B vaccine, Rubella antibody titer, and/or other appropriate immunizations to Student Health Services before initial registration.

9. *M.S.N./M.B.A. Program.* Students applying for the joint degree M.S.N./M.B.A. program must apply and be admitted both to the School of Nursing and to Owen Graduate School of Management. Application packets for Owen may be obtained through the School of Nursing.

Applicants may submit transcripts to the School of Nursing. Copies will be forwarded to Owen Graduate School of Management.

Admission to the M.S.N. Program via the Bridge

The School of Nursing offers several options for entry into the M.S.N. program for applicants who do not hold a B.S.N. degree. Qualified applicants are eligible for admission in the following categories:

1. Entry with a non-nursing liberal education degree from an accredited college or university or through a formalized senior-in-absentia program. Such applicants must complete prerequisites in human anatomy, human physiology, microbiology/bacteriology, and statistics. In addition, students must have either nutrition or lifespan development. Students enter the generalist nursing (Bridge) program where they complete 46–47 hours of generalist courses. They then complete 39 hours in courses for a nursing specialty.

2. Entry with an associate degree in nursing or a diploma from an NLN-accredited nursing school with 72 semester or 110 quarter hours of transferable credit (see Prerequisite Courses below).

Registered Nurse students enter the generalist nursing (Bridge) program but may obtain credit by examination for many of these courses. After completing, or obtaining credit by examination for, the 46–47 hours of generalist nursing required in the Bridge curriculum, they complete 39 hours in a nursing specialty.

3. Entry with 72 semester or 110 quarter hours of prerequisite courses (see below). Students enter into the generalist nursing (Bridge) program. After completing 46–47 hours of generalist nursing courses, they complete 39 hours in a nursing specialty.

Prerequisite Courses

English. 6 hours

English composition, literature, or Vanderbilt courses designated with a "W" meet this requirement.

Humanities. 6 hours

Humanities courses are those concerned with human thought, including literature, classics, drama, fine arts, history, philosophy, and religion. Technical or skill courses such as applied music or studio art are not acceptable as humanities courses.

Mathematics. 3 hours.

An introductory course in statistics that includes descriptive and inferential statistical techniques is required. Math 127–128, Math 180, Math 233, or Psychology 2101P are the courses offered at Vanderbilt that fulfill this requirement.

Social Sciences. 9 hours

Social Sciences include psychology, sociology, anthropology, political science, and economics.

Natural Sciences. 11 hours

Natural Sciences courses in human anatomy (Nursing 160), physiology (Nursing 170), and microbiology (Molecular Biology 102a or 190) are required. Chemistry 101a–101b or Chemistry 102a–102b is strongly recommended but not required for admission.

Lifespan Development or Nutrition. 2–3 hours

Either Lifespan Development or Nutrition is a prerequisite course. If a student takes both courses, the total number of prerequisite hours is 74–75 instead of 72. Vanderbilt students may take Psychology 221, Developmental Psychology; Human Resources 1000, 1001, or 1002, Applied Human Development; Psychology 1610, Human Growth and Development; or Psychology 2690, Special Topics: Lifespan Development, for the lifespan

development requirement. Nursing 231, Introduction to Nutritional Health, fulfills the requirement for nutrition.

Electives. 34–35 hours

The remaining hours of prerequisites may consist of prior college-level nursing or elective courses, *except* physical education courses, pass/fail courses, courses with grades lower than C, courses taken at unaccredited schools, and nursing courses taken at diploma schools. Students entering with a baccalaureate degree in a field other than nursing must have as prerequisite courses: Human anatomy and physiology; microbiology/bacteriology; statistics; and either lifespan development or nutrition.

Admission Criteria

Admission to the Bridge program is based on the following factors:

1. *Undergraduate Grade Point Average.* It is recommended that the applicant have at least a B average in nursing and a cumulative average of B.

2. *Standardized Test Scores.* Applicants are required to have taken either the Graduate Record Examination, the Miller Analogies Test, or the Graduate Management Admission Test, as appropriate, within five years of the application date. See Admission to the M.S.N. Program with a B.S.N. for recommended scores and additional details.

3. *Official Transcripts.* Applicants must submit one transcript from each post-secondary institution attended.

4. *Current Licensure.* Registered Nurse students must be licensed to practice in Tennessee. Individuals admitted pending examination results are not eligible for credit by examination courses until licensure is obtained.

5. *Letters of Recommendation.* Three letters of reference are required.

6. *Personal Interview.* An interview is required, preferably in person, but a telephone interview could be arranged.

7. *Health History.* Students are required to submit documentation of a negative tuberculin skin test or chest X-ray, Hepatitis B vaccine, Rubella antibody titer, and/or other appropriate immunizations to the Student Health Service before initial registration.

Applicants who do not meet all the listed criteria will be considered on an individual basis.

Admission Criteria for Nursing Administration

Admission criteria for the Nursing Administration specialty or joint degree M.S.N./M.B.A. program are the same as the general admission criteria, with the following additional requirement:

A minimum of two years of full-time experience as a Registered Nurse in an organized nursing setting is required for regular admission into the program. An applicant with one year of full-time experience, however, may matriculate as a part-time student while maintaining a nursing position in a clinical setting.

Application Procedure

Application forms for the M.S.N. and the Bridge programs may be secured from the Admissions Office of the School of Nursing. A \$50 non-refundable fee is required when the application is submitted. Applications for the fall semester should be received by 15 February, for the spring semester by 15 October, and by 15 April for the summer semester. Applications received after the published deadlines will be accepted provided space is available. Admission decisions are made as soon as all application materials are received. Applications are considered current for one year; applicants who do not enroll during that time must reapply for admission.

Transfer Credit

Students admitted to the Bridge program can receive transfer credit for N204, Dimensions of Professional Nursing; N231, Introduction to Nutrition; and N236, Principles of Growth and Development throughout the Life Span, if the course presented for transfer covers equivalent content and the grade earned was at least a C. Students must have completed either a life span development course or a nutrition course in their prerequisite coursework. Registered Nurse students receive credit for N200, Basic Nursing Skills, based on transfer credit from their associate degree or diploma nursing program. If transfer credit is granted for N200, N204, N231, or N236, the hours count toward the 46–47 hours of generalist nursing (Bridge) component and cannot be counted toward the 72 hours of prerequisites required for admission.

Transfer credit is considered for post-baccalaureate courses taken elsewhere within five years of admission, upon request on the application form. The specialty coordinator approves transfer credit for specialty courses and/or elective courses. The Associate Dean for Academic Programs approves transfer credit for foundation and research courses. If courses are approved, a total of 6 semester hours may be transferred. No credit is awarded toward the degree for courses designated as prerequisite for admission.

Credit by Examination

Registered Nurse students in the Bridge program are required to take at least 16 hours of the generalist nursing component and all 39 hours of the specialist nursing component in residence. They may, however, earn credit by examination for up to 30 hours of the generalist nursing component. Credit by examination may be obtained for the following generalist nursing courses: 203, 204, 220, 230, 231, 237, 240, 250, and 270.

Tests for credit by examination vary according to the course being challenged. The 2- or 3-credit-hour didactic courses (204, 231, 237, and 270) involve successful completion of objective tests and, in some courses, submission of a required paper. The 2-credit-hour Health Assessment course (203) and the 4-credit-hour clinical courses (220, 230, 240, and 250) involve objective testing and demonstration of clinical competency in the content area. Tests are either midterm or final course examinations or standardized tests such as NLN.

Study packets that include a course syllabus and bibliography are available to students accepted in the Bridge program. Packets may be obtained from the faculty member coordinating the credit by examination for that particular course. Full tuition is charged for credit hours earned by examination.

Students who make a *D* or an *F* grade in an attempt to earn credit by examination must take the course. When the course is successfully completed, the *D* or *F* grade will be designated an *RC* (repeat course) and will not count in hours earned or in the grade point average.

Schedules for the credit by examination tests are published one semester in advance in the course schedule book. Students preregister for the courses they intend to take the following semester. If the course has a clinical component, the student must register for a clinical section with the registrar, Sallie Wamsley, in 106 Godchaux Hall. Spaces are limited in the clinical courses.

Registered nurse students in the specialist component who are certified through a professional nursing organization in the area of specialty practice may obtain credit by examination for selected specialty courses. The credit by examination procedure will verify acceptable knowledge and skill attainment received through national certification at the specialist level. Credit by examination will be limited to a maximum of two specialty courses. Verification of the certification must be presented directly to the School of Nursing from the certifying agency before the student is eligible to register for credit by examination. Full tuition is charged for courses in which credit by examination is earned.

Other courses in the specialist component may be available for credit by examination as determined by the Curriculum Committee or upon petition to the Student Admission and Academic Affairs Committee. Students may consult with their faculty advisers for further information.

International Students

Vanderbilt has a large international community representing almost seventy countries. The University welcomes the diversity that international students bring to the campus, and encourages academic and social interaction at all levels. A *Handbook for Internationals* is available from the Office of International Services, P.O. Box 507 Peabody, Nashville, Tennessee 37203, U.S.A.

Admission. Students from other countries are required to complete all the normal admission requirements of the University. Applicants whose native language is not English must present the results of the Test of English as a Foreign Language (TOEFL) with their application. The minimum suggested TOEFL score for admission to the School of Nursing is 550. Students who score below 550 may be required to enroll in an intensive English language program prior to beginning work on their degree. Vanderbilt offers such a program. It is recommended, though not required, that students who have demonstrated competence while attending an American institution should take the TOEFL to enhance the possibility of admission. Inquiries and requests for application forms should be addressed to TOEFL, CN 6151, Princeton, New Jersey 08541-6151, U.S.A.

Entering students whose proficiency in English is low should consider enrolling in an intensive English language program before beginning academic studies. In some cases the course may be required. For information about Vanderbilt's English language program, write to the Center for Orientation Programs in English (COPE), Box 510 Peabody, Nashville, Tennessee 37203. COPE's telephone number is (615) 322-2753.

Before Vanderbilt can document visa status, applicants who have been offered admission must demonstrate that they have sufficient financial resources to meet the expected cost of their entire educational program. Vanderbilt has no special funds allocated for aid to foreign students. Foreign students should not expect to meet the cost of their education by working while enrolled at Vanderbilt.

Prior to admission, foreign applicants who are nurses must have taken the Tennessee licensing examination and an exam of the Commission on Graduates of Foreign Nursing Schools. Information on the latter may be obtained by writing the commission at 3624 Market Street, Philadelphia, Pennsylvania 19104 or by calling (215) 349-8767. The Commission on Graduates of Foreign Nursing Schools exam is given in April and October in thirty-five different countries and five U.S. cities, not including Nashville. Information on the Tennessee licensing exam may be obtained from the Tennessee Board of Nursing, 283 Plus Park Boulevard, Nashville, Tennessee 37219-5407.

Student Classification

The following classifications apply to M.S.N. and M.S.N./M.E.O. students.

Regular Student. Enrolled full time or part time in the School of Nursing, having met admission requirements.

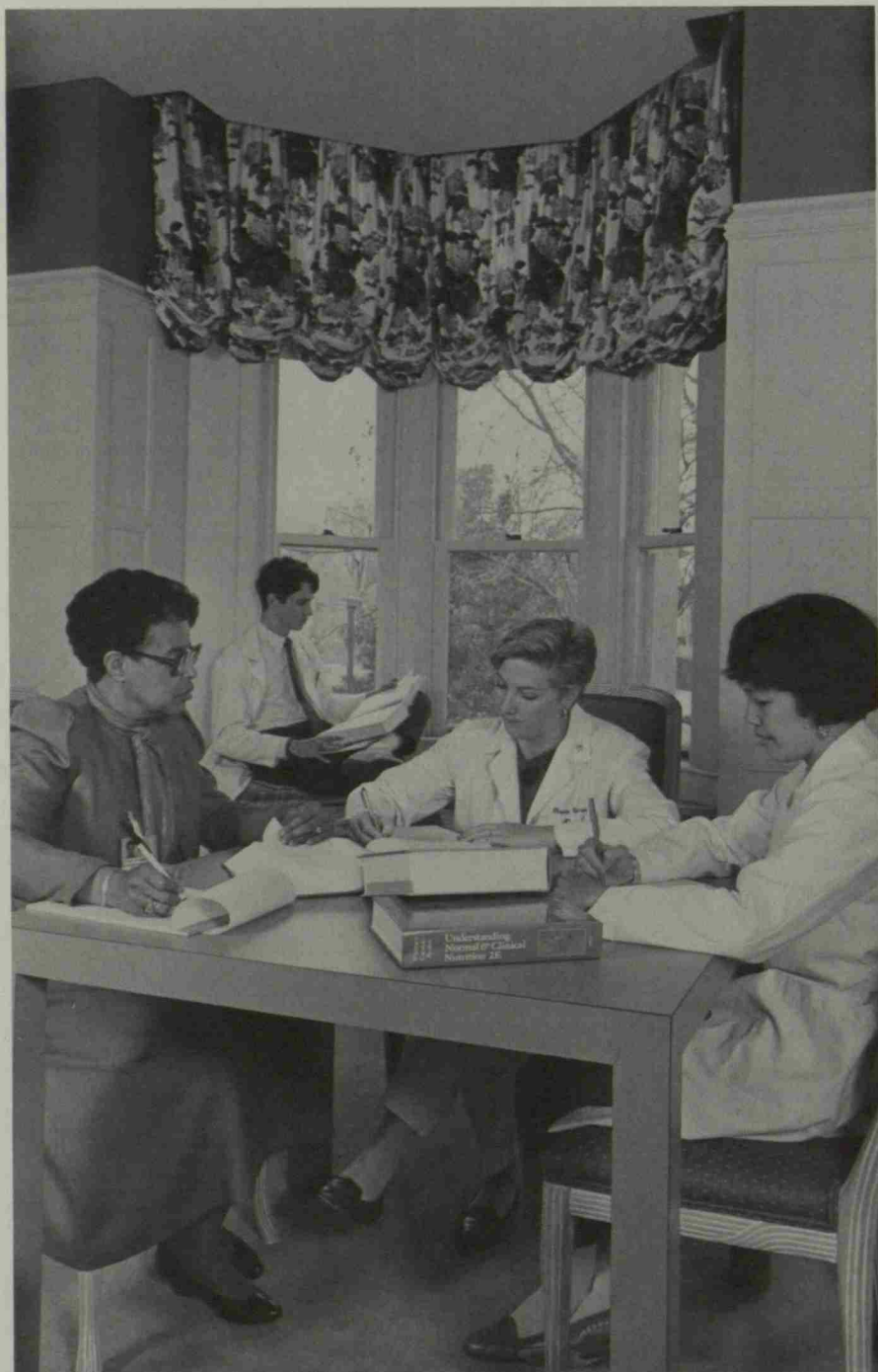
A full-time student in the M.S.N. program normally will enroll for 9 to 15 credit hours a semester. Full-time students in the generalist nursing component of the Bridge program enroll for 12 to 18 hours. Students registered for thesis or master's project (0-3 hours) are also defined as full time. Part-time students in the M.S.N. program carry fewer than 9 hours per semester; part-time students in the Bridge program carry fewer than 12 hours per semester.

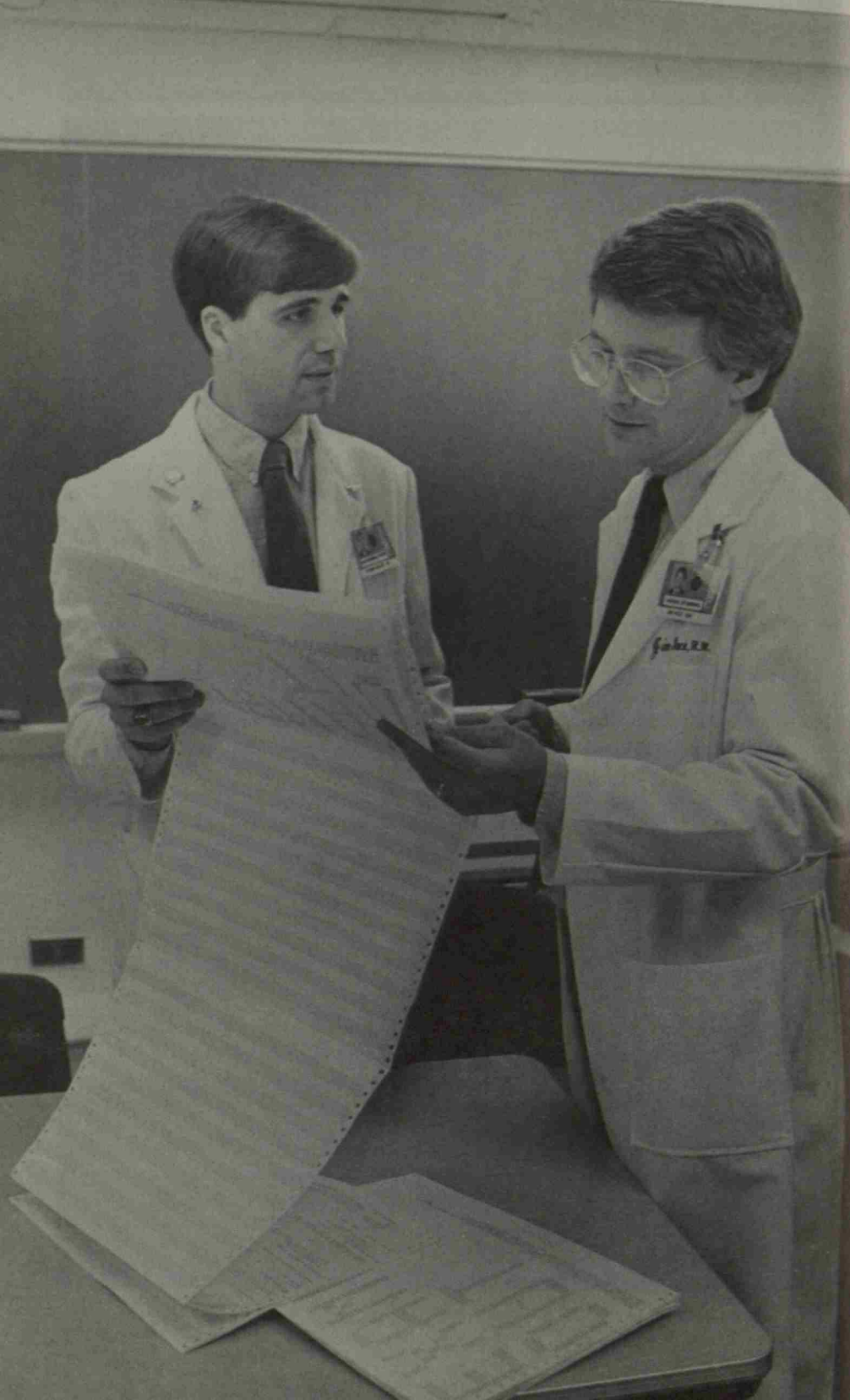
Students entering the M.S.N. program with a B.S.N. degree must complete all degree requirements within six years of first enrollment. Students in the Bridge program must complete all degree requirements within eight years of first enrollment.

Special Student. Enrolled in one or more non-clinical Bridge or graduate courses but not working toward a master's degree in the School of Nursing. A limit of 7 credit hours is permitted in this status. Successful completion of courses taken as a special student does not guarantee admission to the Bridge or graduate program.

To be considered as a special student, an applicant must submit a completed application form with transcripts and the non-refundable application fee at least two weeks before registration. Acceptance into a course is dependent upon availability of space and facilities after full-time and part-time students have been registered.

Registration as a special student requires approval by the Associate Dean for Academic Programs. All University and School of Nursing regulations, including the Honor System, apply to special students. Special students who desire to change to regular student status should make application for admission to a specialty following regular procedures.





The M.S.N. Program

THE Master of Science in Nursing, the first-professional degree in nursing at Vanderbilt, is specialty-related and offered at the graduate level. The increase in knowledge required of nurses and the scope of their responsibilities, as well as changes in roles, functions, and practice settings, require a post-baccalaureate nursing education built on a rich undergraduate liberal education and a baccalaureate nursing degree or its equivalent.

Due to the present diversity in nursing programs, educational opportunities must be made available to facilitate progression to the M.S.N. as the first-professional degree. Vanderbilt School of Nursing offers several options for entry into a master's degree program designed to accommodate a variety of cognitive styles, life experiences, and professional backgrounds.

In addition to educating students, the M.S.N. program provides other benefits. Faculty members are engaged in the investigation of nursing practice and theory, innovative nursing care, and participation in national, state, and local activities related to nursing and health care delivery. Thus, they serve as role models for students, the profession, and the public. The program constitutes an arena for excellence in nursing practice and research, as well as a forum for discussion and analysis of issues that affect health care, consumers, the nursing profession, and society.

Advanced Practice

Adult Acute/Critical Care

This specialty prepares students for advanced practice roles by providing a broad foundation in concepts of acute/critical care nursing and clinical expertise in a specific area of concentration. Potential areas include critical care (medical, surgical, and/or cardiovascular), trauma, burn, renal, or any general acute care setting. Additional areas of concentration may be planned, based on individual student preferences and availability of resources. Students in this specialty take core courses that lay the foundation for individualized, in-depth study of acute/critical care nursing.

Adult Chronic Care

This specialty prepares students for advanced practice roles by providing a broad base of concepts in chronic care nursing and clinical expertise in primary, secondary, or tertiary care. Students in this specialty take didactic and practicum courses that lay the foundation for individualized, in-depth study of chronic care nursing.

Adult Psychiatric–Mental Health Nursing

Students study individuals, groups, and families in which adults are experiencing moderate to severe psychiatric–mental health problems. Clinical placements are provided in both community and institutional settings. Opportunities exist for experiences with particular target populations, such as substance abuse, forensic services, chronic mental illness, and sexual health concerns.

Child and Adolescent Nursing

This specialty provides a broad theoretical and research foundation in advanced concepts of child and adolescent nursing. Graduates in the specialty are able to assist children and adolescents and their families in recovering and/or adapting to illnesses or disabilities. Graduates are prepared to provide comprehensive physical and psychosocial care in a variety of settings.

Child and Adolescent Psychiatric–Mental Health Nursing

Students study children and adolescents and their families who are experiencing moderate to severe psychiatric–mental health problems under varying environmental and cultural conditions. Clinical placements are provided in community and institutional settings. Opportunities exist for experiences with particular target populations such as eating disorders, substance abuse, attention deficits, conduct disorders, learning disabilities, mood and anxiety disorders, and high-risk families.

Family Nurse Practitioner

This specialty prepares graduates to deliver comprehensive primary care to individuals, from infancy through adulthood. Emphasis is on acquisition of the knowledge and skills necessary for a family-centered approach to health promotion and intervention in illness. Students gain clinical experience in child and adult health care settings. The preceptorship permits students to select a clinical area of interest for further professional development. Graduates are eligible to take American Nurses Association (ANA) certification exam.

Gerontological Nurse Practitioner

This specialty focuses on primary care of older adults. Emphasis is on acquisition of knowledge and skills necessary for health assessment, illness prevention, and health care management. Students learn to modify the treatment regimen to meet the physical and psychosocial needs of the aged.

Clinical experiences in institutional and community settings are required throughout the program. The final clinical experience, the preceptorship, takes place in a primary care setting. The preceptorship calls on the knowledge and skills acquired throughout the course of study. Graduates are eligible to take the Gerontological Nurse Practitioner exam.

Geropsychiatric–Mental Health Nursing

Students selecting the geropsychiatric–mental health nursing specialty focus on individuals who are experiencing acute psychosocial and developmental problems associated with health and sociocultural factors such as physical illness and major loss. Other populations include those with declining cognitive function and those with chronic mental illness.

The elderly client is viewed within the context of the family and significant others, and nursing care derives from a multidisciplinary approach. Clinical placements are provided in numerous settings, including the home, inpatient and long-term care facilities, and day care agencies.

Neonatal/Infancy Nursing

This specialty focuses on the nursing needs of neonates and infants through thirty-six months of age. Recognizing that neonatal/infant development is ongoing and cannot be separated from care, the nursing process is addressed using a developmental approach. Within this specialty, two areas of study are available: Neonatal/Infancy Nursing and Neonatal Critical Care (starting Fall 1991). This specialty emphasizes the use of theory and research findings from nursing and health-relevant fields to guide innovative nursing practice and models of health care delivery. Students are prepared to assume entry-level advanced practice roles and to contribute to the advancement of the nursing profession and discipline. The clinical experiences provided include care of healthy neonates and infants, as well as care of those with short- and long-term health disruptions. Sites for clinical experiences are located in primary, secondary, and tertiary sectors of the health care system. Only those applicants having a minimum of one year of Level III NICU registered nurse experience and AHA/APA Neonatal Resuscitation Certification will be eligible for admission to the Neonatal Critical Care option. All graduates will be eligible to take certification examinations given by the American Nurses' Associa-

tion (ANA) and the National Association of the American College of Obstetrics and Gynecologists (NAACOG).

Nursing Administration

This specialty is offered in collaboration with Peabody College and Owen Graduate School of Management. It prepares graduates for the advanced practice role of nursing administration. The specialty is designed to prepare the graduate for multiple roles on an interdisciplinary health management team, with skills in planning, designing, managing, and evaluating programs and resources within a variety of health care settings.

Perinatal Nursing

After completing this program, students will be prepared to provide expert care to families experiencing complex health problems during childbearing. The specialty seminar courses focus on concepts, new information, and questions in perinatal health. The clinical courses offer the opportunity to apply new knowledge in individually selected clinical sites. All course work may be applied to the certifying examinations of the ANA and Nurses' Association of the American College of Obstetricians and Gynecologists (NAACOG).

Joint Program

M.S.N./M.B.A.

The M.S.N./M.B.A. joint degree is offered through the Administration Specialty at the School of Nursing and Owen Graduate School of Management.

The M.S.N.-M.B.A. joint degrees are uniquely designed to prepare nurse administrators for top level management in various health care settings. In addition to advanced practice in nursing administration, opportunities are provided for advanced practice in financial management. Admission is required to the School of Nursing and Owen Graduate School of Management. Other admission requirements are two years of nursing experience as a registered nurse and the GMAT.

Students are required to attend full time and will take 66-69 hours of required coursework in five semesters including one summer of full-time study. A non-credit math review course taken at Owen School may be required of students in the summer preceding fall enrollment. Nursing and management practice are required in selected courses. Special re-

quirements for admission to the joint degree program are listed under admission criteria for Nursing Administration. Specific curriculum information is available in the Office of Admission.

Degree Requirements

For students entering with a B.S.N. degree, the M.S.N. degree is based on a minimum of 39 credit hours. All degree requirements must be completed within six years of first enrollment. The grade of *B* in each clinical course and an overall *B* average is required. No more than 9 hours of Pass-Fail credit may apply to the degree. No required core or specialty course may be taken Pass-Fail. No audit courses apply to the degree. Up to 6 hours may be transferred from other schools for graduate courses taken within the past five years. No credit is awarded toward the degree for courses designated as prerequisite for admission.

For students entering through the Bridge program, the M.S.N. degree is granted on the basis of 85–86 credit hours. In the generalist nursing or Bridge component, students must earn at least a *C* in each course. To progress from the generalist to the specialist component, students must: (a) complete 46–47 semester hours of the generalist nursing component with the minimum grade of *C* in each course and (b) earn a cumulative grade average of *B*. Students entering the Bridge program must complete all M.S.N. degree requirements within eight years of initial enrollment.

In addition to the ordinary course evaluations, the M.S.N. candidate may be required, at the discretion of the faculty, to take a final comprehensive examination. Such examination shall be completed no later than fourteen days before the degree is to be granted. The candidate for the degree must have satisfactorily completed the M.S.N. curriculum, have passed all prescribed examinations, and be free of indebtedness to the University.

Certification

Students interested in becoming certified in a specialty should consult their specialty directors for details. Certification is offered through several professional nursing organizations, including the American Nurses' Association. The ANA offers specialty certification for M.S.N.-prepared nurses in the following areas: medical-surgical nursing, gerontological nursing, nursing administration, family nurse practitioner, adult nurse practitioner, pediatric nurse practitioner, pediatric nursing, perinatal nursing, gerontological nurse practitioner, adult psychiatric nursing, and child and adolescent psychiatric nursing.



The Curriculum



Master of Science in Nursing with Multiple Entry Options

The M.S.N./M.E.O. program has three component parts:

General Education Courses. 72 semester hours, all of which the applicant must have completed before entering the program. (Details of the 72 prerequisite hours are listed under Admission to the M.S.N. Program via the Bridge, page 209.)

Generalist Nursing Courses. 46–47 hours.

Specialist Nursing Courses. 39 hours.

Generalist Nursing Curriculum Overview

The generalist nursing component consists of 49 hours of undergraduate level nursing courses. Registered Nurse students must take 16 hours in residence; they may, however, earn credit by examination for up to 30 hours. The generalist nursing courses can be completed in three semesters (one calendar year) of full-time study. A sample curriculum plan for the generalist nursing courses follows:

Generalist Nursing Sample Curriculum

FALL SEMESTER

| | | HOURS |
|-----------|-----------------------------------|-------------|
| 200◆ | Basic Nursing Skills | 3 |
| 201• | Conceptual Foundations of Nursing | 4 |
| 203†‡ | Health Assessment | 2 |
| 220†‡ | Adult Health I | 4 |
| 231†◆ | Nutrition | 2 |
| or | | |
| Psy 2690◆ | Life Span Development | 3 |
| | | <hr/> 15–16 |

SPRING SEMESTER

| | | HOURS |
|-------|---------------------------------------|----------|
| 204†◆ | Dimensions of Professional Nursing | 2 |
| 230†‡ | Maternity Nursing | 4 |
| 237† | Drug Therapy | 2 |
| 240†‡ | Pediatric Nursing | 4 |
| 250† | Psychiatric and Mental Health Nursing | 4 |
| | | <hr/> 16 |

| SUMMER SEMESTER | | HOURS |
|-----------------|-----------------------------------|-------|
| 254• | Law, Ethics, and Politics | 3 |
| 260• | Community Health | 4 |
| 270†7 | Adult Health II | 3-5 |
| 286• | Nursing Leadership and Management | 3 |
| | Elective (RNs only) | 2 |
| | | 15-17 |

† RNs may obtain credit by examination

◇ RNs receive automatic credit

◆ Transfer credit accepted.

• Required course for all students

7 Course taught in a 7-week module

After successful completion of the generalist nursing component, students will enter directly into the specialty master's component. The specialty master's component can be completed in three semesters (one calendar year) of full-time study. This component of the M.S.N./M.E.O. program follows the same curriculum plan as the direct entry M.S.N. program—39 hours of credit including foundation, research, and specialty courses. Please refer to the Specialist Nursing Curriculum below for sample curriculum plans in the various specialties.

Generalist Nursing: Part-Time Studies

Part-time students should meet with their faculty advisers regularly to update their program of studies. Part-time Bridge students have eight years from first enrollment to complete all M.S.N. degree requirements.

The following is a suggested program of part-time studies for the generalist nursing component. Students must check the schedule, however, for availability of courses each semester.

Sample Curriculum for Registered Nurse Students

| YEAR ONE | | Fall | Spring | Summer |
|------------------------|--|------|--------|--------|
| 201 | Conceptual Foundations of Nursing | 4 | — | — |
| 203† | Health Assessment | 2 | — | — |
| 236◆★ | Principles of Growth and Development | 3 | — | — |
| 204†◆ | Dimensions of Professional Nursing | — | 2 | — |
| 220†, 230†, or 240† | Adult Health, Maternity Nursing, or Pediatric Nursing | — | 4 | — |
| 254 | Law, Ethics, and Politics | — | — | 3 |
| 286 | Nursing Leadership and Management | — | — | 3 |
| | | 9 | 6 | 6 |

| YEAR TWO | | Fall | Spring | Summer |
|--------------------------------|--|----------|----------|----------|
| 220†, 230†, or 240† | Adult Health, Maternity Nursing, or Pediatric Nursing | 4 | 4 | — |
| 231†♦ | Nutrition | 2 | — | — |
| 237† | Drug Therapy | 2 | — | — |
| 250† | Psychiatric and Mental Health Nursing | — | 4 | — |
| 260 | Community Health | — | — | 4 |
| 270 | Adult Health II | — | — | 3 |
| | Elective | — | — | 2 |
| | | 8 | 8 | 9 |

† Registered Nurse students may earn credit by examination but must formally register for each course.

♦ Transfer credit accepted.

★ N236 is not currently offered. Other courses that fulfill this requirement are Psychology 221, Human Resources 1000, and Peabody Psychology 1610 and 2690.

Sample Curriculum for Non-Registered Nurse Students

| YEAR ONE | | Fall | Spring | Summer |
|------------|------------------------------------|----------|----------|----------|
| 200 | Basic Nursing Skills | 3 | — | — |
| 201 | Conceptual Foundations of Nursing | 4 | — | — |
| 203 | Health Assessment | 2 | — | — |
| 204 | Dimensions of Professional Nursing | — | 2 | — |
| 220 | Adult Health | — | 4 | — |
| 237 | Drug Therapy | — | 2 | — |
| 254 | Law, Ethics, and Politics | — | — | 3 |
| 286 | Nursing Leadership and Management | — | — | 3 |
| | | 9 | 8 | 6 |

| YEAR TWO | | Fall | Spring | Summer |
|--------------|---------------------------------------|----------|----------|----------|
| 231† | Nutrition | 2 | — | — |
| 236†★ | Principles of Growth and Development | 3 | — | — |
| 230 | Maternity Nursing | 4 | — | — |
| 240 | Pediatric Nursing | — | 4 | — |
| 250 | Psychiatric and Mental Health Nursing | — | 4 | — |
| 260 | Community Health | — | — | 4 |
| 270 | Adult Health II | — | — | 5 |
| | | 9 | 8 | 9 |

† Nutrition or life span development is a prerequisite for admission.

★ N236 is not currently offered. Other courses that fulfill this requirement are Psychology 221, Human Resources 1000, and Peabody Psychology 1610 and 2690.

Specialist Nursing Curriculum Overview

Foundation Courses. 6 semester hours

Foundation Courses encompass those content areas essential for all master's degree students. These offerings allow students across specialties to share experiences and learn together.

The Theoretical Foundations of Nursing course (N308) provides a basis for nursing theory analysis and application to practice. Further application occurs in the specialty offerings subsequent to the foundation course.

Students address the nature and concerns of the profession in Issues and Strategies in Nursing and Health Care (N374), a course in which students identify forces affecting nursing and health care and design strategies for change.

Research Courses. 9 semester hours

The research component includes 6 hours of required courses in research methods (Nursing 375 and 376) and 3 hours of thesis, master's project, directed study in research, or another approved course. Completion of this component allows the student to demonstrate having met the Program Goals in research (Numbers 2, 3, and 5).

The M.S.N. program offers the following four options for completing the terminal degree requirement:

1. *Master's Thesis (379)*. The student who wishes to pursue a thesis must negotiate for a thesis experience with faculty members engaged in research and select a question related to the student's specialty and the faculty sponsor's ongoing research program. Analysis of data already collected, or execution of small components or extensions of a faculty project, is appropriate for thesis work. The student selects a three-member committee for assistance with the thesis.

2. *Master's Project (377)*. This project allows the student to demonstrate creative problem solving and critical thinking in an approach to a problem in advanced practice. Thus, depending on the nature of the problem, the master's project may take the form of a major paper focusing on a problem in advanced practice; an extensive patient care protocol with documentation; an audiovisual patient-teaching program; or an analysis of current policies or regulations impinging on a health problem, with recommendations for change at the microsystem or macrosystem level.

3. *Directed Study-Research (373)*. This option requires completion of directed study devoted to research activities. Like the thesis option, this course must be negotiated with a faculty member engaged in research and must be done in conjunction with ongoing faculty research. Learning objectives, learning activities, criteria for evaluation, and the work to be

evaluated must be negotiated with and agreed upon by the major adviser and documented on a Directed Study Approval form.

4. *Approved Course.* Selected courses have been approved for meeting the terminal degree requirement. Approved courses may be offered by the School of Nursing, the Graduate School, or another professional school at Vanderbilt. The curriculum committee approves courses as requested by faculty members or students. N390, Dimensions of Scholarly Exposition, is approved to meet the terminal degree requirement.

Specialty Courses. 21–24 semester hours

This portion of the master's program consists of didactic and practicum courses in a selected specialty. The didactic courses cover advanced nursing content; the practicum courses place the student in the advanced practice role of clinical nurse specialist, nurse practitioner, or nurse administrator. For detailed information about specialty courses, see the section on Graduate Curriculum and the appropriate course descriptions.

Electives. 0–3 semester hours

Students select electives of interest, based on their professional goals. Options include courses related to the clinical specialty, teaching, or management. Courses available in the School of Nursing, the School of Medicine, Owen Graduate School of Management, Peabody College, and the Graduate School allow nursing students to interact with other professional and graduate students.

Specialist Nursing Curriculum

Foundation Courses

| | | |
|-----|--|---------|
| 308 | Theoretical Foundations of Nursing | 3 |
| 374 | Issues and Strategies in Nursing and Health Care | 3 |
| | | <hr/> 6 |

Research Courses

| | | |
|-----|---|---------|
| 375 | Research Methods I | 3 |
| 376 | Research Methods II | 3 |
| | Thesis, Master's Project, Independent Study in Research or approved course (Nursing Administration Students: Thesis or Program Evaluation Course) | 3 |
| | | <hr/> 9 |

Specialty Courses

Adult (Acute/Critical Care)

| | | |
|-------------|---|-----------|
| 306 | Physiologic Foundations of Nursing | 3 |
| 340 | • Theoretical Foundations of Adult Health | 4 |
| 341 | • Psychosocial Foundations of Adult Health | 2 |
| 342 | • Practicum in Adult Health Nursing I | 3 |
| 343 | • Practicum in Adult Health Nursing II | 3 |
| 345a | • Theoretical Foundations of Acute/Critical Care Nursing I | 3 |
| 345b | • Theoretical Foundations of Acute/Critical Care Nursing II | 3 |
| | Elective | 3 |
| | | 24 |

Adult (Chronic Care)

| | | |
|-------------|--|-----------|
| 306 | Physiologic Foundations of Nursing | 3 |
| 340 | • Theoretical Foundations of Adult Health | 4 |
| 341 | • Psychosocial Foundations of Adult Health | 2 |
| 342 | • Practicum in Adult Health Nursing I | 3 |
| 343 | • Practicum in Adult Health Nursing II | 3 |
| 344a | • Theoretical Foundations of Chronic Care Nursing I | 3 |
| 344b | • Theoretical Foundations of Chronic Care Nursing II | 3 |
| | Elective | 3 |
| | | 24 |

Child-Adolescent

| | | |
|-------------|--|-----------|
| 304a | • Child and Adolescent Developmental and Physical Assessment | 2 |
| 306 | Physiologic Foundations of Nursing | 3 |
| 311 | • Theoretical Foundations of Child and Adolescent Nursing I | 2 |
| 312 | • Theoretical Foundations of Child and Adolescent Nursing II | 4 |
| 313 | • Practicum in Child and Adolescent Nursing I | 3 |
| 314 | • Practicum in Child and Adolescent Nursing II | 4 |
| | Elective | 6 |
| | | 24 |

Family Nurse Practitioner

| | | |
|-------------|--|-----------|
| 304a | • Child and Adolescent Developmental and Physical Assessment | 2 |
| 305 | • Theoretical Foundations of Family Counseling and Parent Education | 3 |
| 306 | Physiologic Foundations of Nursing | 3 |
| 307 | • Clinical Pharmacology for Primary Care | 2 |
| 360 | • Theoretical Foundations of Child and Adolescent Primary Care Nursing | 2 |
| 361 | • Theoretical Foundations of Adult Primary Care Nursing | 3 |
| 362 | • Practicum in Primary Health Care of the Child and Adolescent | 2 |
| 363 | • Practicum in Primary Health Care of the Adult | 3 |
| 364 | • Preceptorship | 4 |
| | | 24 |

Gerontological Nurse Practitioner

| | | |
|------------|---|---|
| 306 | Physiologic Foundations of Nursing | 3 |
| 307 | • Clinical Pharmacology for Primary Care | 2 |
| 320 | • Theoretical Foundations in Health Care Management of the Aged | 3 |
| 321 | • Psychosocial Aspects of Aging | 3 |

| | | |
|------------|---|-----------|
| 322 | • Practicum in Aged Health Care I | 3 |
| 323 | • Practicum in Aged Health Care II | 3 |
| 324 | • Preceptorship | 4 |
| 361 | • Theoretical Foundations in Adult Primary Care Nursing | 3 |
| | | <u>24</u> |

Neonatal Critical Care (not offered until 1991/92)

| | | |
|-------------|---|-----------|
| 304b | Neonatal/Infant Assessment | 3 |
| 310 | Developmental Physiology | 3 |
| 316 | Theoretical Foundations of Neonatal/Infancy Nursing I | 3 |
| 317a | Theoretical Foundations of Neonatal Critical Care Nursing | 3 |
| 318a | Neonatal Critical Care Practicum | 6 |
| 319 | Neonatal/Infant Preceptorship | 3 |
| | Elective | 3 |
| | | <u>24</u> |

Neonatal/Infancy

| | | |
|-------------|--|-----------|
| 304b | Neonatal/Infant Assessment | 3 |
| 310 | Developmental Physiology | 3 |
| 316 | Theoretical Foundations of Neonatal/Infancy Nursing I | 3 |
| 317b | Theoretical Foundations of Neonatal/Infancy Nursing II | 3 |
| 318b | Neonatal/Infancy Practicum | 6 |
| 319 | Neonatal/Infancy Preceptorship | 3 |
| | Elective | 3 |
| | | <u>24</u> |

Nursing Administration

| | | |
|------------|---|-----------|
| 380 | • Theoretical Foundations of Nursing Administration I | 3 |
| 381 | • Theoretical Foundations of Nursing Administration II | 3 |
| 385 | • Health Care Financial Management | 3 |
| 387 | • Health Law, Policy, and Labor Relations | 3 |
| 389 | • Health Care Analysis | 3 |
| | Students select a course in each Content Area: | |
| | • Organizational Culture or other course option (Peabody) | 3 |
| | • Organizational Theory and Behavior (Peabody) | 3 |
| | • Personnel Management/Labor Relations (Peabody or Owen) | 3 |
| | | <u>24</u> |

Perinatal

| | | |
|------------|---|-----------|
| 306 | Physiologic Foundations of Nursing | 3 |
| 330 | • Theoretical Foundations of Perinatal Nursing I | 3 |
| 331 | • Practicum in Perinatal Nursing I | 4 |
| 332 | • Theoretical Foundations of Perinatal Nursing II | 3 |
| 333 | • Practicum in Perinatal Nursing II | 4 |
| 334 | • Preceptorship in Perinatal Nursing | 4 |
| | Elective | 3 |
| | | <u>24</u> |

Psychiatric–Mental Health (Adult)

| | | |
|-------------|---|-----------|
| 350 | • Theoretical Foundations of Psychiatric–Mental Health Nursing I | 2 |
| 351b | • Practicum in Adult Psychiatric–Mental Health Nursing I | 2 |
| 352 | • Neurophysiological Foundations of Psychiatric–Mental Health Nursing | 2 |
| 353b | • Theoretical Foundations of Adult Psychiatric–Mental Health Nursing I | 2 |
| 354 | • Theoretical Foundations of Psychiatric–Mental Health Nursing II | 2 |
| 355b | • Theoretical Foundations of Adult Psychiatric–Mental Health Nursing II | 2 |
| 356b | • Practicum in Adult Psychiatric–Mental Health Nursing II | 3 |
| 357 | • Theoretical Foundations of Psychiatric–Mental Health Nursing III | 3 |
| 358b | • Practicum in Adult Psychiatric–Mental Health Nursing III | 3 |
| | Elective | 3 |
| | | 24 |

Psychiatric–Mental Health (Child/Adolescent)

| | | |
|-------------|--|-----------|
| 350 | • Theoretical Foundations of Psychiatric–Mental Health Nursing I | 2 |
| 351a | • Practicum in Child/Adolescent Psychiatric–Mental Health Nursing I | 2 |
| 352 | • Neurophysiological Foundations of Psychiatric–Mental Health Nursing | 2 |
| 353a | • Theoretical Foundations of Child/Adolescent Psychiatric–Mental Health Nursing I | 2 |
| 354 | • Theoretical Foundations of Psychiatric–Mental Health Nursing II | 2 |
| 355a | • Theoretical Foundations of Child/Adolescent Psychiatric–Mental Health Nursing II | 2 |
| 356a | • Practicum in Child/Adolescent Psychiatric–Mental Health Nursing II | 3 |
| 357 | • Theoretical Foundations of Psychiatric–Mental Health Nursing III | 3 |
| 358a | • Practicum in Child/Adolescent Psychiatric–Mental Health Nursing III | 3 |
| | Elective | 3 |
| | | 24 |

Psychiatric–Mental Health (Geropsychiatric)

| | | |
|-------------|---|-----------|
| 350 | • Theoretical Foundations of Psychiatric–Mental Health Nursing I | 2 |
| 351c | • Practicum in Geropsychiatric–Mental Health Nursing I | 2 |
| 352 | • Neurophysiological Foundations of Psychiatric–Mental Health Nursing | 2 |
| 353c | • Theoretical Foundations of Geropsychiatric–Mental Health Nursing I | 2 |
| 354 | • Theoretical Foundations of Psychiatric–Mental Health Nursing II | 2 |
| 355c | • Theoretical Foundations of Geropsychiatric–Mental Health Nursing II | 2 |
| 356c | • Practicum in Geropsychiatric–Mental Health Nursing II | 3 |
| 357 | • Theoretical Foundations of Psychiatric–Mental Health Nursing III | 3 |
| 358c | • Practicum in Geropsychiatric–Mental Health Nursing III | 3 |
| | Elective | 3 |
| | | 24 |





Pre-Nursing Studies

FRESHMAN students interested in nursing at Vanderbilt apply for admission to either the College of Arts and Science or Peabody College and indicate that pre-nursing is their intended program of studies. In addition to their faculty advisers in the College of Arts and Science or Peabody College, pre-nursing students will be assigned advisers in the School of Nursing to assist them in planning their program of studies.

Qualified students are admitted to the Master of Science in Nursing Bridge program upon completion of 72 prerequisite hours or after earning a baccalaureate degree at Vanderbilt. Students are encouraged to write or call the Director of Marketing and Enrollment, 104 Godchaux Hall, (615) 322-3800 for further details of the program.

Pre-Nursing Studies in the College of Arts and Science

Pre-nursing students in the College of Arts and Science may either (a) complete the three-year bachelor's program offered by the College and apply for admission to the School of Nursing upon completion of the degree or (b) complete 72 hours of prerequisite courses and apply for admission to the School of Nursing for either their junior or their senior year. Under either option, students must satisfy admission requirements for the M.S.N. program. Upon admission to the School of Nursing, the student will complete six semesters (two calendar years) of full-time study to earn the M.S.N.

Students selecting the three-year program are referred to the appropriate section of the *Undergraduate Catalog* for details of the program. These students must complete the degree requirements in the College as well as prerequisite courses for admission to the School of Nursing. A sample curriculum plan for a major in psychology and completion of pre-nursing courses is outlined below, but students are not limited in their choice of major. They must, however, plan their program of studies carefully with their advisers in both the College of Arts and Science and the School of Nursing.

**Sample Curriculum (Arts and Science), Three-Year B.S. Program*
with Major in Psychology and Completion of Pre-Nursing Courses**

| FRESHMAN YEAR | | Fall | Spring | May/ Summer |
|------------------------------------|---|--------------|--------------|----------------|
| Chem 101a–101b <i>or</i> | Fundamentals of Chemistry | 4 | 4 | – |
| Chem 102a–102b <i>or</i> | General Chemistry | 4 | 4 | – |
| Math 127–128 | Probability and Statistical Inference <i>or substitute requirement (see adviser)</i> | 3 | 3 | – |
| Psych 101 | Foreign Language | 5 | 5 | – |
| English 100W | General Psychology | – | 3 | – |
| | Composition | 3 | – | – |
| | May Session elective | – | – | 3 |
| | "W" Course | – | – | 3 |
| | CPLE requirements or electives | – | – | 6 |
| | | 15 | 15 | 12 |
| SOPHOMORE YEAR | | | | |
| MBio 102a or 190 | Molecular Biology | 3–4 | – | – |
| | History and Culture | 3 | 6 | – |
| | Science and the World | – | 3 | – |
| | "W" Course | 3 | – | – |
| N160 | Social Science | – | 3 | – |
| N170 | Anatomy | 4 | – | – |
| | Physiology | – | 4 | – |
| | Humanities | 3 | – | 6 |
| | Psych or elective | – | – | 3 |
| | May Session course | – | – | 3 |
| | | 16–17 | 16 | 12 |
| JUNIOR YEAR** | | | | |
| Psych 221 | Psychology courses | 12 | 9 | – |
| | Developmental Psychology | – | 3 | – |
| | Electives | 6 | 3–4 | – |
| | | 18 | 15–16 | – |
| | Total | | | 120 |

* By use of advanced placement and/or credit by examination, students may receive credit for as much as one academic year.

** Students apply for admission to the School of Nursing during their junior year.

Sample Curriculum for Completion of M.S.N.

| SENIOR YEAR | | Fall | Spring | May/ Summer |
|-----------------|--|-----------|-----------|----------------|
| N200 | Basic Skills | 3 | - | - |
| N201 | Conceptual Foundation for Nursing Practice | 4 | - | - |
| N203 | Health Assessment | 2 | - | - |
| N220 | Adult Health I | 4 | - | - |
| N231 | Nutrition | 2 | - | - |
| N204 | Dimensions of Professional Nursing | - | 2 | - |
| N230 | Maternity Nursing | - | 4 | - |
| N237 | Drug Therapy | - | 2 | - |
| N240 | Pediatric Nursing | - | 4 | - |
| N250 | Psychiatric and Mental Health Nursing | - | 4 | - |
| N254 | Law, Ethics, and Politics | - | - | 3 |
| N260 | Community Health | - | - | 4 |
| N270 | Adult Health II | - | - | 5 |
| N286 | Nursing Leadership and Management | - | - | 3 |
| | | 15 | 16 | 15 |
| FIFTH YEAR | | | | |
| N306 | Advanced Physiology | 3 | - | - |
| N308 | Nursing Theory | 3 | - | - |
| N374 | Issues and Strategies | - | 3 | - |
| N375-376 | Research Methods I and II | 3 | 3 | - |
| | Specialty Nursing Courses | 4 | 7 | 10 |
| | Thesis/Master's Project | - | - | 3 |
| | | 13 | 13 | 13 |

Pre-nursing students in the College may also elect to complete 72 hours of prerequisite courses and apply for admission to the School of Nursing in either their junior or senior year. Students choosing this option will continue on to the M.S.N. degree, bypassing a baccalaureate degree. With the M.S.N., however, students are qualified for all professional nursing careers and eligible to take the National Counsel on Licensure Examination (NCLEX) to become a registered nurse (R.N.).

A sample curriculum plan is outlined below for students who enter the School of Nursing in the fall of their junior year. At this time, all students must enter in the fall semester; spring entry is not offered.

Sample Curriculum (Arts and Science) with Entry in Fall of Junior Year*

| FRESHMAN YEAR | | Fall | Spring | May/ Summer |
|-----------------------|--|------|--------|----------------|
| Chem 101a-101b | Fundamentals of Chemistry | 4 | 4 | - |
| | <i>or</i> | | | |
| Chem 102a-102b | General Chemistry | 4 | 4 | - |
| Math 127-128 | Probability and Statistical Inference | 3 | 3 | - |
| | <i>or substitute requirement (see adviser)</i> | | | |
| | Foreign Language | 5 | 5 | - |

| | | | | |
|---------------------|--------------------|-----------|-----------|----------|
| Psych 101 | General Psychology | - | 3 | - |
| English 100W | Composition | 3 | - | - |
| | Social Science | - | - | 3 |
| | "W" Course | - | - | 3 |
| | | 15 | 15 | 6 |

SOPHOMORE YEAR*

| | | | | |
|-------------------------|--------------------------|--------------|--------------|----------|
| MBio 102a or 190 | Molecular Biology | 3-4 | - | - |
| | History and Culture | 3 | 6 | - |
| | "W" Course | 3 | - | - |
| N160 | Anatomy | 4 | - | - |
| N170 | Physiology | - | 4 | - |
| Psych 221 | Developmental Psychology | - | 3 | - |
| | Humanities | - | 3 | 6 |
| | Electives | - | 0-1 | - |
| | | 13-14 | 16-17 | 6 |

Total **72**

* Students apply for admission to the School of Nursing during the spring semester of their sophomore year.

Sample Curriculum for Completion of M.S.N.

| JUNIOR YEAR | | Fall | Spring | May/ Summer |
|-------------|--|-----------|-----------|----------------|
| N200 | Basic Skills | 3 | - | - |
| N201 | Conceptual Foundation for Nursing Practice | 4 | - | - |
| N203 | Health Assessment | 2 | - | - |
| N220 | Adult Health I | 4 | - | - |
| N231 | Nutrition | 2 | - | - |
| N204 | Dimensions of Professional Nursing | - | 2 | - |
| N230 | Maternity Nursing | - | 4 | - |
| N237 | Drug Therapy | - | 2 | - |
| N240 | Pediatric Nursing | - | 4 | - |
| N250 | Psychiatric and Mental Health Nursing | - | 4 | - |
| N254 | Law, Ethics, and Politics | - | - | 3 |
| N260 | Community Health | - | - | 4 |
| N270 | Adult Health II | - | - | 5 |
| N286 | Nursing Leadership and Management | - | - | 3 |
| | | 15 | 16 | 15 |

SENIOR YEAR

| | | | | |
|-----------------|---------------------------|-----------|-----------|-----------|
| N306 | Advanced Physiology | 3 | - | - |
| N308 | Nursing Theory | 3 | - | - |
| N374 | Issues and Strategies | - | 3 | - |
| N375-376 | Research Methods I and II | 3 | 3 | - |
| | Specialty Nursing Courses | 4 | 7 | 10 |
| | Thesis/Master's Project | - | - | 3 |
| | | 13 | 13 | 13 |

Pre-Nursing Studies at Peabody College

Pre-nursing students at Peabody College may either (a) complete a major in human development and earn both a B.S. and an M.S.N. through a senior-in-absentia program or (b) complete 72 hours of prerequisite courses and apply for admission to the School of Nursing for either their junior or their senior year. Students choosing either option must satisfy admission requirements for the M.S.N. program. Upon admission to the School of Nursing, the student is required to complete six semesters (two calendar years) of full-time study to earn the M.S.N.

Students interested in the senior-in-absentia program should refer to the section on Senior-in-Absentia in this catalog as well as to the Major in Human Development in the *Undergraduate Catalog*. Under this option, students complete their first three years of study. They apply for admission to the School of Nursing during the spring of their junior year and, upon admission, take generalist nursing courses their senior year, formally transferring to the School of Nursing in the spring semester, after completing 105 hours as Peabody students. Upon successful completion of the fall and spring semester nursing course work, students are awarded the B.S. in human development. They then continue for an additional four semesters (summer, fall, spring, and summer) to earn the Master of Science in Nursing.

A sample curriculum plan for this option is outlined below:

Sample Curriculum for Human Development Major and M.S.N.

| | | Semester hours | |
|-------------------------|---|----------------|-----------|
| | | FALL | SPRING |
| FRESHMAN YEAR | | | |
| HR 1000 | Applied Human Development | 4 | — |
| HR 1100 | Small Group Behavior | — | 3 |
| Chem 101a–101b | Fundamentals of Chemistry | 4 | 4 |
| Math 127–128 | Probability and Statistical Inference | 3 | 3 |
| Psych 101 | General Psychology | — | 3 |
| | General Curriculum Requirements | 4 | 3 |
| | | 15 | 16 |
| SOPHOMORE YEAR | | | |
| HR 1200 | Human Service Organizations | 3 | — |
| HR 1300 | Organizational Development in Human Service Systems | — | 3 |
| HR 1600 | Computing: Introduction to Applications and Issues | 3 | — |
| N160–170 | Anatomy–Physiology | 4 | 4 |
| MBio 102a or 190 | Molecular Biology | 3–4 | — |
| | General Curriculum Requirements | — | 9 |
| | | 13–14 | 16 |

JUNIOR YEAR*

| | | | |
|----------------|-------------------------------------|--------------|-----------|
| HR 2100 | Human Service Policy | 3 | — |
| HR 2201 | Systematic Inquiry I | — | 3 |
| N231 | Nutrition | 2 | — |
| | Liberal Education Core Requirements | 9 | 6 |
| | Electives | 1-2 | 3 |
| HD 2960 | Senior Thesis | — | 3 |
| | | <u>15-16</u> | <u>15</u> |

* Students apply for admission to the School of Nursing during their junior year.

SENIOR YEAR

| | | Fall | Spring | May/ Summer |
|---------------|--|-----------|-----------|----------------|
| N200† | Basic Skills | 3 | — | — |
| N201† | Conceptual Foundation for Nursing Practice | 4 | — | — |
| N203† | Health Assessment | 2 | — | — |
| N220** | Adult Health I | 4 | — | — |
| N204† | Dimensions of Professional Nursing | — | 2 | — |
| N230** | Maternity Nursing | — | 4 | — |
| N237† | Drug Therapy | — | 2 | — |
| N240** | Pediatric Nursing | — | 4 | — |
| N250** | Psychiatric and Mental Health Nursing | — | 4 | — |
| N254 | Law, Ethics, and Politics | — | — | 3 |
| N260 | Community Health | — | — | 4 |
| N270 | Adult Health II | — | — | 5 |
| N286 | Nursing Leadership and Management | — | — | 3 |
| | | <u>13</u> | <u>16</u> | <u>15</u> |

† Acceptable as related area course work for undergraduate Human Development program.

** Acceptable as undergraduate Human Development practicum/internship requirement.

The B.S. in Human Development is conferred by Peabody College at the end of the spring semester.

FIFTH YEAR

| | | | | |
|-----------------|---------------------------|-----------|-----------|-----------|
| N306 | Advanced Physiology | 3 | — | — |
| N308 | Nursing Theory | 3 | — | — |
| N374 | Issues and Strategies | — | 3 | — |
| N375-376 | Research Methods I and II | 3 | 3 | — |
| | Specialty Nursing Courses | 4 | 7 | 10 |
| | Thesis/Master's Project | — | — | 3 |
| | | <u>13</u> | <u>13</u> | <u>13</u> |

The M.S.N. is conferred by the School of Nursing at the end of the fifth year.

Pre-nursing students at Peabody who elect to complete 72 hours of prerequisite courses and enter the School of Nursing in either their junior or their senior year will continue on to the M.S.N. degree, bypassing the baccalaureate degree. With the M.S.N., however, students are qualified for all professional nursing careers and eligible to apply to the National

Council on Licensure Examination (NCLEX) to become a registered nurse (R.N.).

A sample curriculum plan is outlined below for students who enter the School of Nursing in the fall of their junior year. At this time, all students must enter in the fall semester; spring entry is not offered.

Sample Curriculum (Peabody) with Entry in Fall of Junior Year*

| FRESHMAN YEAR | | Fall | Spring | May/ Summer |
|-------------------------|---|--------------|-----------|----------------|
| HR 1000 | Applied Human Development | 4 | — | — |
| HR 1100 | Small Group Behavior | — | 3 | — |
| Chem 101a–101b | Fundamentals of Chemistry | 4 | 4 | — |
| Math 127–128 | Probability and Statistical Inference | 3 | 3 | — |
| Psych 101 | General Psychology | — | 3 | — |
| | English | 3 | 3 | — |
| | Physical Education | 1 | — | — |
| | Humanities or Elective | — | — | 3 |
| | | 15 | 16 | 3 |
| | | | | |
| SOPHOMORE YEAR* | | Fall | Spring | May/ Summer |
| HR 1200 | Human Service Organizations | 3 | — | — |
| HR 1300 | Organizational Development in Human Service Systems | — | 3 | — |
| HR 1600 | Computing: Introduction to Applications and Issues | 3 | — | — |
| N160–170 | Anatomy–Physiology | 4 | 4 | — |
| MBio 102a or 190 | Molecular Biology | 3–4 | — | — |
| | Social Science | — | 3 | — |
| | Humanities or Electives | — | 6 | 7–8 |
| | Physical Education | 1 | — | — |
| | | 14–15 | 16 | 7–8 |
| Total | | | | 72 |

* Students apply for admission to the School of Nursing during the spring semester of their sophomore year.

Sample Curriculum for Completion of M.S.N.

| JUNIOR YEAR | | Fall | Spring | May/ Summer |
|-------------|--|------|--------|----------------|
| N200 | Basic Skills | 3 | — | — |
| N201 | Conceptual Foundation for Nursing Practice | 4 | — | — |
| N203 | Health Assessment | 2 | — | — |
| N220 | Adult Health I | 4 | — | — |
| N231 | Nutrition | 2 | — | — |
| N204 | Dimensions of Professional Nursing | — | 2 | — |
| N230 | Maternity Nursing | — | 4 | — |
| N237 | Drug Therapy | — | 2 | — |

| | | | | |
|-------------|---------------------------------------|-----------|-----------|-----------|
| N240 | Pediatric Nursing | - | 4 | - |
| N250 | Psychiatric and Mental Health Nursing | - | 4 | - |
| N254 | Law, Ethics, and Politics | - | - | 3 |
| N260 | Community Health | - | - | 4 |
| N270 | Adult Health II | - | - | 5 |
| N286 | Nursing Leadership and Management | - | - | 3 |
| | | <u>15</u> | <u>16</u> | <u>15</u> |

SENIOR YEAR

| | | | | |
|-----------------|----------------------------|-----------|-----------|-----------|
| N306 | Advanced Physiology | 3 | - | - |
| N308 | Nursing Theory | 3 | - | - |
| N374 | Issues and Strategies | - | 3 | - |
| N375-376 | Research Methods I and II- | 3 | 3 | - |
| | Specialty Nursing Courses | 4 | 7 | 10 |
| | Thesis/Master's Project | - | - | 3 |
| | | <u>13</u> | <u>13</u> | <u>13</u> |

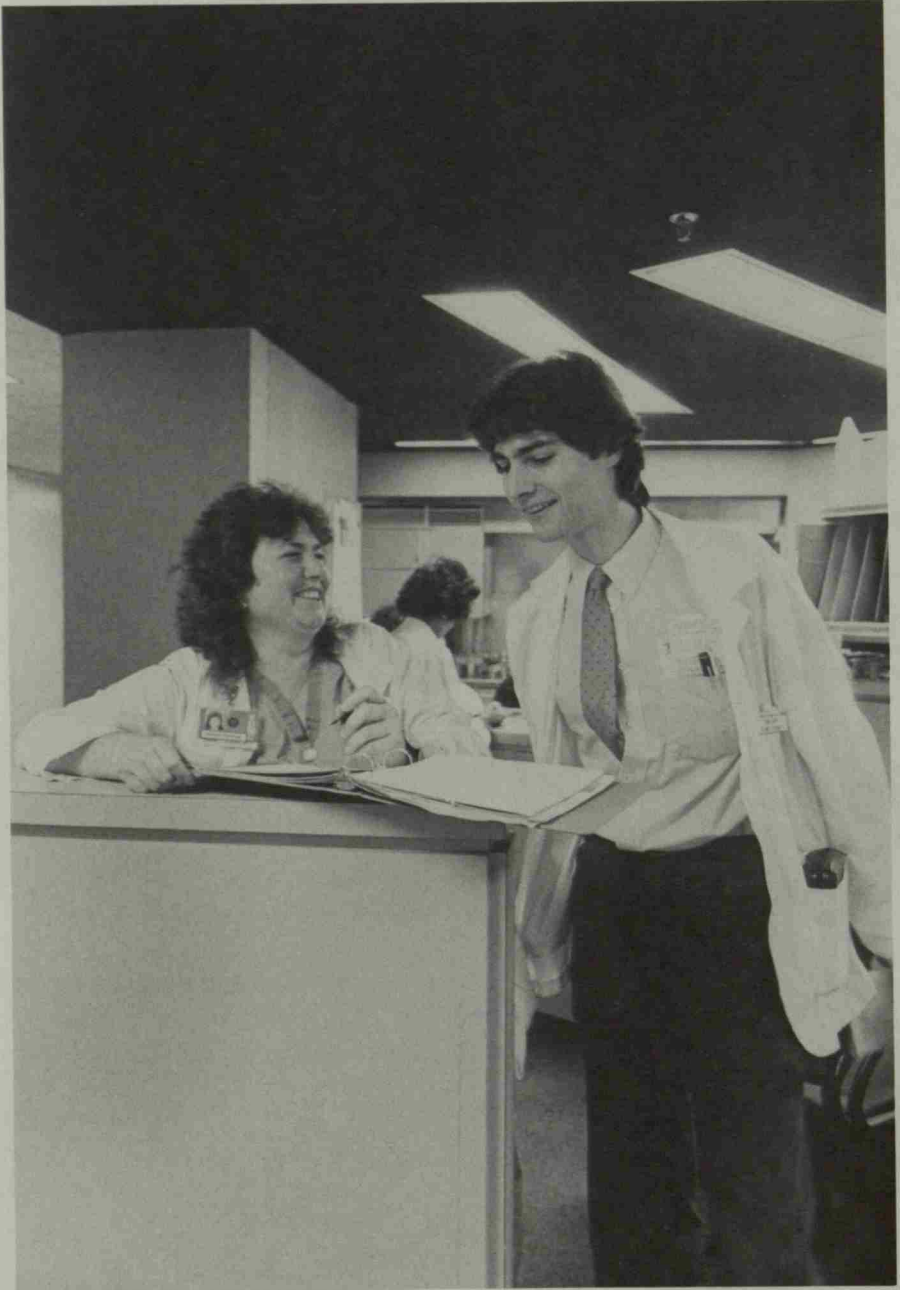
Senior-in-Absentia Programs

The School of Nursing has formalized arrangements with several liberal arts colleges to allow students to combine a baccalaureate degree in liberal arts and a Master of Science in Nursing degree. Students who complete this five-year program of study will have had the experience of dividing their academic career between a liberal arts college and the health sciences center of a major university. This unique combination of study on two differently-oriented campuses provides the student with an excellent nursing education, strongly complemented by study in the humanities, natural sciences, and social sciences.

While specific details vary in each senior-in-absentia program, these programs generally require students to spend three years at their liberal arts college, completing general curriculum requirements for the baccalaureate degree and satisfying the prerequisite courses for admission to the School of Nursing. Students apply for admission to the School of Nursing in the spring semester of their junior year. If accepted, the student enrolls at Vanderbilt in the fall semester of the senior year. After successfully completing the fall and spring semesters of generalist nursing courses at Vanderbilt, the student is awarded a baccalaureate degree from his or her undergraduate school. The student then continues for an additional four semesters (summer, fall, spring, summer) to earn a Master of Science in Nursing from Vanderbilt University.

At the time of publication, senior-in-absentia programs have been formalized with Belmont College, David Lipscomb University, Fisk University, Trevecca Nazarene College, and Vanderbilt University's Peabody College, all in Nashville, Tennessee; as well as Mary Baldwin College in Staunton, Virginia; Randolph-Macon Woman's College in Lynchburg, Virginia; and Wheaton College in Wheaton, Illinois. Please call or write the

Director of Marketing and Enrollment, 104 Godchaux Hall, Vanderbilt University, Nashville, Tennessee 37240, (615) 322-3800, for further details.





Study beyond the Master's Degree

THE purpose of the post-master's studies program is to provide, for nurses who already hold a master's degree in nursing, an educational route to specialization in an area other than that obtained in their master's program. The program is designed to strengthen or broaden the clinical, teaching, or administrative capabilities of master's-prepared nurses who are planning a role expansion or role change.

Admission Requirements

1. A master's degree in nursing from an NLN-accredited program.
2. Completed application and official transcript documenting conferral of master's degree in nursing.
3. Current Tennessee nursing license (not required for nursing education program).
4. Requirements regarding letters of reference, nursing experience, interview, and prerequisite courses vary according to the area of specialization. Call the Director of Marketing and Enrollment, (615) 322-3800, for further details.

Nursing Education

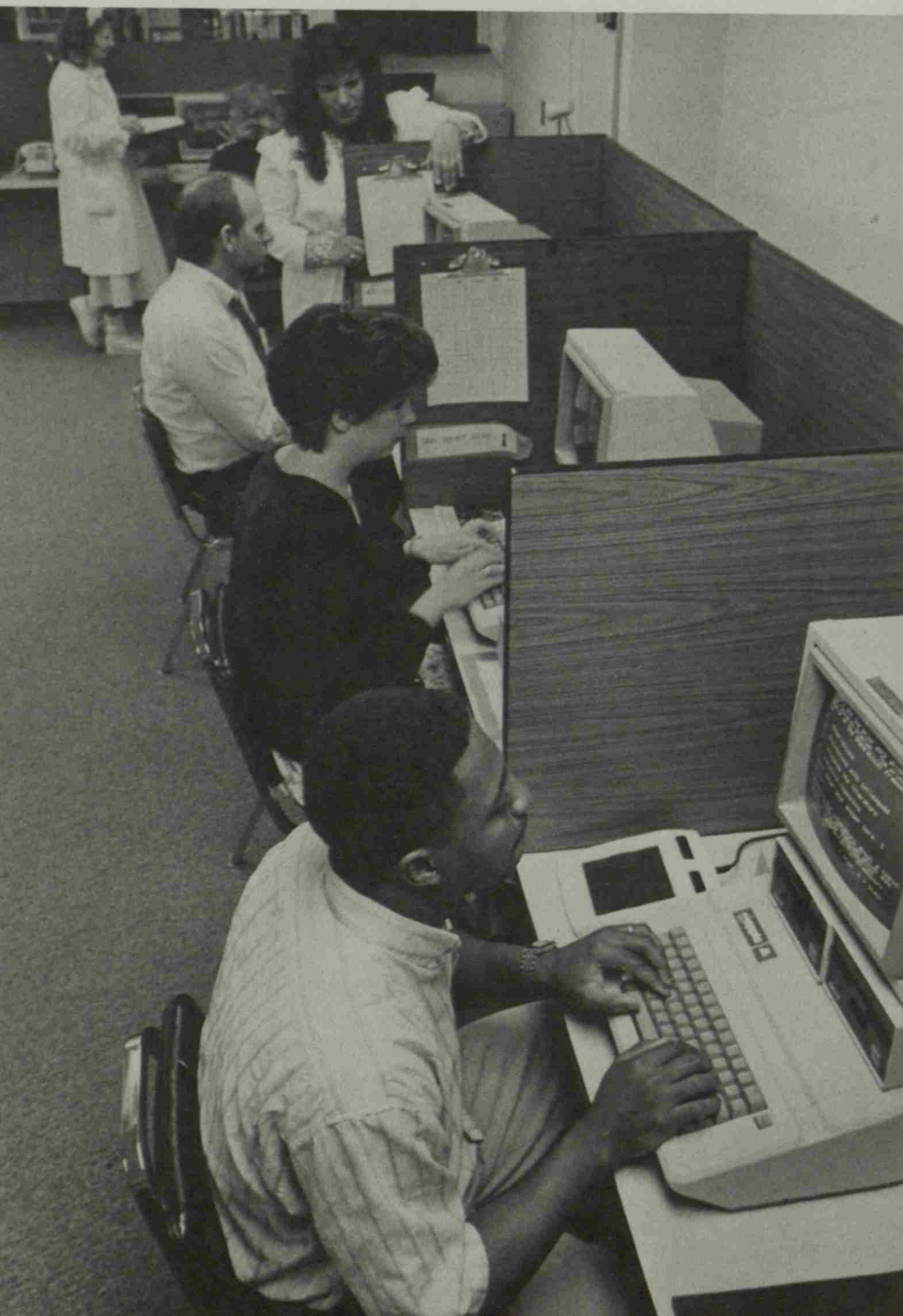
The purpose of this 12-credit advanced level program is to provide the opportunity to study those educational concepts and principles applicable to the nurse faculty role in higher education. The three objectives of the program are to prepare the learner to (a) participate effectively in the curriculum-building process, (b) design a course of study based on learning principles, and (c) analyze the nurse faculty role in higher education.

Two of the four courses will be offered each summer. The four-course curriculum includes N301, Curriculum Development in Nursing; N302, Instructional Design; a selected relevant course in another school of the University; and N370, Independent Study on a selected nursing education project. Upon completion of the 12 credit hours students will receive a transcript of courses taken; those with a grade of *B* or better in each course will receive a certificate of completion.

Advanced Practice Roles

Post-master's study programs are available in all specialties. Please refer to the advanced practice specialties curriculum for sample curri-

culum plans. For further information, call the Admissions Office at (615) 322-3800.



Courses of Study



Explanation of Symbols

100-level courses satisfy prerequisites for admission.

200-level courses are generalist nursing or bridge courses for the M.S.N./M.E.O. program.

300-level courses are specialist nursing courses.

Second digit in 300-level course number indicates:

- 0—general offerings: required or elective
- 1—required or elective for Child-Adolescent and Neonatal/Infancy
- 2—required or elective for Gerontological Nurse Practitioner
- 3—required or elective for Perinatal
- 4—required or elective for Adult Health
- 5—required or elective for Psychiatric-Mental Health
- 6—required or elective for Family Nurse Practitioner
- 7—general offerings: required or elective
- 8—required or elective for Nursing Administration
- 9—general offerings: required or elective

The University reserves the right to change the arrangement or content of courses, to change the texts and other materials used, or to cancel any course on the basis of insufficient enrollment or for any other reason.

Pre-Nursing Courses

160. Human Anatomy. An introduction to the structure of the human organism, with a regional approach in laboratory and a gross functional systematic approach in lecture. Emphasis is on gross structure with introduction to cellular and tissue composition of organs and clinical relevance. Three lectures and one three-hour laboratory period each week. Prerequisite: sophomore standing. FALL. [4] Ms. Aulsebrook and staff.

170. Human Physiology. An introduction to the function of human organ systems with emphasis on the correlation of function with cellular and tissue composition of major organs. Four lectures each week. Prerequisite: sophomore standing. SPRING. [4] Ms. Aulsebrook and staff.

231. Introduction to Nutritional Health. Introduces the student to the role of nutrition in health and illness across the life span. FALL. [2] Ms. Grimes.

236. Principles of Growth and Development throughout the Life Span. A didactic course focusing on principles of growth and development, beginning with conception and ending with death. Emphasis is on normal states of cognitive, psychological, social, and biological development. The individual will be studied as a member of a larger social unit such as a

family or community. This knowledge serves as a foundation for the practice of health care providers. Health issues related to particular age stages will be identified. [3] (Not offered 1990/91. Other courses that fulfill this requirement are Psychology 221, Human Resources 1000, Psychology 1610, and Psychology 2690.)

Generalist Nursing Courses and Electives

200. Basic Nursing Skills. An opportunity to learn and practice nursing techniques in a simulated patient care area. Students should acquire the manual ability and theoretical knowledge to perform common nursing skills safely and accurately, and comfortably for the patient. Printed material, multimedia resources, lectures, and supervised and independent practice are provided. FALL. [3] Ms. Daddario and staff.

201. Conceptual Foundations of Nursing. Introduces the nursing paradigm and focuses on core theoretical frameworks to explain common biopsychosocial responses to alterations in health. Nursing research is introduced as a process for identifying nursing problems and testing interventions. FALL. [4] Ms. Sweeney.

203. Health Assessment. An introductory course, seven-week module, focusing on understanding health assessment as an essential process basic to nursing. Emphasis is on knowledge and techniques. FALL. [2] Ms. Sastry.

204. Dimensions of Professional Nursing. A focus on the evolution of nursing as a health care profession and discipline. SPRING. [2] Ms. Donaldson.

220. Health Promotion of the Adult I. A seven-week module focusing on the nurse's role in health promotion and maintenance, illness care, and rehabilitation of adult patients with common major health problems. The use of current nursing research and theory in solving clinical practice problems is emphasized. Corequisite or prerequisite: 200 and 201. Prerequisite: 203. FALL, SPRING. [4] Ms. Bess and staff.

230. Health Promotion during the Childbearing Experience. A seven-week module focusing on the nurse's role in health promotion during the childbearing experience. The focus is on developing the ability to apply the nursing process to women, infants, and their families in the context of family-centered maternity care. The use of current nursing research and theory in solving clinical practice problems is emphasized. Corequisite or prerequisite: 200 and 201. Prerequisite: 203. FALL, SPRING. [4] Ms. Macey and staff.

231. Introduction to Nutritional Health. Introduces the student to the role of nutrition in health and illness across the life span. FALL. [2] Ms. Grimes

236. Principles of Growth and Development throughout the Life Span. A didactic course focusing on principles of growth and development, beginning with conception and ending with death. Emphasis is on normal states of cognitive, psychological, social, and biological development. The individual will be studied as a member of a larger social unit such as a family or community. This knowledge serves as a foundation for the practice of health care providers. Health issues related to particular age stages will be identified. [3] (Not offered 1990/91. Other courses that fulfill this requirement are Psychology 221, Human Resources 1000, Psychology 1610, and Psychology 2690.)

237. Drug Therapy. An introduction to pharmacological knowledge, providing a basis for understanding the therapeutic use of drugs in health care. Presents the major drug classifi-

cations, with prototypes from each group, to provide a framework for continued study and integration of new drug information. Includes the role of the nurse in drug therapy. Emphasis on drugs frequently encountered in the practice of nursing. FALL, SPRING. [2] Ms. Sastry.

240. Health Promotion of the Child. A seven-week module focusing on the nurse's role in promoting the health of children with common health problems through adolescence. The student will develop the ability to practice health promotion of the child and family, utilizing the nursing process. The use of current nursing research and theory in solving clinical practice problems is emphasized. Corequisite or prerequisite: 200, 201, and 236. Prerequisite: 203. FALL, SPRING. [4] Ms. Read and staff.

241. Courses Offered Jointly with the School of Medicine. Schedule of courses available in the School of Nursing Registrar's Office. Prerequisite: consent of the instructor. FALL, SPRING. [Variable credit]

250. Psychiatric and Mental Health Nursing. Focuses on psychiatric and mental health needs of clients and families across the life span. Includes deriving individual, family, and milieu-oriented interventions from selected theoretical frameworks. Clinical experiences provide a variety of psychiatric and mental health care experiences in acute and community mental health settings. Growth of the nursing student as an individual and as a professional is emphasized through a group process component. The use of current nursing research and theory in solving clinical practice problems is emphasized. Prerequisite: 200, 201, and 203. Prerequisite or corequisite: 220, 230, and 240. SPRING, SUMMER. [4] Ms. Bigler and staff.

251. Independent Study: Non-Clinical. A program of independent study with active participation in either research or written reviews of special topics under direction of a faculty sponsor. A contract is made between the student and the sponsor, with copies for the student, the sponsor, the department chair, and the student's record. FALL, SPRING, SUMMER. [Variable credit: 1-6 hours each semester]. Staff.

252. Nursing Care of the Patient Experiencing Cardiac Dysrhythmias. Provides the tools to interpret basic cardiac arrhythmias. Major focus will be on recognition of the signs and symptoms of each rhythm disturbance and the treatment of each. Health care teaching is also included. The course is a foundation for interpretation of advanced arrhythmias and 12-lead EKG readings. Prerequisite: 220 or RN. FALL, SPRING. [2] Ms. Sweeney.

253. Assertiveness for the Nurse. This didactic course defines assertiveness and explores issues related to the use of assertive behavior in nursing practice and education. Includes role playing of situations in which assertive behavior would facilitate communication. SPRING. [1] Staff.

254. Law, Ethics, and Politics in Nursing. This course focuses on the legal and political systems and their impact on health care and nursing practice. Ethical decision making, a component of the discipline of nursing, is explored through case analyses and examination of student value systems. Analytical thinking in relation to legal, ethical, and political issues is emphasized and the concept of individual rights in the health care system is stressed. Emphasis is also placed upon effective communication within the political and legal systems to encourage a proactive stance for nursing in relation to delivery of health care. SPRING, SUMMER. [3] Ms. Laben.

260. Community Health Nursing. An introduction to the scope and practice of community health nursing. Emphasizes community health nursing as an integral part of organized efforts to promote and maintain the health of individuals, families, and groups at risk for illness, disability, or premature death. The epidemiological process and the nursing process serve

as the organizing framework for interventions in the community. Social, cultural, economic, environmental, and ethical issues related to community health nursing are explored. Prerequisites or corequisites for non-RN students: 220, 230, 231, 236, 237, 240, and 250. Prerequisites or corequisites for RN students: 220, 230, 231, 236, 237, and 240. FALL, SPRING, SUMMER. [4] Mr. Lindsay and staff.

261. Independent Study: Clinical. A program of study in a selected area under direction of a faculty sponsor. A contract is made between the student and the sponsor, with copies for the student, the sponsor, the department chair, and the student's record. FALL, SPRING, SUMMER. [Variable credit: 1–6 hours each semester]. Staff.

270. Health Promotion of the Adult II. Focuses on the nurse's role in health promotion and maintenance, illness care, and rehabilitation of adult patients with complex health problems. The use of current nursing research and theory in solving clinical practice problems is emphasized. Non-RN students complete a clinical practicum experience in addition to the didactic component. RN students take only the didactic component. Prerequisite: 200, 201, 203, and 220. SUMMER. [3–5] Ms. Grimes.

286. Introduction to Nursing Leadership and Management. Designed to provide students with a conceptual understanding of leadership and management processes. Students apply didactic content related to leadership styles and administrative challenges through a group process component. The course also discusses evaluative and controlling functions of nurse managers such as conflict management and the utilization of computer systems. FALL, SUMMER. [3] Ms. Sinclair.

291. Strategies for Teaching Patients. Explores concepts and principles inherent in planning effective teaching of patients, individually or in groups. SPRING. [2] Ms. Donaldson.

294. Introduction to Movement Therapy. Introduces the use of dance/movement as therapy. Includes the theoretical basis of the therapeutic process, assessment of movement for diagnostic or remedial purposes, and dance therapy strategies used with individuals or groups. Movement therapy is studied through the use of films, readings, lectures, case material, and experiential sessions. SPRING. [2] Maureen Needham Costonis, Assistant Professor of Dance History.

296. Methods of Health Assessment. For RN's only. Basic principles and techniques of data collection through patient health history, developmental assessment, and physical examination. Emphasizes knowledge of physiological and pathophysiological processes related to findings. Data collection skills are developed in laboratory practice. SUMMER. [2] Staff.

Specialist Nursing Courses and Electives

301. Curriculum Development in Nursing. An exploration of the major influences on curriculum formation, the inherent issues and trends, and the process of curriculum development. SUMMER. [3] Ms. Donaldson.

302. Instructional Design. The systematic matching of learning strategies and learning assessment tools with objectives to plan a course of study. SUMMER. [3] Ms. Donaldson.

304a. Child and Adolescent Developmental and Physical Assessment. Didactic and clinical course that focuses on the principles of growth and development of infants and children through adolescence. Skills of developmental and physical assessment are acquired

in the course. Prerequisite: Physical Assessment (Adult) course. FALL. [2] Ms. Busby and staff.

304b. Neonatal/Infant Assessment. Elements of neonatal and infant assessments are critically examined conceptually and clinically for validity and practical applicability. Diverse clinical experiences are used in focusing on proficiency skills in history taking, health assessment techniques, and beginning level primary care management of well neonates and infants. Variations in advanced practice nursing roles and the collaborative effort required to be effective in multiple settings are addressed. Synthesizing a systematic health assessment that is sensitive to growth and developmental needs and provides the most pertinent data with least risk to the neonate/infant is emphasized. Prerequisite: Admission to the specialty. FALL. [3] Ms. Pressler.

305. Theoretical Foundations of Family Counseling and Parent Education. A focus on the theoretical basis for promoting health and well-being in the family and among its members. Theories of family development are considered along with theoretical concepts from family dynamics. Family systems assessment, interactional patterns, parent education, and intervention with families are major areas of study. FALL, SPRING. [3] Ms. Caldwell.

306. Physiologic Foundations of Nursing. The essentials of normal physiological processes are presented in lecture. FALL, SPRING. [3] Ms. Aulsebrook.

307. Clinical Pharmacology for Primary Care. The pharmacologic effects and clinical uses of specified drug groups as related to primary health care. Pharmacological mechanisms in association with drug interactions, incompatibilities, side effects, contraindications, and patient education discussed as a basis for clinical judgments in the nursing management of individual clients. Meets the State Board of Nursing requirements for pharmacology for nurse practitioners whose work requires them to generate prescriptions. SPRING. [2] Ms. Caldwell.

308. Theoretical Foundations of Nursing. An overview and rationale for theory analysis and use in systematic practice. An introduction to professional nursing practice, including the multiple roles of clinical specialists, practitioners, and administrators. Also discussed are the historical evolution of theories in nursing; conceptual models in nursing; and a comparison of models, approaches to theory analysis, and problems in the application of theory. FALL, SPRING. [3] Ms. Hindle.

309. Behavioral Health. Application of behavioral and biomedical science to maintenance of health and prevention of illness. Open to students throughout the University. A project is required. FALL. [3] Mr. Wallston.

310. Developmental Physiology. Presents a concise account of human developmental processes. Emphasizes normal developmental morphology and physiology and relation of certain diseases to physiologic phenomena at various developmental stages. Attempts to bridge the gap between embryologic structures and mature physiologic functioning and anatomy. Describes causes of congenital malfunctions within each organ system. [3] Staff. (Not offered 1990/91)

311. Theoretical Foundations of Child and Adolescent Nursing I. A focus on the theoretical basis for child development, emphasizing the development of the child as an individual within the context of family and society. Considers factors and techniques that facilitate or interfere with healthy development, as well as issues in developmental assessment and consultation. Students will develop competence in developmental screening and in promoting positive child development through child and parent education and counseling. Prerequisite or corequisite: 308, 375. FALL. [2] Ms. LaMontagne and staff.

312. Theoretical Foundations of Child and Adolescent Nursing II. A focus on the nursing care of ill children. Includes embryonic development, developmental physiology, and pathology, as well as nursing interventions for children of all ages. Emotional components of care will be considered for children and their families, building upon knowledge developed in 311. An in-depth study of a content area of the student's choice will be required. Prerequisite: 305, 306, 311. SPRING. [4] Ms. LaMontagne and staff.

313. Practicum in Child and Adolescent Nursing I. Emphasis on development of the clinical specialist roles of practitioner, teacher, and collaborator in providing care. Students define individual interests and write individual objectives for their clinical experiences, write short papers on selected nursing problems, and apply nursing theory to patient care. Prerequisite: 305, 306, 311. Prerequisite or corequisite: 312. SPRING. [3] Ms. LaMontagne and staff.

314. Practicum in Child and Adolescent Nursing II. Building upon previous course work, students add the clinical specialist roles of manager, researcher, and change agent in a setting of their choice. Prerequisite or corequisite: 313. SUMMER. [4] Staff.

316. Theoretical Foundations of Neonatal/Infancy Nursing I. Using a developmental nursing perspective, this course focuses on the theory and research related to the health status and care of neonates and infants through 36 months of age. The specific aim of the course is to help students structure their thinking about neonatal/infant health promotion, primary prevention of illness, and health maintenance. Students are expected to then use this knowledge as a basis for developing understanding of infant well-being and, subsequently, the nursing practice corresponding to it. Knowledge synthesized from this course will provide an essential working foundation for future neonatal/infancy nursing course work. Prerequisite: Admission to the specialty. FALL. [3] Ms. Pressler.

317a. Theoretical Foundations of Neonatal Critical Care Nursing. Advanced concepts of pathophysiology and therapeutic approaches to managing critically ill and recovering neonates. Integrates previous knowledge of embryology, physiology, and pathophysiology, as well as psychosocial needs of neonates and their families. Includes analysis and interpretation of laboratory data and radiologic findings, case presentations, collaborating with other health care professionals, and family counseling. Content is closely coordinated with that covered in Neonatal Critical Care Practicum. Prerequisites: 304b and 316. Corequisite: 318a. [3] Staff. (Not offered 1990/91)

317b. Theoretical Foundations of Neonatal/Infancy Nursing II. Using a developmental perspective, this course focuses on theory and research forming the basis for assessment and restorative care of ill neonates and infants through 36 months of age. Discussions of advanced pathophysiologic concepts focuses on clinical manifestations, nursing diagnosis, and the application of various nursing strategies and interventions. Applying a case study approach to planning and managing care for neonates/infants, examining how an understanding of change theory can be used to direct more expeditious and effective revisions in nursing practice, and the influence that environmental variables have on critically ill infants' response patterns are stressed. Addressing family needs in a comprehensive and robust way is an integral part of the overall plan for infant health delivery. Prerequisites: 304b and 316. SPRING. [3] Ms. Pressler.

318a. Neonatal Critical Care Practicum. Applied science laboratory and Level III clinical experiences with neonatologists and neonatal critical care nurse practitioners. Diverse and repeated opportunities to learn skills and decision making necessary in the therapeutic management of ill and recovering neonates. Includes resuscitation, stabilization, and transport skills, as well as daily and routine management. Emphasis of care is on early diagnosis,

treatment, and prevention of complications and disabilities. Prerequisites: 304b and 316. [6] Ms. Pressler. (Not offered 1990/91)

318b. Neonatal/Infancy Practicum. Clinical practicum/conferences provide opportunities for developing advanced skills in the nursing care of critically ill and recovering neonatal/infant clients. Experiences in facilitating and evaluating continuity of care across several settings are a major thrust. Students may work collaboratively with adjunct faculty members on unit-based research projects as part of practicum. Advanced practice nursing roles and expert skills are critically examined in clinical and individual conferences. Prerequisites: 304b and 316. Note: Non-RN Bridge students must register for 2 credits in the Spring and 4 credit hours in the Summer. [6] Ms. Pressler.

319. Neonatal/Infancy Preceptorship. Intensive integration and synthesis of theory and clinical practice in Neonatal/Infancy Nursing. Individual opportunities to enact advanced practice roles. Clinical preceptorship and individual conferences provide opportunities to further develop expertise relevant to the assessment and management of groups of neonates and infants. Students may elect to take on a caseload in order to validate the outcomes of their care. Prerequisites: 327 and 318. SUMMER. [3] Staff.

320. Theoretical Foundations in Health Care Management of the Aged. Focuses on the acquisition of knowledge and skills necessary for primary health care management of elderly persons. Emphasis is on recognition of the abnormal as opposed to what is considered the normal aging process. Major disease conditions affecting the aged and their management are covered. Students learn illness prevention, health maintenance measures, and treatment regimens to meet the needs of the elderly. Identification and interpretation of common diagnostic and laboratory tests are included. A clinical component takes place in a community setting. Prerequisite or corequisite: 306. FALL. [3] Staff.

321. Psychosocial Aspects of Aging. Psychosocial theories of aging are compared and contrasted. Attitudes toward aging and the aged and factors affecting life satisfaction are explored. Changes in personality, intellectual function, and perception from middle age to old age are discussed with emphasis on comparison of normal and abnormal. Particular attention is paid to the interrelatedness of the self, family, and community, and the multidisciplinary organization and delivery of health services and practices. Problems of transportation, housing, finance, and medical care are identified and specific strategies for need attainment are discussed. Legislation and economic and social trends affecting the aged are included. Counseling and group therapies are discussed, and students have a community-based group component in which they co-lead elder groups. SPRING. [3] Staff.

322. Practicum in Aged Health Care I. Designed to enable students to utilize and build upon the principles of primary care. Focuses on health care of the older adult with emphasis on early detection of problems, preventive and restorative care, and management of common acute and chronic health problems. Students will be assigned to selected clients in health care facilities. Prerequisite: 306, 320, 321, 363 (may be taken concurrently). FALL, SPRING, SUMMER. [3] Staff.

323. Practicum in Aged Health Care II. Clinical experience in a primary health care setting. Students strengthen and apply the knowledge and skills necessary for health assessment and health care management of older adults. Explores the organization and delivery of health care and social services in the community. Prerequisite: 306, 320, 321, 322, 363. FALL, SPRING, SUMMER. [3] Staff.

324. Gerontological Nursing Preceptorship. A culminating clinical experience in a primary health care setting with a preceptor. Students and faculty cooperatively select clients, facilities, and preceptors. Students function with increasing independence, utilizing health care and social services in the community, and are expected to apply theory, demonstrate leadership and management skills, and focus on their role as change agent to improve quality of care to the aged. FALL, SPRING, and SUMMER. [4] Staff.

330. Theoretical Foundations of Perinatal Nursing I. Students begin to critically examine and evaluate ideas and research related to perinatal health care. The course provides the basis for advanced nursing practice with families experiencing adaptation to healthy and low risk childbearing. FALL. [3] Ms. Narrigan.

331. Practicum in Perinatal Nursing I. Students apply knowledge from N 330 to clinical care of healthy and low-risk childbearing families. Emphasis is placed on developing and refining skills in physical assessment, data collection, diagnosis, and planning and evaluating care. A wide range of clinical settings is available for individualized clinical learning. FALL. [4] Ms. Narrigan and staff.

332. Theoretical Foundations of Perinatal Nursing II. Students continue to examine issues and research in perinatal health care, concentrating on the mother and fetus at risk and on families experiencing complex health care needs during childbearing. Prerequisite: 306, 330. SPRING. [3] Ms. Narrigan.

333. Practicum in Perinatal Nursing II. Through a variety of self-directed clinical experiences, students care for families experiencing actual or potential complex health problems during childbearing. The focus will be either mother/fetus or neonate at risk. Prerequisite: 306, 330, 331. Prerequisite or corequisite: 332. SPRING. [3] Ms. Narrigan and staff.

334. Preceptorship in Perinatal Nursing. Building on all previous graduate nursing education, this course offers the opportunity to integrate knowledge and refine skills by practicing in the clinical nurse specialist role. Clinical preceptors in advanced nursing practice will guide and supervise individual students. Prerequisite: 306, 330, 331, 332, 333. SUMMER. [4] Ms. Narrigan and staff.

340. Theoretical Foundations of Adult Health. Explores the nursing process, nursing diagnoses, and pathophysiology of health changes related to vital organ systems. Students employ the nursing process in the clinical area with patients experiencing complex alterations in health. Prerequisite or corequisite: 306. FALL. [4] Mr. Lancaster and staff.

341. Psychosocial Foundations of Adult Health. Concepts from the behavioral sciences and nursing related to care of adult patients with complex health changes are examined. Prerequisite: 340 preferred but not mandatory. SPRING. [2] Mr. Lancaster.

342. Adult Health Practicum I. Clinical practice and conferences with emphasis on practice within a selected conceptual nursing framework in a selected area of concentration. Development of the roles of the clinical nurse specialist. Prerequisite: 308, 340. Corequisite or prerequisite: 344a or 345a. SPRING. [3] Ms. King and staff.

343. Adult Health Practicum II. Clinical practice and conferences enabling each student to implement the roles of the clinical nurse specialist at an advanced level in a selected area of concentration. Prerequisite: 344a or 345a. Corequisite or prerequisite: 344b or 345b. SUMMER. [3] Ms. King and staff.

- 344a. Theoretical Foundations of Chronic Care Nursing I.** Course being developed at time of publication. Prerequisite: 306, 308, 340. Corequisite or prerequisite: 342. SPRING. [3] Mr. Pace.
- 344b. Theoretical Foundations of Chronic Care Nursing II.** Continuation of 344a. Course being developed at time of publication. Prerequisite: 344a. SUMMER. [3] Mr. Pace.
- 345a. Theoretical Foundations of Acute/Critical Care Nursing I.** Focuses on advanced content related to nursing care of adult patients experiencing acute/critical alterations in health. Prerequisite: 306, 308, 340. Corequisite or prerequisite: 342. SPRING. [3] Ms. King.
- 345b. Theoretical Foundations of Acute/Critical Care Nursing II.** Continuation of 345a, Theoretical Foundations of Acute/Critical Care Nursing I. Prerequisite: 345a. SUMMER. [3] Ms. King.
- 346. Advanced Nursing Care of the Patient Experiencing Cardiac Dysrhythmias.** This elective course is designed to enable the student to assess alterations in the cardiac electrical conduction system. Focus is on rhythm disturbances and 12-lead EKG changes to provide the student with the knowledge to interpret the changes, to correlate nursing assessments, to anticipate complications, and to collaborate in the management of each patient situation. Included are axis determination, hypertrophy, myocardial infarction, electrolyte abnormalities, and excitation syndrome. FALL, SPRING. [3] Ms. Sweeney.
- 350. Theoretical Foundations of Psychiatric–Mental Health Nursing I.** Course focuses on the mastery of concepts from various theoretical perspectives, e.g., psychology, sociology, anthropology, and nursing, that form the foundation for assessment of clients and are integral to the practice of advanced psychiatric–mental health nursing. Emphasis is on the integration of selected concepts into a nursing theoretical or conceptual perspective. Lectures and small group discussions are led by clinical specialist faculty. Prerequisite or corequisite: 308, 352, and 375. FALL. [2] Staff.
- 351abc. Practicum in Psychiatric–Mental Health Nursing I.** Course provides faculty-supervised clinical experiences with selected individuals and families in outpatient settings. The student assesses, plans, implements, and evaluates sessions with a case-load of clients, with particular emphasis on the initial and working phases of the relationship. Analysis of process dynamics and nursing interventions takes place under supervision. The course provides students with the opportunity to use the concepts of N350 and N352 in clinical practice. The student will collaborate with other members of the mental health team. Prerequisite or corequisite: 350, 352, and 353 abc. FALL. [2] Staff.
- 352. Neurophysiological Foundations of Psychiatric–Mental Health Nursing.** Course presents the theoretical basis for the biologic aspects of advanced practice in psychiatric–mental health nursing. Concepts from neurophysiology and neuropsychology are examined for their applications to practice. Proficiency in conducting and recording the neurological exam is achieved. Lectures, discussion, and laboratory practice are led by faculty and expert practitioners in various areas. FALL. [2] Staff.
- 353a. Theoretical Foundations of Child and Adolescent Psychiatric–Mental Health Nursing I.** Provides the theoretical content for diagnosing, assessing, and intervening in functional and dysfunctional patterns of children, adolescents, and their families. Case material is provided for use in applying theory, practicing assessment skills, projecting interventions and evaluating outcomes. Seminar discussions are led by faculty and/or students. Prerequisite or corequisite: 350 and 352. FALL. [2] Ms. Blackburn.

353b. Theoretical Foundations of Adult Psychiatric–Mental Health Nursing I. Provides the theoretical content for diagnosing, assessing, and intervening in functional and dysfunctional patterns of adults and their families. Case material is provided for use in applying theory, practicing assessment skills, projecting interventions, and evaluating outcomes. Seminar discussions are led by faculty and/or students. Prerequisite or corequisite: 350 and 352. FALL. [2] Ms. Laben.

353c. Theoretical Foundations of Geropsychiatric–Mental Health Nursing I. Provides the theoretical content for assessing, diagnosing, and intervening in functional and dysfunctional patterns of the elderly and their families. Case material is provided for use in applying theory, practicing assessment skills, projecting interventions, and evaluating outcomes. Nursing research is discussed as a process for identifying nursing problems and testing interventions relative to the subspecialty. Seminar discussions are led by faculty and/or students. Prerequisite or corequisite: 350, 352. FALL. [2] Ms. Richie.

354. Theoretical Foundations of Psychiatric–Mental Health Nursing II. Course focuses on the mastery of concepts from group, family, consultation, management, and nursing theories that are the foundation of clinical specialist practice roles. Increasing attention is given to the indirect practice roles of consultation and management and the direct practice roles of group and family psychotherapy. Emphasis is on the integration of related theories into CNS practice and a nursing conceptual framework. Prerequisite or corequisite: 350 and 352. SPRING. [2] Ms. Laben and staff.

355a. Theoretical Foundations of Child and Adolescent Psychiatric–Mental Health Nursing II. Provides the student with a theoretical overview of various group approaches to intervention and prevention with parents and children/adolescents. Students explore a variety of group approaches in current use by investigating their philosophical and theoretical origins, their methods and techniques, and examples of their application to advanced nursing practice. Prerequisite or corequisite: 353a, 354. SPRING [2] Ms. Blackburn.

355b. Theoretical Foundations of Adult Psychiatric–Mental Health Nursing II. Provides the student with a theoretical overview of various group approaches in current use by investigating their philosophical and theoretical origins, their methods and techniques, and examples of their application to advanced nursing practice. Prerequisite or corequisite: 353b, 354. SPRING. [2] Ms. Laben.

355c. Theoretical Foundations of Geropsychiatric–Mental Health Nursing II. The course provides the student with a theoretical overview of various group approaches to intervention and prevention with the elderly and their families. Students explore a variety of group approaches by investigating their philosophical and theoretical origins, methods, and techniques and examples of their application to advanced nursing practice. Seminar discussions are led by faculty and/or students. Prerequisites or corequisites: 353c, 354. SPRING. [2] Ms. Richie.

356abc. Practicum in Psychiatric–Mental Health Nursing II. Course builds on the first advanced practicum course by expanding the student's ability to identify and apply concepts, theories, and principles to larger and more complex groups. In addition, the student gains skill in implementing planned intervention with individuals, families, and groups so that patterns in self and others are identified accurately and with regularity. Caseload management skills are further developed. Prerequisite or corequisite: 353abc, 354, and 355abc. SPRING. [3] Staff.

357. Theoretical Foundations of Psychiatric–Mental Health Nursing III. Focuses on the societal, legal, and systems factors that influence Clinical Nurse Specialist practice and the delivery of mental health services to subspecialty populations. Increased emphasis is placed on current practice issues in the subspecialty, including legal and ethical issues and the utilization of standards for the evaluation of practice. Prerequisite: 355abc. SPRING. [3] Ms. Paty and Ms. Blackburn.

358abc. Practicum in Psychiatric–Mental Health Nursing III. Provides the student with the opportunity to synthesize theory and Clinical Nurse Specialist practice roles in a selected setting. Increasing emphasis is placed on the critical analysis of clinical problems and needs of specialty populations. Prerequisite or corequisite: 356abc and 357. SUMMER. [3] Ms. Laben and staff.

360. Theoretical Foundations of Child and Adolescent Primary Care Nursing. A didactic course including the principles of primary health care and focusing on wellness, patient/family education, and management of common acute and chronic health problems of children and adolescents. The role of the nurse as primary health care provider is emphasized. FALL. [2] Ms. Busby.

361. Theoretical Foundations of Adult Primary Care Nursing. A didactic course including the principles of primary health care, focusing on wellness, patient education, and management of common and chronic health problems of adults. The role of the nurse as primary health care provider is emphasized. FALL. [3] Ms. Caldwell.

362. Practicum in Primary Health Care of the Child and Adolescent. Focuses on the physical and psychosocial aspects of health from infancy through adolescence, with emphasis on wellness, management of common health problems, and health education. In the clinical setting, the student applies knowledge acquired in prerequisite courses to assessment of the health status of the child or adolescent and formulation of a plan of care. Clinical conferences explore patient health problems to enhance decision-making ability. Prerequisite: 304, 306, 360. FALL, SPRING, and SUMMER. [2] Ms. Busby.

363. Practicum in Primary Health Care of the Adult. Focuses on the physical, psychological, and sociocultural aspects of adult health, with emphasis on wellness, health education, and early detection and management of common health problems of adults. In the clinical setting, the student applies knowledge acquired in prerequisite courses to assessment of the health status of the adult patient and formulation of a plan of care. Clinical conferences explore patient health problems to enhance decision-making ability. Prerequisite: 306, 361. FALL, SPRING, SUMMER. [3] Ms. Busby.

364. Family Nurse Practitioner Preceptorship. A culminating clinical experience in a primary care setting with emphasis on maintaining wellness in the individual and/or family and on formulation of a comprehensive plan of intervention when illness is experienced. Students focus on their role as a family nurse practitioner. Prerequisite: 362 and 363. FALL, SPRING, SUMMER. [4] Ms. Busby.

370. Independent Study, Non-Clinical. Content varies according to individual needs and interest. A contract is made between the student and the faculty sponsor, with copies for the student, the sponsor, the department chairman, and the student's record. [Variable credit: 1–6 each semester]

371. Independent Study, Clinical. A program of independent study in a selected area of nursing practice under direction of a faculty sponsor. A contract is made between the student

and the faculty sponsor, with copies for the student, the sponsor, the department chairman, and the student's record. [Variable credit: 1-6 each semester]

372. Courses offered jointly with the School of Medicine. Schedule of courses available in the School of Nursing registrar's office. Prerequisite: consent of the instructor. [Variable Credit]

373. Directed Study, Research. A program of study in a selected area of nursing research under direction of a faculty sponsor. A contract is made between the student and the faculty sponsor, with copies for the student, the sponsor, the department chairman, and the student's record. For this course to fulfill a terminal degree requirement, the student must have 375 as a prerequisite and 376 as a prerequisite or corequisite. [Variable credit: 1-6 each semester]

374. Issues and Strategies in Nursing and Health Care. Analysis of significant legislative and political issues that affect nursing and health care; resolutions to these issues are proposed. SPRING, SUMMER. [3] Ms. Donaldson.

375. Research Methods I. Use of scientific knowledge and methods to analyze and reformulate nursing practice problems. Emphasis on generating and testing research questions or hypotheses. Concepts of probability, sampling, measurement, and computer skills for data analysis will be applied to nursing research (lecture/laboratory). Prerequisite: An undergraduate course in elementary statistics. FALL, SPRING. [3] Mr. Wallston and staff.

376. Research Methods II. Use of scientific knowledge and methods to analyze and reformulate nursing practice problems, with emphasis on concepts of design, conceptual framework, review of literature, proposal writing, and reporting findings. Elements of research critique are sought to promote research utilization (lecture/laboratory). Prerequisite: 308 and 375. SPRING SUMMER. [3] Ms. Hindle and staff.

377. Master's Project. Topic must be related to student's specialty. Prerequisite: 375; prerequisite or corequisite: 376. [Variable credit: 1-3]

379. Thesis. Topic must be related to student's specialty. Prerequisite: 375; prerequisite or corequisite: 376. [Variable credit: 1-3]

380. Theoretical Foundations of Nursing Administration I. An introductory seminar designed to synthesize advanced concepts of organizational theories and management models for effective performance and productivity within a health care system. Role preparation of the nurse administrator is studied, with emphasis on a systems approach to leadership styles, interpersonal skills, ethical decision-making processes, strategies, and group process within a health care setting. Data base concepts are applied to selected information management problems. FALL. [3] Ms. Pilon.

381. Theoretical Foundations of Nursing Administration II. An application of a contingency model to the systematic assessment and evaluation of elements in a health care organization. The following aspects are included: external environment, purposes and goals, work structures, coordination, people and groups, and managerial technologies and processes. Students evaluate the usefulness of computer applications and information systems for improving managerial efficiency in health care settings. Prerequisite: 380. (Lecture/seminar) SPRING. [3] Ms. Pilon.

382. Health Care Marketing. Elective course designed to give an overview of marketing as it relates to the revolutionized system of health care delivery in a post-DRG environment.

Students identify and define a product, establish its price and place, and design promotional implementation strategies. SPRING. [3] Ms. Harshman.

385. Health Care Financial Management. An introduction to basic financial and accounting concepts relating to health care management. Prepares students to apply these concepts to programming, budgeting, and controlling processes in health care organizations. Topics include the sources of capital utilized by health care organizations; the cost of capital; basic accounting concepts related to income statements, balance sheets, and budgets; and current reimbursement issues related to third party payments. The differences in public, not-for-profit, and investor-owned organizations are highlighted. SPRING. [3] Ms. Sinclair.

387. Health Law, Policy, and Labor Relations. Aids the nurse administrator in delineating the area and concepts of law that affect nursing and health care delivery in various settings. A working knowledge of specific aspects of contract, tort, constitutional, administrative, and insurance law is needed to act or lead practice in the work setting and to prevent or respond appropriately to legal issues in nursing practice. The course helps the nurse administrator identify public policy and its impact on health care in organized nursing services. Public health care policy is correlated with organizational challenges and constraints, especially at the federal and state policy level. Ethical considerations, in light of law and public policy, are highlighted. (Lecture/seminar) SUMMER. [3] Ms. Betts.

389. Health Care Analysis. Focus is on the analysis, design, or evaluation of problems or issues relevant to the regulation of health care delivery systems. Carefully selected research or evaluation projects in community health care organizations offer experimental learning activities and assignments with adjunct faculty preceptors. Prerequisites: 308, 374, 375, 376, 380, 381, 385, 386, 387, Psych 315 or research option, and EDLS 3500. FALL, SPRING, SUMMER. [3] Ms. Pilon.

390. Dimensions of Scholarly Exposition. Elective course designed to improve students' abilities in scholarly writing. Each student will prepare an article and submit it to a selected nursing journal. For this course to fulfill a terminal degree requirement, the student must have completed two-thirds of the specialty content as a prerequisite. Offered on a Pass-Fail basis. Prerequisite or corequisite: 376. FALL, SPRING, SUMMER. [3] Mr. Lancaster.

391. Martha Rogers: Science of Unitary Human Beings. Course description not available at time of publication. Offered on a Pass-Fail basis. Prerequisite: 308. FALL. [2] Ms. Hindle.

Related Courses

Students in the Nursing Administration Specialty select one course in each of the following areas: Organizational Culture, Organizational Theory, and Personnel Management/Labor Relations. Courses are multidisciplinary and taken at either Peabody College or Owen Graduate School of Management.

Organizational Culture.

Select one. Courses other than those listed below may be selected in consultation with nursing administration faculty.

Peabody EdLs 359/3590. Symbolism in Organizations. The study and synthesis of current literature on organizational symbolism. Emphasis is placed on the role of ceremony, ritual, play, intuition, and myth in organizational life. [3]

Peabody EdLs 3480. Human Processes and Administration. Introductory course in administration. Topics include stress, administrative change, and group process; school and community leadership; supervisory principles; communication, goal development, implementation, and evaluation; and leadership styles. [3]

Peabody EdLs 3490. Administrative Theory. Investigates major administrative theories and their impact on administration and the organization. Behavioral science theories and historical, philosophical, psychological, and sociological perspectives are applied to administrative processes. [3]

Organizational Theory

Select one.

Peabody EdLs 3500. Organizational Operations/Processes. This course examines human organizations from four theoretical perspectives. Each perspective is rooted in a distinct scholarly tradition: psychology, sociology, political science, or anthropology. The four perspectives are applied to a variety of organizations: businesses, hospitals, universities, schools, and public agencies. Course is designed to serve both researchers and practitioners from any field or discipline. [3]

Owen Mgt 341. Organizational Management and Human Resources. Examination of the management of work organizations: strategic adaptations to changing environments, organization structures, work and task design, dynamics of small groups, and management of individual performance. Particular attention is paid to issues of organization design, human resource staffing and motivation, leadership, communication, and decision making, all within the context of managing for effective performance and improved productivity. [3]

Personnel Management/Labor Relations

Select one.

Peabody EdLs 3540. Personnel Administration. Primary focus on selection phenomenon. Most functions of personnel administration can be subsumed under selection, recruitment, initial hire, assignment, transfer, promotion, and dismissal. ESLS 3540 assumes that selection is the most important personnel function. [3]

Peabody EdLs 3550. Negotiations. Concepts, understandings, processes, and skills of labor relations and negotiations. The simulated experience is used primarily for building "table" skills and secondarily as a way to relate practice to theory. Appropriate for experienced or inexperienced negotiators, whether labor or management oriented. [3]

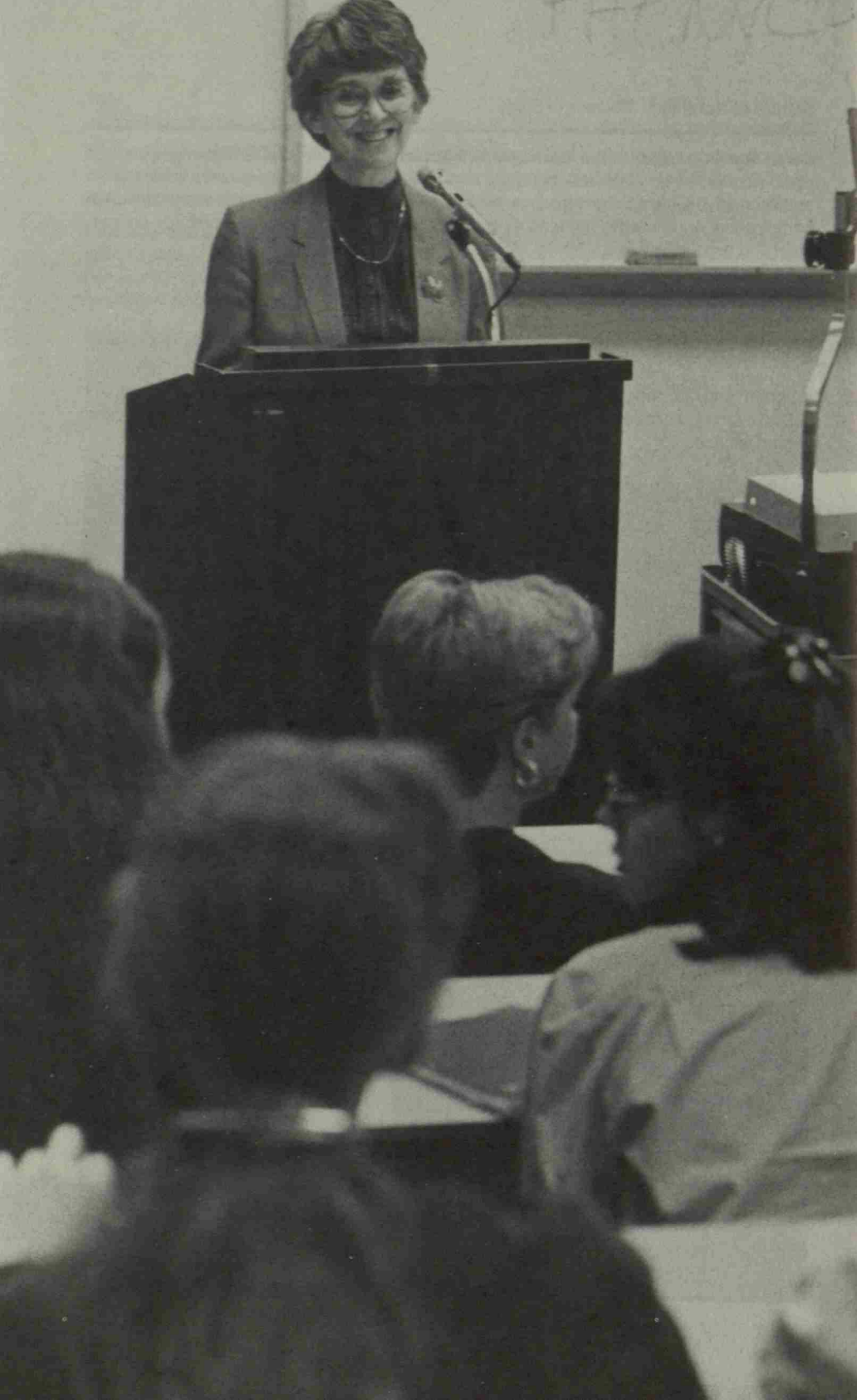
Peabody EdLs 3551. Personnel Management and Negotiations. Concepts, understandings, insights and behaviors related to public organizations that have, as part of their mission, responsibility for education of others. Core topics are the selection phenomenon and employer/employee relations, including negotiations and legal implications for managers and supervisors. [3]

Owen Mgt 447. Labor in the Economy and Society. Examination of issues in governance of the workforce—employment contracts, work rules, wage systems, grievance settlement—and alternative systems of governance, such as collective bargaining, works councils, worker participation, and collegial systems. Analysis of likely consequences for workforce cooperation and productivity. Prerequisite: Mgt 341. [3]

Program Evaluation

Peabody Psych 315 P. Program Evaluation. The evaluation of social programs. The design of evaluations to produce both theoretically meaningful and practical information about the program and its effectiveness. Such topics as needs assessment, monitoring, impact assessment, and cost/effectiveness evaluations. Covers programs in education, health, and human services. [3]





Academic Regulations

THE School of Nursing 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, and otherwise falsifying results of study are prohibited. The student, by registration, acknowledges the authority of the Nursing 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.

Nursing Honor Council

The Honor Council is an organization that seeks to preserve the integrity of the Honor Code. The membership consists of student representatives from the M.S.N. and Bridge levels. Representatives serve for one year from September through August. Officers of the council must be full-time students in good standing. Alternates are elected to serve in the absence of representatives.

Preregistration

Each semester, at a time specified in the calendar, all students are required to confer with their academic advisers and preregister for courses for the next semester. Priority for available space in a course is given to students who preregister. Students are requested to have alternatives for any course that may not be obtainable. During preregistration, students should check carefully with their faculty advisers concerning progress toward completing degree requirements and make the necessary revisions in their program of studies. Advanced scheduling, or preregistration, is not a substitute for registration.

Orientation

An orientation meeting is held each fall prior to the registration period to acquaint new and continuing students with the school environment. The Associate Dean for Academic Programs may call additional class meetings throughout the year as needed.

A spring orientation is designed for students who enter in the spring semester.

Registration

Formal registration takes place at the beginning of each semester. Pre-registration for subsequent semesters takes place at mid-semester for enrolled students. A student who reports to preregister or register off schedule is charged a \$30 late registration fee.

At the time of registration, the student must present evidence of the following:

1. Active Tennessee licensure if the student is a Registered Nurse.
2. Adequate hospitalization insurance coverage either through the University insurance plan or by another policy. See the section on the University's Hospitalization Insurance Plan for further details.
3. Current CPR certification.
4. Student Health clearance for the following:
 - a. Negative results of either tuberculin skin test or chest X-ray taken annually.
 - b. MMR is required of all students born after 1956. For students born before 1957, documentation of Rubella immunity (Rubella antibody titre) or Rubella vaccination is required.
 - c. Hepatitis B vaccination (3-part series) except B.S.N. Nursing Administration students.
 - d. Diphtheria/tetanus.

The School of Nursing requires continuous registration of all degree candidates. Responsibility to maintain registration rests with the student. To retain student status, the student must register each fall, spring, and summer semester or secure an approved leave of absence. Students who are registered for zero hours of Thesis (N379) or Master's Project (N377) or students who are satisfying requirements for an incomplete grade are considered degree candidates. Students registering for zero hours or only completing an incomplete grade are charged one-half credit hour tuition.

Out-of-town students may register by mail for required thesis or master's project credit each semester until the thesis or master's project is completed. Students are responsible for writing the School of Nursing registrar each semester to request registration materials.

Calendar

The official calendar of the School of Nursing is printed at the front of this catalog. A detailed calendar for each semester is distributed at registration. Students are expected to be familiar with these dates and to conform to them. The *Vanderbilt Register*, issued weekly by the Office of News and Public Affairs, contains notices of all events and announce-

ments pertaining to the University community. It is the responsibility of the student to keep informed of any event or announcement applicable to the School of Nursing. Failure to know of an officially required event is not an excuse for non-attendance.

Faculty Advisers

Each student will be assigned a faculty adviser who will assist with planning a program of studies. The complete program should be approved within the first semester of enrollment. The Associate Dean for Academic Programs serves as adviser to special students.

Program of Studies

During the first semester of study, all students must file an approved Program of Studies with the Nursing School registrar. When a change in the program or absence from the school for one or more semesters is anticipated, the student must file an approved change in program form with the registrar. The forms for programs of studies and subsequent changes are available from the department secretary. Copies are to be filed with the adviser and the registrar's office.

Students who wish to alter the required program of studies may petition to do so by giving justification for the request and proposing an alternative program of study.

Declaration of Specialty

Students admitted into the Bridge (M.S.N./M.E.O.) program must formally declare their specialty before registering for any 300-level nursing courses. Students are guaranteed at least their second choice of specialty. While every effort will be made to provide students with their first choice, this cannot be guaranteed due to limitations in clinical and faculty resources in some specialty areas.

Sessions are held throughout the year to orient undeclared or undecided students to the various specialties offered. Students are required to complete a declaration of specialty form available in the registrar's office.

Change of Course

The first five class days of the semester are allocated for necessary changes of course. A fee of \$5 is charged for each course change during that period. After the change period, the fee is \$10.

Courses may be dropped without entry in the final record within two weeks of the first day of classes. Courses may be dropped only after consultation with the adviser and the course instructor. Students must

withdraw from courses according to the date published in the University Calendar. If the course in question is a nursing course, the student will receive the grade of *W* (withdrawal). If the course is taken outside the School of Nursing, grade regulations of the appropriate school will apply.

Audit Courses

Students may wish to audit courses in the School of Nursing for which they will receive no credit. Auditing courses requires registration and payment of tuition and is subject to the following conditions:

1. Consent of the instructor must be obtained.
2. The instructor sets the conditions under which a course may be audited. Failure to meet those conditions is justification for withdrawal of the audit designation.
3. Audits carry no credit.

Pass-Fail Courses

Only elective courses may be taken Pass-Fail. Grades of *C* or above are recorded as *Pass*.

Grades of *Pass* are not counted toward quality point averages. The grade of *F* applies as in any other course; although an *F* earns 0 hours, the hours attempted are counted in calculating the quality point average. If the student has a choice about taking a course for a grade or Pass-Fail, she or he may register on a Pass-Fail basis or may change to Pass-Fail basis within one month of the first day of classes. After this time, one may change from a Pass-Fail to a letter grade basis according to the data published in the University calendar, but not vice-versa.

No-Credit Courses

A student taking a course on a no-credit basis is required to attend class, take examinations, and do all the work of the course. The student's grade is recorded with the notation that no credit toward graduation is received. No-credit courses do count in computation of the student's academic load and in the computation of tuition.

Class Attendance

At the beginning of the semester the instructor will explain the expectations regarding attendance and participation for a course and their influence on the evaluation process. Attendance will not affect the evaluation of the student unless the instructor announces otherwise at the beginning of the semester.

Course Load

The unit of measure of the student's work load is the semester hour. All references to credit hours are semester hours.

The normal schedule for which basic tuition is charged is 12 to 18 hours per semester. A student who wishes to carry more than 18 hours must secure authorization from the Associate Dean of Academic Programs before registration. (Additional tuition is charted for each hour over 18.)

Examinations

Examination policies are determined by the individual instructor. A record of all grades given during the course and all final examinations and major papers are kept on file by the instructor for one year following the conclusion of the course.

A final examination schedule is issued for each term, allowing two hours for a final examination in each course. Each in-class final examination must be given at the time indicated on the schedule.

A number of alternatives to standard in-class examinations are permitted at the instructor's discretion. These include take-home and self-scheduled examinations, oral examinations, and term papers. A course may have no final examination at all if there are adequate opportunities for evaluation during the semester. A take-home, self-scheduled, or oral examination should be approximately equivalent to an in-class examination. Final examinations must be conducted during the final examination period at the end of the seven-week module or at the end of the semester.

Any student more than fifteen minutes late to an examination must present a satisfactory excuse. No student will be admitted after the first hour.

Grade Reports

Students are notified of mid-semester deficiencies by conference and in writing; copies of the notice are sent to the student's faculty adviser and the registrar of the School of Nursing. Students receiving mid-semester deficiencies are encouraged to meet with the course instructor and their faculty adviser to identify resources available to assist in successfully completing the course.

A final grade recorded in the books of the University registrar may be changed only upon written request of the instructor.

Program Evaluation

Students are expected to participate in program evaluation activities while enrolled in the program and after they have left Vanderbilt. These

data will be used for research purposes only. Procedures to protect individual confidentiality will be followed.

Leave of Absence

Leaves of absence are granted for one semester or one year. Application forms are available from the office of the School of Nursing registrar. Leaves must be approved by the academic adviser and the Associate Dean for Academic Programs. Time spent on leave of absence is included in the total time taken to complete the degree. Since the program runs year round, students must take a leave of absence for any semester they are not in attendance. The student will file a Change in Program form. At the end of the leave of absence, the student must notify the registrar in writing of the intent to return or not return. A student failing to register at the conclusion of the stated leave period will be withdrawn from the University and must reapply for admission unless the leave is extended by the Associate Dean for Academic Programs. Those without authorized leave who do not register are dropped from the rolls and are not considered current students. If they wish to resume study in the School of Nursing, they must reapply for admission.

Transportation

Students are responsible for their own transportation to and from clinical facilities and field trips.

Uniform

The uniform worn in the clinical area serves to identify students in the Bridge program. Bridge students are required to have at least two white uniforms with the Vanderbilt University School of Nursing insignia sewn on the left sleeve. Female students wear white stockings and white regulation uniform shoes. Male students wear white socks and white regulation uniform shoes. A cap is not considered part of the uniform.

An identification badge, available through the School of Nursing, is always worn when the student is in the clinical area. Some clinical situations require a white laboratory coat, street clothes, or hospital-provided uniform.

Accessory items needed are a watch with a second hand; ball-point pens with blue, black, red, and green ink; bandage scissors; and a stethoscope. The only jewelry that may be worn with the uniform is a watch, a wedding band, small earrings for pierced ears, and pins designating professional organizations.

The uniform for M.S.N. students varies by specialty. The faculty designates appropriate professional apparel for students taking specialty

nursing courses. An identification badge is always worn when the student is in a clinical area.

Students in uniform are expected to be well groomed at all times.

Academic Standards: Bridge Students

Class Standing

Students admitted to the Bridge (M.S.N./M.E.O.) program are considered Bridge students while enrolled in 200-level nursing courses.

Grading System

All work is graded by letters, interpreted as follows:

| | |
|-----------|--------------------------------------|
| A+, A, A- | 4.0 quality points per semester hour |
| B+, B, B- | 3.0 quality points per semester hour |
| C+, C, C- | 2.0 quality points per semester hour |
| D+, D, D- | 1.0 quality points per semester hour |
| F | 0.0 quality points per semester hour |
| W | Withdrawal |

Plus and minus points are not calculated into the grade point average in the School of Nursing. It should be noted that *D* is not considered a passing grade in any nursing course. All *D* and *F* grades are counted in the computation of quality point ratios, unless the student repeats the course and earns a passing grade.

AB: Absent. The designation of *AB* will be given to a student absent from the final examination who has communicated in advance with the instructor about the absence. A grade of *F* will be given if the student could not have passed the course even by passing the final examination or if the instructor was not notified. The final examination must be taken at a time designated by the instructor.

I: Incomplete. Students for whom an extension has been authorized receive the grade of *I*, which stands until the work has been made up. The course coordinator or instructor who authorizes the extension confers with the student to establish a final time limit for completion of the missing work. Copies of the agreement are given to the student, the instructor, and the registrar of the School of Nursing.

Essays, book reviews, papers, laboratory reports, etc., must be turned in no later than the last day a particular class meets or earlier if so specified by the instructor. The grade for work not done in compliance with this schedule is *0*, unless an extension has been granted. The student must present a petition for an extension to the course coordinator or instructor at least a day before the work is due, and the petition must be endorsed by the instructor.

Repeat Courses

Students enrolled in the generalist nursing component of the M.S.N./M.E.O. program may repeat any course creditable toward the degree, with the following exceptions:

1. A course taken in the School of Nursing may not be repeated outside the school for credit toward the degree.
2. Nursing courses may be repeated only once.
3. Courses with a clinical component for which a grade of C or better was earned may not be repeated.

Courses taken for a letter grade may not be repeated on a Pass-Fail basis, nor may a grade indicating withdrawal or incomplete work be counted in place of a letter grade. Only the latest grade counts in calculation of the grade point average and progress toward a degree.

Probation

Students are expected to maintain a 3.0 grade point average each semester. The academic performance of full-time students is reviewed at the end of each semester. Full-time students are placed on academic probation unless they earn the hours and quality points specified below:

| | Hours Earned | Quality Points |
|---------------|--------------|----------------|
| First Review | 12-18 | 36-54 |
| Second Review | 34 | 102 |
| Third Review | 49 | 147 |

The academic performance of part-time students is reviewed each semester and when the student has earned 12, 24, 36, and 49 hours. Part-time students are placed on academic probation unless they earn the minimum number of quality points specified below:

| | Hours Earned | Quality Points |
|---------------|--------------|----------------|
| First Review | 12 | 36 |
| Second Review | 24 | 72 |
| Third Review | 36 | 108 |
| Fourth Review | 49 | 147 |

A student in the generalist nursing component may be placed on probation only once. If the student's record in another semester warrants probation, the student will be dismissed. A student who is not making satisfactory progress toward the degree may be advised to withdraw or go on leave of absence or may be dropped from the School of Nursing. When a student is placed on or removed from probation, letters are sent to the student and the student's adviser.

If a student cannot improve his or her number of quality points because the needed course cannot be repeated in the following semester, the student will be continued on probation if he or she will have sufficient

quality points for a 3.0 grade point average when the course is satisfactorily completed.

Progression

To progress from the generalist nursing component to the specialist nursing component, students must: (a) complete 46–47 hours of the generalist component with the minimum of a C grade in each course, and (b) earn at least a 3.0 cumulative grade point average.

Most required nursing Bridge courses are sequential, and a student who fails to pass such a course cannot progress in the nursing curriculum. A student seeking a waiver of this policy must submit a written request to the Student Admission and Academic Affairs Committee for an exception to the rule.

As the School of Nursing is a professional school, the faculty may, for the purposes of evaluation, render opinion on the student's total ability. A student's promotion in the program is determined by the Student Admissions and Academic Affairs Committee at the end of each semester. The committee, on the recommendation of the student's instructors, specialty coordinator, and/or academic adviser, promotes only those students who have demonstrated personal, professional, and intellectual achievement consistent with faculty expectations at the student's particular stage of professional development. Students deficient in a major area or areas will be required to repeat course/clinical work or to complete additional efforts satisfactorily in order to remedy deficiencies. Students deficient in a major undertaking or who demonstrate marginal performance in a major portion of their work may be denied further enrollment.

Academic Standards: M.S.N. Students

Class Standing

Students who enter the School of Nursing with a B.S.N. degree are classified as M.S.N. students. Students who have successfully completed the generalist nursing component are also classified as M.S.N. students when they enroll in 300-level nursing classes.

Grading System

All work is graded by letters, interpreted as follows:

| | |
|-----------|--------------------------------------|
| A+, A, A- | 4.0 quality points per semester hour |
| B+, B, B- | 3.0 quality points per semester hour |
| C+, C, C- | 2.0 quality points per semester hour |
| F | 0.0 quality points per semester hour |
| W | Withdrawal |

All *F* grades are counted in the computation of quality point ratios unless the courses in which those grades were earned are retaken with passing grades.

AB: Absent. The designation of *AB* will be given to a student absent from the final examination who has communicated with the instructor about the absence in advance. A grade of *F* will be given if the student could not have passed the course even by passing the final examination or if the instructor had not been notified. The final examination must be taken at a time designated by the instructor.

I: Incomplete. Students for whom an extension has been authorized receive the grade of *I*, which stands until the work has been made up. The course coordinator or instructor who authorizes the extension confers with the student to establish a final time limit for completion of the missing work. Copies of the agreement are given to the student, the instructor, and the registrar of the School of Nursing.

Essays, book reviews, papers, laboratory reports, etc., must be turned in no later than the last day a particular class meets or earlier if so specified by the instructor. The grade for work not done in compliance with this schedule is *0*, unless an extension has been granted. The student must present a petition for an extension to the course coordinator or instructor at least a day before the work is due, and the petition must be endorsed by the instructor.

Repeat Courses

Students enrolled in the specialist nursing component are required to earn a minimum grade of *C* in the foundation (N308 and 374) and research (N375 and 376) courses. Students who earn *C* grades in these courses, however, must have sufficient quality points to maintain a cumulative grade point average of *B*, or a 3.0 on a 4.0 scale.

Students who do not earn at least a *B* in a specialty course with a clinical component must repeat that course.

Nursing courses may be repeated only once. Courses taken for a letter grade may not be repeated on a Pass-Fail basis, nor may a grade indicating withdrawal or incomplete work be counted in place of a letter grade. Only the latest grade counts in calculation of the grade point average and progress toward a degree.

Probation

Students are expected to maintain a 3.0 grade point average each semester. The academic performance of full-time and part-time M.S.N. students is reviewed each semester and when the student has earned 12, 24, and 39 hours. M.S.N. students are placed on academic probation unless they earn the minimum number of quality points specified below:

| | Hours Earned | Quality Points |
|---------------|--------------|----------------|
| First Review | 12 | 36 |
| Second Review | 24 | 72 |
| Third Review | 39 | 117 |

Students in the specialist nursing component must earn at least a 3.0 grade point average each semester and at least a *B* in each course that contains a clinical component. A student in the specialist component who has not met these requirements may be placed on probation if the faculty has reason to expect successful performance in succeeding work. A student in the specialist component may be placed on probation only once. The student receives written notice of probationary status; copies are sent to the specialty director and the School of Nursing registrar.

Progression

Most required specialist nursing courses are sequential, and a student who fails to pass such a course cannot progress in the nursing curriculum. Students who earn less than a *C* in N306, 308, 374, or 375 are not able to enroll in their final specialty clinical course until N306, 308, 374, or 375 has been successfully repeated.

A student seeking a waiver of course sequence must submit a written request to the Student Admission and Academic Affairs Committee.

As the School of Nursing is a professional school, the faculty may, for the purposes of evaluation, render opinion on the student's total ability. A student's promotion in the program is determined by the Student Admissions and Academic Affairs Committee at the end of each semester. The committee, on the recommendation of the student's instructors, specialty coordinator, and/or academic adviser, promotes only those students who have demonstrated personal, professional, and intellectual achievement consistent with faculty expectations at the student's particular stage of professional development. Students deficient in a major area or areas will be required to repeat course/clinical work or to complete additional efforts satisfactorily in order to remedy deficiencies. Students deficient in a major undertaking or who demonstrate marginal performance in a major portion of their work may be denied further enrollment.

Change of Address and Telephone Number

Students who change either their local or permanent mailing address or telephone number are expected to notify the School of Nursing registrar immediately. Candidates for degrees who are not in residence should keep the Nursing School registrar informed of their current mailing address and telephone number.

Graduation

Degree candidates must have satisfactorily completed all curriculum requirements, have passed all prescribed examinations, and be free of all indebtedness to the University.

Commencement

To participate in the commencement ceremony, a student must have completed all degree requirements. The University holds its annual commencement ceremony in May, at the end of the spring semester. A student completing degree requirements will be officially graduated, however, at the close of the semester in which the degree is earned, with such graduation recorded on the student's permanent record. Students who graduate at the close of summer school or the fall semester are encouraged to join spring graduates in the next graduation ceremony. Those unable to do so may receive their diplomas by mail.

Eligibility for Registered Nurse (R.N.) Licensure

Upon meeting the requirements specified by the Tennessee State Board of Nursing and upon recommendation by the faculty and the Dean, students are eligible to apply to the National Council on Licensure Examination to become a Registered Nurse (NCLEX-R.N.)

Students who are not successful on the first writing of the NCLEX-R.N. are subject to immediate withdrawal from courses with a clinical component. Once an R.N. license is obtained, the student may enroll in courses with a clinical component.

Students who are not Registered Nurses are required to take examinations specified by the Associate Dean for Academic Programs to prepare for the NCLEX-R.N. Students will be billed for the examinations through their student accounts.

Terminating Disciplinary Actions

A student who is not making satisfactory progress toward a degree may be advised to withdraw or go on leave of absence, or may be withdrawn or dropped from the University.

When asked to withdraw, the student meets with the Associate Dean for Academic Programs and determines whether or not to return. Suspension is for either an indefinite or a stipulated period. If the latter, the student may return at the end of the period; if the former, the student is eligible to return after giving the Student Admission and Academic Affairs Committee substantial evidence of preparation to carry on studies successfully. A student who has been dropped may apply to the Student Admission and Academic Affairs Committee for readmission after an

intervening period of not less than one semester. The committee will consider such cases on presentation of substantial evidence of a responsible and successful period of work or study during the intervening period. A former student having successfully completed a tour of duty in the armed forces will be classified in this category. There is no guarantee, however, that a student will be readmitted. This will depend on (a) the faculty's evaluation of the likelihood of the applicant's successful performance in succeeding work; (b) the competition of other applicants; and (c) class space available.

A student readmitted after having been advised to withdraw, or after having been suspended or dropped, is on probation during the first semester back in residence.

Student Complaint and Grievance Procedure

Students with concerns regarding a course or an instructor should first discuss their concerns with the course instructor. If not satisfied, the student should confer with the course coordinator. If the student is not satisfied with the resolution of the problem, he or she should meet with the department chair and, if further discussion is needed, with the associate dean and then the Dean.

Additional information on complaint and grievance procedures can be found in the *Student Handbook*.

Withdrawal from the University

Students planning to withdraw from the University should see the School of Nursing registrar to initiate proper procedures.



Honors and Awards



Sigma Theta Tau

The Iota chapter of Sigma Theta Tau, international honor society of nursing, was installed at Vanderbilt University on 3 June 1953. Sigma Theta Tau is professional rather than social, and its purpose and functions may be compared to other honor societies. Sigma Theta Tau is a member of the Association of College Honor Societies.

Election to membership in the society is limited to students who have shown marked qualities of character, leadership, and ability in nursing and who have maintained a high scholastic average. Students in the direct entry M.S.N. program are eligible for membership after having completed one-fourth of the required curriculum. Students in the Master of Science in Nursing with Multiple Entry Options (M.S.N./M.E.O.) program are eligible for membership after having completed 22 hours of the required Bridge curriculum.

Founder's Medal

The Founder's Medal for First Honors is conferred annually upon the graduating student in the School of Nursing who, in the judgment of the faculty, has achieved the strongest record in the several areas of personal, professional, and academic performance in meeting the requirements for the Master of Science in Nursing degree.

Amy Frances Brown Prize for Excellence in Writing

This prize is awarded each year there is a worthy candidate among the graduates of the School of Nursing. The selection is based upon papers submitted to meet course requirements in either the generalist or specialist nursing component of the curriculum.

Honor Scholarships

Vanderbilt's highly competitive Honor Scholarship program is based on academic merit. Honor Scholarships are awarded in recognition of exceptional accomplishment and high promise in the field of nursing. The applicant's total record is considered, with particular attention to academic performance, standardized test scores, and recommendations.

THE HAROLD STIRLING VANDERBILT (HSV) SCHOLARSHIP honors the memory of the great-grandson of Commodore Cornelius Vanderbilt and president of the University's Board of Trust from 1955 to 1968. The scholarship covers full tuition for three semesters. Selection is based on academic excellence and potential for contribution to the Nursing profession; financial need is not a criterion.

THE LILLIAN CARY SCHOLARSHIP is awarded to an M.S.N. student in the Primary Care Specialty. Selection is based on academic merit.

THE FRANCES HELEN ZIEGLER TUNNELL GRADUATE HONOR SCHOLARSHIP was endowed through the will of this former dean of the School of Nursing.

THE JULIA HEREFORD ALUMNI SCHOLARSHIP is awarded annually through the generosity of the Julia Hereford Society and the Julia Hereford Endowed Alumni Scholarship Fund. Open to School of Nursing alumni, non-Vanderbilt alumni admitted to a graduate program of the School of Nursing, or School of Nursing faculty members who have made a contribution to the school and are expected to return to Vanderbilt. Recipients are selected by a committee of faculty members and alumni. Written application is required. Direct inquiries to the president of the Nursing Alumni Association, Office of Alumni and Development, School of Nursing.

THE C. W. KEMPKAU SCHOLARSHIP is awarded to an outstanding Bridge student in each entering class. The yearly stipend continues for the second year of study, subject to satisfactory academic performance.

Other Scholarships

THE BARNES SCHOLARSHIP was established by Mr. and Mrs. Mel Barnes and is awarded annually to a deserving perinatal student in the maternal/fetal area.

THE GEORGE R. BURRUS MEDICAL SCHOLARSHIP FOR NURSES was established by a contribution from Dr. George R. Burrus for a worthy student in the School of Nursing.

THE JEANNE P. GLASSCOCK SCHOLARSHIP was established by Dr. Michael E. Glasscock. Preference is given to RNs returning to school via the "Bridge."

THE HALEY AWARD was endowed through a bequest from James H. Haley, Jr., to help support a worthy student in the School of Nursing.

THE KATHLEEN SUZANNE NELSON SCHOLARSHIP FUND was endowed through a bequest from Dr. Robert A. Nelson, Jr., in memory of his daughter, a 1975 M.S.N. graduate of the School.

THE LAURA CATHERINE RANKIN MEMORIAL SCHOLARSHIP was established in memory of a School of Nursing student by her family and classmates. Preference is given to an R.N. returning to the school, especially in the perinatal/neonatal program.

THE HILLIARD TRAVIS SCHOLARSHIP FUND is supported by the generosity of Mr. and Mrs. Hilliard Travis. Several awards are made each year to students in specialties that involve nursing care for children of any age, from neonate through adolescence.

THE FRANCES PHILLIPS WARD SCHOLARSHIP was established in memory of the late Frances Ward by her family and friends. A scholarship award is made to a student in the adult health specialty, with preference to a student focusing on oncology nursing.





Financial Information



Tuition and Fees

The Master of Science in Nursing degree is a three-semester program entered directly; entered through the Bridge it requires six semesters. Bridge and M.S.N. students attend fall, spring, and summer sessions.

Tuition for 1990/91 is \$5,925 per semester, fall, spring, or summer session, for a schedule of 12 to 18 hours. Students enrolled for fewer than 12 hours or more than 18 are charged \$494 per credit hour.

Rates for tuition and fees are set annually by the Board of Trust and are subject to review and change without further notice.

The charge for students registered for zero hours of Thesis (N379) or Master's Project (N377) is one-half (0.5) credit hour of the posted hourly tuition. Registration and payment of fees retains student status.

Students taking an incomplete in a course register for zero hours until removal of the incomplete grade. The charge for each course in which an incomplete is recorded is one-half (0.5) credit hour of the posted hourly tuition. Registration and payment of fees retain student status.

Payment of Tuition and Fees

Tuition, fees, and all other University charges incurred prior to or at registration are due and payable at registration. All charges incurred after registration are due and payable in full by the last day of the month in which they are billed to the student. If payment is not made within that time, cancellation of V-Net (long distance telephone) access may result and additional charges to dining accounts may be prohibited. Students who withdraw 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 refunds are made after the eighth week of classes in any semester.

Tuition Payment Programs

Tuition payment programs are available through the Richard Knight Tuition Payment Plans. Pamphlets describing these plans are available on request from the Office of Student Accounts or the Office of Financial Aid.

Late Payment of Fees

Charges not paid at the time of registration will be automatically deferred (the Office of Accounting may refuse to allow a deferment if in its judgment the deferment is unwarranted), and the student's account will be assessed a monthly late payment fee of \$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 last day of the month in which the student is billed. Late payment fees will continue for each month thereafter based on the outstanding balance unpaid as of the last day of each month. All amounts deferred are due not later than 30 November for the fall semester, 30 April for the spring semester, and 31 July for the May and summer sessions.

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. Diplomas of graduating students will be withheld until all bills are paid.

Required Fees (1990/91)

| | |
|--|-------|
| Application | \$ 50 |
| Matriculation | 200 |
| Student activities and recreation fees | 186 |
| Laboratory fee for N200 | 35 |
| Laboratory fee for N203 | 10 |
| Liability insurance coverage | 25 |
| Thesis binding (two copies) | 30 |

Other academic fees (1990/91)

| | |
|---------------------------------------|-------|
| Hospitalization insurance | \$488 |
| Late registration | 30 |
| Change of course during change period | 5 |
| Change of course after change period | 10 |
| Preceptorship (per credit hour) | 494 |
| Mosby AssessTest (non-R.N. only) | 25 |

Expenses for books and supplies will vary by specialty. Equipment, such as tape recorders and diagnostic sets will be required for certain specialties.

Hepatitis B vaccine is available, at student expense, through the Student Health Service. The charge for Hepatitis B Vaccine in 1989/90 was \$148.

Activities and Recreation Fees

The student activities fee (Sarratt and University programs) and the student recreation fee will be waived, upon petition by the student, if he or she is a part-time student registered for 4 or fewer semester hours or if he or she resides while a student over fifty miles from campus. Petitions for waiver of the fall semester fees must be received by 10 September and for spring semester fees by 21 January at the Office of Campus Student Services, Box 6206 Station B, Nashville, Tennessee 37235.

Pre-Nursing Laboratory Fee

Students are charged a \$35 laboratory fee for N160, Human Anatomy. The fee is billed through students accounts.

Transcripts

Academic transcripts are supplied by the University Registrar on written authorization from the student. A fee of \$2 is charged for each transcript. Transcripts are not released for students with delinquent accounts.

Professional Liability Insurance

Students will be automatically covered with professional liability insurance. Payment of premium is required of all enrolled nursing students at the time of registration. Payment of premium is required regardless of any other professional liability coverage the student might have, even for students taking only didactic courses. The policy covers only practice as a nursing student and does not extend to coverage of nursing practice outside of the student role.

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 policy details and their responsibility in regard to insurance coverage.

Preceptorship

Some specialties have a required preceptorship; students and faculty share the responsibility for locating preceptorship sites. Guidelines for selecting an appropriate site are available from the Specialty Director. Students register for a preceptorship at the beginning of the semester.

Thesis / Master's Project

Students are required to register for thesis or master's project credit each semester from the time of committee and adviser selection until final approval of the completed thesis or project. Students who fail to register each semester will automatically be withdrawn from the University and will have to reapply for admission.

Students completing a thesis are expected to have it published. A \$30. fee is charged for binding.

Students who enter with a B.S.N. are required to complete their thesis or master's project within six years of registering for their first course. Students who enter through the Bridge (M.S.N./M.E.O.) program are required to complete their thesis or master's project within eight years of their first registration.

Employment Opportunities for Spouses

Nashville affords employment opportunities common to an industrial, business, and educational center. Major employers include Vanderbilt University, two national insurance companies, and the state government. Numerous opportunities for employment in the health care industry exist in the Medical Center and in local hospitals and community health agencies.

Every effort is made to find a position within the University for spouses of students. Interested spouses should make inquiry at the Vanderbilt Employment Center, Box 160 Peabody Station, Nashville, Tennessee 37205, (615) 322-8300.

Financial Aid

Financial aid is available from several sources for both full- and part-time students. Students receiving financial assistance are bound by the requirements of the funding source as to credit hours and employment policies.

All students who wish to apply for financial aid, scholarships, or Federal Traineeships must complete a Graduate Financial Aid application and a Graduate and Professional School Financial Aid Statement (GAPSFAS). GAPSFAS forms are available through the Financial Aid Office and the School of Nursing Admissions Office. Students wishing to obtain a loan should apply directly to the Financial Aid Office, 232 Alexander Hall, Vanderbilt University, Nashville, Tennessee 37240.

No special application is required for consideration for awards on the basis of academic merit. To be considered, however, applications for admission must be on file by 1 May for the next academic year. A GAPSFAS is required for these awards. The School of Nursing will send students an

additional financial aid form that elicits information to qualify students for certain sources of scholarships. The Vanderbilt University Financial Aid Office requires a form to assist in qualifying students for certain need-based and loan resources.

Registered Nurse students are encouraged to explore funding available through various professional organizations and through tuition reimbursement benefits offered by their employers. Professional organizations that may offer funding for graduate education include the Nurses' Educational Fund, American Cancer Society, State Nurses Associations, American Association of Operating Room Nurses, Nurses Association of the American College of Obstetricians and Gynecologists, and the National Association of School Nurses.

In addition to a variety of sources of student aid, reductions of more than 50 percent of full-time and part-time tuition are available for a limited number of qualified Tennessee residents.



SCHOOL FOR NURSING

EST. 1926

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Faculty



- JUNE C. ABBEY, Associate Dean for Research and Evaluation; Director of the Center for Nursing Research; Professor of Nursing
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- BARBARA CHRISTMAN ADAIR, Associate Dean for Academic Programs; Associate Professor of Nursing
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- FRANCES C. ADKINS, Adjoint Instructor in Nursing
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- BARBARA D. AHLHEIT, Adjunct Instructor in Nursing
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- SOBRA CARLTON WATSON ALEXANDER, Adjunct Instructor in Nursing
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- ROSEMARY A. BOWMAN, Adjunct Instructor in Nursing
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- CATHLEEN K. BRANNEN, Director of Finance and Administration; Adjunct Instructor in Finance in Nursing
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- DAWN CAMP-SORRELL, Adjunct Instructor in Nursing
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- TERRY CAPTON-SNELL, Adjunct Instructor in Nursing; R.N.; C.N.M.
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 Nursing
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 ct Assistant Pro-
 Vanderbilt); R.N.
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 (Peabody); R.N.
 n Obstetrics and
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 ct Associate Pro-
 R.N.P.
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 ructor in Nursing
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 t of Family and
 rnia, San Fran-
 ct Instructor in
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 rsing (Alabama,
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- VIRGINIA H. WILLIAMS, Adjoint Instructor in Nursing
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- WANDA F. WILSON, Assistant Administrator, Vanderbilt University Hospital; Adjoint Instructor in Nursing
B.S.H.A. (Saint Joseph's [Maine]); R.N.
- AMY L. WINTER, Adjoint Instructor in Nursing
B.S., M.S.N. (Tennessee); R.N.

structor in Nursing
N. (Vanderbilt)
structor in Nursing
New York); R.N.;

er in Nursing
shville); M.S.N.

nt Instructor in
rbilt); R.N.
nt Associate Pro-
l); M.D. (Tennes-
ctor in Nursing
atholic); M.S.N.

ciate Professor of
nt Saint Joseph);

Instructor in Nurs-
ng (Alabama, Bir-
sor of Psychology
chology, Peabody
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nnecticut)
structor in Nursing
ois, Medical Cen-
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nt Instructor in
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ctor in Nursing
phis)
Instructor in Nurs-
State); M.S.N.

nt Professor of the
gh); R.N.
Instructor in Nurs-
nessee); R.N.
nt Administrator,
; Adjoint Instructor
a); R.N.
tor in Nursing

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of Nursing
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in Nursing
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JANE C. ZIBELIN, Adjunct Instructor in Nursing
B.S.N. (Tennessee, Chattanooga); M.S.N. (Van-
derbilt)

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| B.S.N., Emory | |
| GEORGIA SLOAN WILSON | Sevierville, Tenn. |
| B.S.N., Tennessee, Chattanooga | |

Child and Adolescent Clinical Nurse Specialist

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| B.S.N., Vanderbilt | |
| CHARLENE BLANKENSHIP CUNNINGHAM | Chattanooga, Tenn. |
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| MARY JO DAVIS | Chattanooga, Tenn. |
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| B.S.N., Kentucky | |
| SUZANNE WILLIAMS | Nashville, Tenn. |
| B.S.N., Kentucky | |
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| | |
|---|--------------------------|
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| B.A., Concordia [Montreal] | |
| ROSIE ALVINO BLAKEMORE | Nashville, Tenn. |
| B.S.N., Tennessee State | |
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| B.S.N., University of the State of New York | |
| CHARLOTTE MATHIAS COVINGTON | Nashville, Tenn. |
| B.S.N., Vanderbilt | |
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| B.S.N., Tennessee | |
| ANTHONY I. DEBONIS | Fithian, Ill. |
| B.S.N., Creighton | |
| JENNIFER ALLISON DILLARD | Nashville, Tenn. |
| JUDITH CAROL REESE EAST | Johnson City, Tenn. |
| B.S.N., East Tennessee State | |
| SUSAN CAROL LIEBERMAN EMERSON | Westlake Village, Calif. |
| B.S., California State, Fresno | |
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| B.S.N., Vanderbilt | |
| KATHERINE ANN HARRISON | Jackson, Miss. |
| B.S.N., Vanderbilt | |
| MARJORY KATHKA JOHNS | Mount Juliet, Tenn. |
| B.S., Southern Missionary | |
| KARIN TRACI KELLY | Chattanooga, Tenn. |
| B.S.N., Tennessee, Chattanooga | |

| | |
|---|-------------------------|
| AMY TERESE MAIRSON B.A., Michigan | Nashville, Tenn. |
| LEIGH ANN THOMPSON MCINNIS B.S.N., Vanderbilt | Nashville, Tenn. |
| BARBARA WARD MERIDETH B.S. in Nur., Baylor | Caruthersville, Mo. |
| SHEILA NICHOLSON MOREHEAD B.S.N., North Carolina | Brentwood, Tenn. |
| RACY PETERS SANDOVAL B.S., Valparaiso | Nashville, Tenn. |
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| BARBARA ANNE MILLER STEWART | Nashville, Tenn. |
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Gerontological Nurse Practitioner

| | |
|--|-----------------------|
| JANE ELIZABETH BASS B.S.N., Vanderbilt | Carthage, Tenn. |
| BARBARA JANE BOONE B.S.N., Austin Peay State | Joelton, Tenn. |
| JUDITH SORENSEN FERGUSON B.S.N., Vanderbilt | Franklin, Tenn. |
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| TONI DELANO MESSENGER B.S.N., Northwestern State; M.Ed., Georgia Southwestern | Eads, Tenn. |
| LAURIE THOMPSON MOORE B.S.N., North Carolina | Fayetteville, N.C. |
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| EMMA MARSELLA SMITH B.S., M.S.Ed., Purdue | Lafayette, Ind. |
| MARIJANE OWNBY B.S.N., Belmont | Franklin, Tenn. |

Nursing Administration

| | |
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| PATRICIA ROYSE BEARDSLEY B.S.N., Tennessee Technological | Celina, Tenn. |
| DEBORAH A. GREGORY B.S.N., Tennessee, Chattanooga | Nashville, Tenn. |

| | | |
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| hville, Tenn. | JOHNNIE SUMMER GRIFFITH | Chattanooga, Tenn. |
| | B.S.N., Tennessee, Chattanooga | |
| hville, Tenn. | KAREN SHELTON HALL | Fayetteville, N.C. |
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| ersville, Mo. | CASSANDRA CROCKER LEAKE | Tiptonville, Tenn. |
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| wood, Tenn. | JUDITH LISA POWERS | Oakhurst, N.J. |
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| hville, Tenn. | PATRICIA ORZEL ROBINSON | Saint Louis, Mo. |
| | B.S., Southern Illinois | |
| hville, Tenn. | SYLVIA ANN SHERRILL | Crossville, Tenn. |
| | B.S., Southern Missionary | |
| anee, Tenn. | TERESA LYNN UNDERWOOD | Beech Grove, Tenn. |
| | B.S.N., Tennessee, Chattanooga | |
| hville, Tenn. | VELINDA JONES YOUNGER | Athens, Ga. |
| nville, Tenn. | B.S.N., Georgia | |

Perinatal Clinical Nurse Specialist

| | | |
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| | B.S.N., Vanderbilt | |
| hage, Tenn. | MELINDA KAY SPRINKLE COLLINS | Kingsport, Tenn. |
| | SUSAN SIMONS JOHNSON | Nashville, Tenn. |
| elton, Tenn. | DEBORAH ANN JONES | Nashville, Tenn. |
| | DIANE MARIE JOYCE | Boardman, Ohio |
| nklin, Tenn. | B.S.N., Youngstown State | |
| cisco, Calif. | CHERYL LYNN LANKHAAR | Terre Haute, Ind. |
| | B.S., Indiana State | |
| q Green, Ky. | MONICA MARY LUND | Fort Campbell, Ky. |
| | B.S., Michigan State; M.S., Central Michigan; | |
| Eads, Tenn. | M.S.Ed., Southern California | |
| teville, N.C. | PATRICE LIRETTE MCGUINNESS | Chauvin, La. |
| | B.S.in N., Louisiana State | |
| anon, Tenn. | DEBORAH JO STUMPF | Nashville, Tenn. |

Psychiatric Mental Health Clinical Nurse Specialist

| | | |
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| hville, Tenn. | JULIA MARTHA BRADSHAW | Lebanon, Tenn. |
| | B.S.N., Vanderbilt | |
| ayette, Ind. | CAROLYN JEAN ELDRIDGE | Nashville, Tenn. |
| | B.S., Oregon State | |
| nklin, Tenn. | LINDA JOYCE GRANTHAM | Santa Cruz, Calif. |
| | B.S., California State, Fresno | |
| | CYNTHIA PATTERSON LEACH | Gadsden, Ala. |
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| elina, Tenn. | VIRGINIA MAXINE PARTRIDGE | Murfreesboro, Tenn. |
| | B.S.N., Tennessee Technological | |
| hville, Tenn. | CAROLINE ANN POST | Grand Rapids, Mich. |
| | B.S. in Nursing, Calvin | |

ALYSON COLEEN MOORE ROSS
 B.S.N., Vanderbilt
 JIMMIE BUSBY SMITH
 B.S.N., Union
 WILLA DEAN THOMAS
 B.S., Southern Mississippi
 JANET KAY TRACY
 B.S. in Nurs., Berea
 RACHEL NTOMBIYENKOSI ZULU
 B.S., South Africa

Evansville, Ind.
 Selmer, Tenn.
 Newton, Miss.
 Rockwood, Tenn.
 Ulundi, South Africa

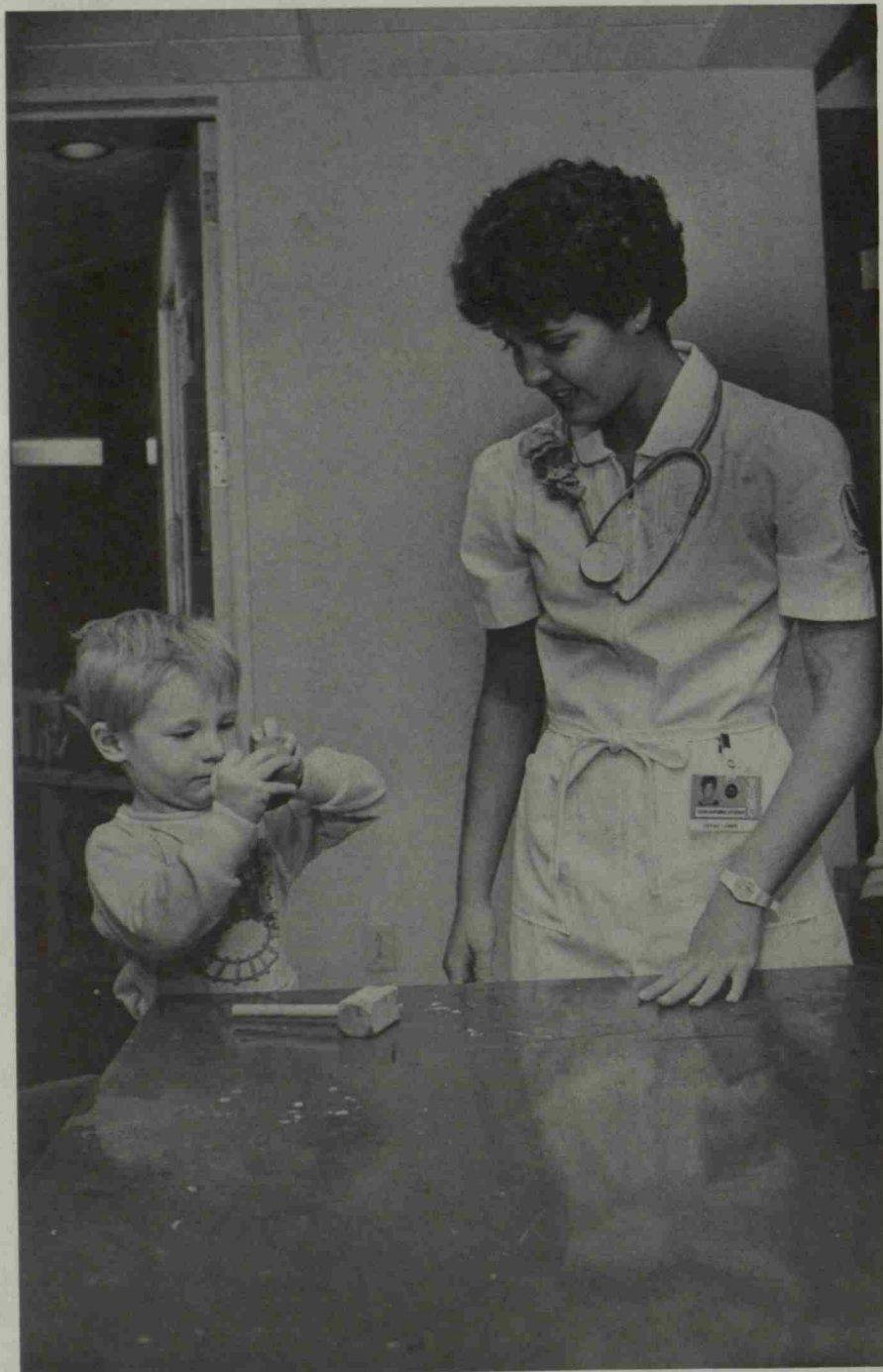
Evansville, Ind.

Selmer, Tenn.

Newton, Miss.

Clarkwood, Tenn.

Port Elizabeth, South Africa



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Vanderbilt University Hospital

The Vanderbilt Clinic



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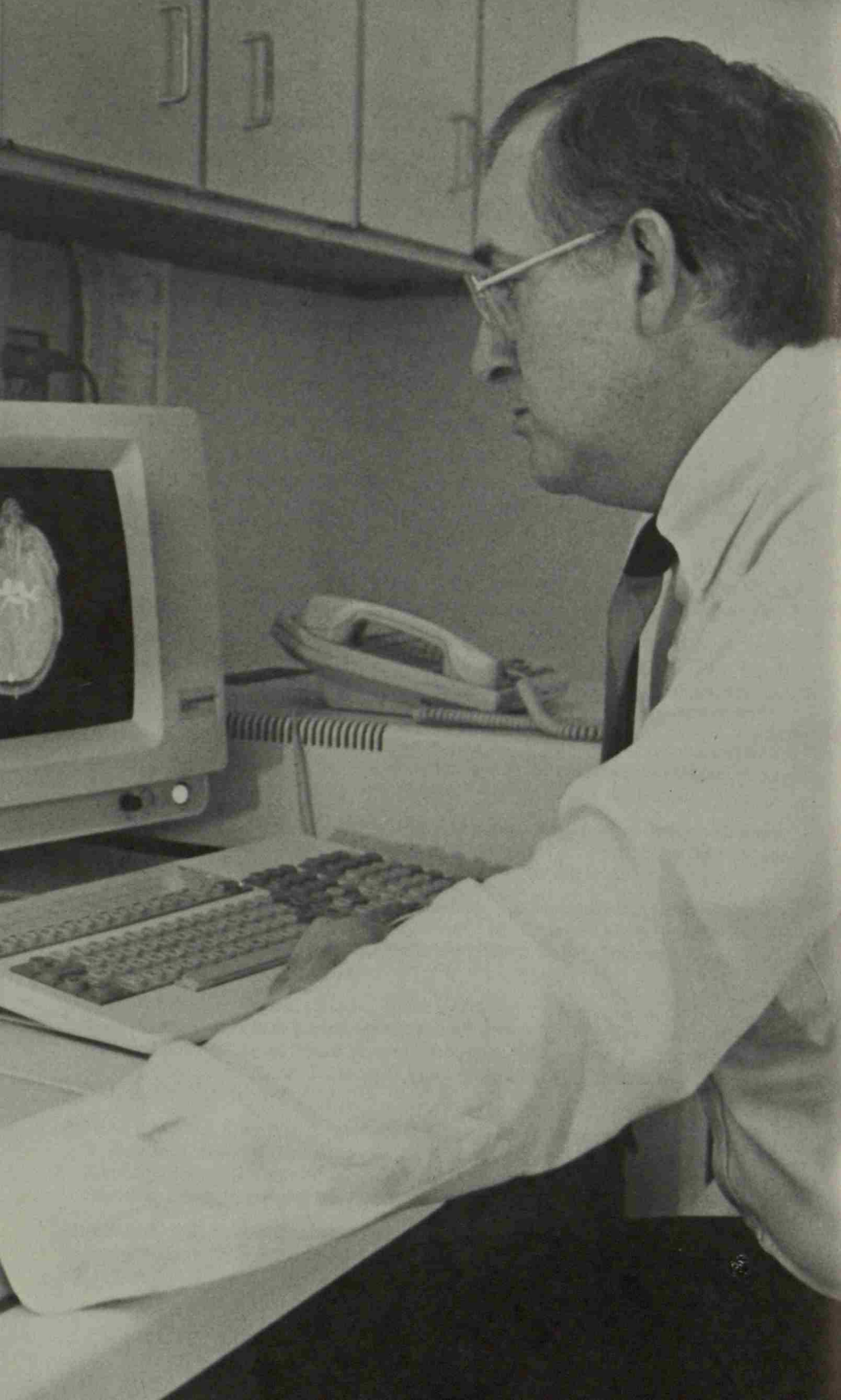
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Vanderbilt University Hospital: Leading the Way in Medicine

THE most striking feature of the Vanderbilt University Hospital is its modernity. Architecturally exciting, the hospital was designed with one purpose in mind—the treatment, care, and recuperation of the patient.

From its founding almost a century ago, Vanderbilt University Hospital has grown to its present extensive complex, housing some of the most renowned medical specialists and the latest curative equipment. Although Vanderbilt is home to Nobel laureates and is a recognized center for research in all phases of medicine, it retains the compassion and caring that has underscored its philosophy since its inception.

Designed to accommodate every patient need, the eleven-story structure places high technology in an aesthetically pleasing environment. Among the many sophisticated diagnostic tools at Vanderbilt are the Positron Emission Tomography (PET) scanner and cyclotron, with which Vanderbilt scientists are better able to battle such diseases as Alzheimer's, Huntington's, and Parkinson's, and Magnetic Resonance Imaging (MRI). Using a powerful magnetic field, this noninvasive device views the inner body to detect abnormalities of the brain and spinal cord.

The Vanderbilt Laser Center is one of the newest and most advanced laser research facilities in the United States.

The Biliary Disease Consultation and Treatment Center and the Center for Facial Nerve Disorders are but two examples of the advanced treatment capabilities developed by physicians and other health care specialists at the Vanderbilt University Medical Center.

The skill of the Vanderbilt medical and nursing teams is maximized in a setting that promotes quality patient care through efficiency of design. Medically related areas are grouped so patients needing specialized care can be served to the best advantage, as in the Neuro Care Unit. The hospital's lower floors house the emergency department, serviced by special elevators that convey patients directly to the operating rooms, labor and delivery, ancillary services such as EEG and EKG, and radiology.

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

Every facet of the hospital was constructed with the patient in mind. The hospital employs the unit-dose system of medication, which is safer

and more economical for the patient. The Spectra, pneumatic tube, and Telelift systems were installed to facilitate communication and distribution for the patient's benefit.

Patient-centered care, a result of the collaborative efforts of medical, nursing, and other health care professionals, is the cornerstone of the hospital's mission. Continuity of care characterizes every hospital stay. To accomplish this, a specific nurse is assigned to each patient, assuming total responsibility for that patient's care from admission through discharge from the unit.

Children's Hospital

The fourth, fifth, and sixth floors of the University Hospital make up the Children's Hospital of Vanderbilt, designed to meet the special needs of children. This facility provides the complete range of medical services and treatment for children from birth through adolescence.

Founded in 1970 with a small staff and limited space, it has grown to 148 beds and a staff of nearly 500. Recognized nationwide for excellence in the treatment of infants and children, Children's Hospital is a comprehensive facility encompassing a nursery and neonatal intensive care unit, pediatric intensive care and step-down units, surgical units, the Junior League Home for long-term care, and outpatient clinics for children. Parents are encouraged to remain with their children, and Children's Hospital maintains facilities allowing them to do so in comfort.

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

Angel III, a neonatal intensive care unit on wheels, makes over 500 trips a year to pick up critically ill newborn infants at regional hospitals and bring them to Vanderbilt where they can receive lifesaving 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 resulted from research in nutrition, infant metabolism, and infectious diseases. Additional centers of excellence in Children's Hospital include a kidney center, the Junior League Lung Center, and the Child Development Center.

The Vanderbilt Clinic

The Vanderbilt Clinic houses ambulatory care services, diagnostic laboratories, the outpatient pharmacy, the Henry-Joyce Cancer Center, the Stallworth Rehabilitation Center, the Children's Hospital Outpatient Center, and the cafeteria and food services facility. As both patients and physicians welcome the growing trend toward outpatient care, The Vanderbilt Clinic provides an excellent environment for its delivery. With a full complement of state-of-the-art equipment and the support of the entire Medical Center faculty, The Vanderbilt Clinic has become one of the region's finest resources for outpatient services.

Level I Trauma Center and Emergency Department

The Vanderbilt University Hospital operates the only Level I Trauma Center in Middle Tennessee. This is a vital service for the residents of this region, and Vanderbilt is one of only five hospitals in the state with this designation. The 20-bed Emergency Department provides care for patients of all ages and is the entry point for 30% of hospital admissions.

LifeFlight

The LifeFlight helicopter ambulance service is designed to provide quick access to medical care in emergencies. The landing site is a helipad on the roof of the hospital, directly over the operating room. The service operates within a 130-mile radius of Nashville and is staffed by a team of four pilots and eleven nurses. The 24-hour dedicated dispatch center is located within the Emergency Department.

Middle Tennessee Regional Poison Control Center

The Poison Control Center, on the first floor of Vanderbilt Hospital, provides 24-hour coverage by certified poison specialists and/or clinical toxicologists. This service is available to answer questions regarding possible drug or poison overdoses. The Poison Center is equipped with a state-of-the-art laser-disk data system to retrieve instantaneously current and accurate information on over 550,000 poisonous substances.

Burn Center

The Vanderbilt University Burn Center is a 20-bed specialized facility dedicated solely to the treatment and rehabilitation of burn victims. A highly-trained multidisciplinary team of burn specialists provides the latest methods for treating and caring for the burned adult or child. The Burn Center is on the fourth floor of the Round Wing, in Medical Center North.

Cooperative Care Center

The Cooperative Care Center is a 16-bed specialized inpatient unit, which provides nursing care in a way that enables patients and their families to be active participants in their care from admission to discharge. Helping them to learn more about health needs and medications, broadening their health knowledge, and developing the skills that will allow them to return home independent and self-assured are all intended results of the program. A homelike atmosphere promotes the self-care philosophy and a feeling of wellness.

Physicians from all services—medical, surgical, and pediatric specialties—utilize this area. The Cooperative Care Center's all-R.N. nursing staff, in conjunction with pharmacists, nutritionists, and educational coordinators, provide individualized educational programs for patients during their stay in the center. The center is located on the seventh floor of the Round Wing, in Medical Center North.

Rehabilitation Center

The Rehabilitation Center is a unit of Vanderbilt University Hospital serving inpatients, located in Medical Center North on the third floor of the Round Wing. The Vanderbilt Clinic's Stallworth Rehabilitation Center serves the outpatient rehabilitation needs of patients.

The primary objective of the Rehabilitation Center is to provide comprehensive medical evaluation and treatment programs that help restore physical, social, and vocational capabilities to people with severe physical or cognitive disabilities. This is accomplished by offering an interdisciplinary approach (physical therapy, occupational therapy, speech therapy, social work, nursing and medicine, training in independence techniques, emotional adjustment, pre-vocational evaluation, and post-discharge planning, which includes close liaison with family and community resources.

Vanderbilt Institute for Treatment of Addiction

Located in the Zerfoss building of Medical Center North, the Vanderbilt Institute for Treatment of Addiction (VITA) is a 14-bed treatment unit for people suffering alcoholism or drug addiction. Minor detoxification is performed in the unit, and patients enter a four-week inpatient rehabilitation program with two years of after-care. Family members are included in the program to help them develop a positive lifestyle for the patient and the family as a whole. Residents and students are assigned to treatment groups as part of the training program. VITA recently established an outpatient program to assist patients in overcoming problems of addiction.

Day Surgery Center

Day surgery may be ideal for patients who require relatively short procedures with limited anesthetic and surgical risks. Such operations are performed without overnight hospitalization, decreasing the cost but not the quality of care. The center provides excellent facilities for these procedures, including four operating suites, each with laser capabilities. Adjacent recovery suites and private patient rooms further promote the recovery of the day surgery patient.

Kim Dayani Human Performance Center

The Kim Dayani Human Performance Center, housed in a new 25,000 square foot facility a block away from The Vanderbilt Clinic, is dedicated to achieving the balanced, healthy lifestyle that promotes the body's greatest potential. The center conducts educational, treatment, and research programs in health promotion, with special emphasis on exercise, nutrition, weight management, smoking cessation, stress reduction, fitness testing, cardiac and orthopaedic rehabilitation, and rehabilitation from other chronic diseases. Through its internships and institutes, the center also trains health professionals in the fundamentals and applications of wellness and disease prevention. Vanderbilt faculty, staff, and medical students are eligible to use Dayani's full-service fitness center, which includes a swimming pool, indoor track, weight machines, cardiovascular exercise equipment, aerobics classes, and massage therapy.

Programs in Allied Health

Vanderbilt University Hospital conducts training programs in seven technical areas of allied health professions. Most are post-baccalaureate programs leading to certification in an allied health field.

Program in Cardiovascular Perfusion

The year-long program in cardiovascular perfusion and perfusion technology prepares graduates for positions as perfusionists on open-heart surgery teams. 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 Cardiac and Thoracic 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.

Dietetic Internship Program

The forty-four-week dietetic internship program is designed for the generalist practitioner. It provides an opportunity for practical experience in food service systems management, acute and ambulatory nutritional care, and community nutrition.

Through diverse learning opportunities provided by Vanderbilt's Department of Nutrition Services and specialty units, and several area hospitals and community agencies, the dietetic intern achieves an understanding of the dietitian's role in a variety of settings.

Program applicants must have a baccalaureate degree from an accredited college or university and have completed Plan IV requirements established by the American Dietetic Association. Upon completion of the dietetic internship, the intern will be eligible to take the national registration examination to become a registered dietitian.

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 in Clarksville, Tennessee, 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 Center for Radiation Oncology.

Students, who must be graduates of an accredited two-year radiologic 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 Radiologic 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 two-year associate degree program in radiologic technology is designed to train students to perform the many varied diagnostic imaging procedures utilizing x-ray and other forms of ionizing radiations. It is conducted by Volunteer State Community College in association with the Programs in Allied Health.

Clinical education begins the first semester and continues throughout the two-year program. Baptist Hospital, Saint Thomas Hospital, and Vanderbilt Hospital are all affiliated as clinical sponsors.

Graduates receive an Associate of Science degree from Volunteer State and a certificate of completion from Vanderbilt University and are eligible to take the national examination given by the American Registry of Radiologic Technologists.

Other Health Profession Programs

Program in Surgical Technology

The one-year program in Surgical Technology is designed to train students to function as scrub techs in the Operating Room during surgical procedures. This program is conducted in conjunction with Nashville State Area Vocational Technical School, where all students take courses in Microbiology, Anatomy and Physiology, and Medical Terminology. Their clinical experience is in the Vanderbilt University Hospital Operating Rooms. Following completion of the program, students are eligible to take the national examination for certification conducted by the Association of Surgical Technologists.

Internships in Nursing

These six-month training programs are designed to train Registered Nurses in specialty areas such as operating room nursing, oncology nursing, pediatric intensive care nursing, general medical-surgical nursing, obstetrical nursing, and emergency nursing. Interns are linked with preceptors for clinical training and do guided independent study in their specialty. Upon completion of the internship, Registered Nurses will have the in-depth knowledge and the well-developed skills required to care for the patient population served by the specialty.

Program in Hearing and Speech Sciences

The M.A., M.S., and Ph.D. degrees in Hearing and Speech Sciences are offered by the Vanderbilt University Graduate School. See the *Graduate School Catalog* for current program information and course listings.

The program of studies leading to the master's degree requires five semesters of academic and clinical preparation, including a 10-week clinical or research externship. The program is both ESB and PSB certified by the American Speech-Language-Hearing Association, with degree requirements meeting and exceeding those required for ASHA certification. Practicum sites include the Bill Wilkerson Hearing and Speech Center, Vanderbilt University Medical Center, John F. Kennedy Center, VA Medical Center, and several other hospitals in the Nashville metropolitan area.

Preparation for the doctoral degree includes a minimum of two years of academic course work, research competency demonstrated through two projects, and the dissertation. Research interests of the faculty include basic and applied psychoacoustics, speech perception and production, child language acquisition and disability, and audiological management. The division supports a number of research laboratories, including an anechoic chamber, and maintains a MicroVAX II computer, three PDP-11 computers, and a variety of personal computers.





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Joseph L. Mulherin, Jr.
Wallace W. Neblett III
Loren D. Nelson
Philip J. Noel, Jr.
William A. Nylander, Jr.
Jefferson C. Pennington
Malcolm Oliver Perry
David R. Pickens, Jr.
John B. Pietsch
M. Kathleen Reilly
Vernon H. Reynolds
William O. Richards
Robert E. Richie
Lansdon B. Robbins II
H. William Scott, Jr.
Kenneth W. Sharp
Richard B. Terry
David H. Van Buren
George Waterhouse
Lester F. Williams, Jr.
John K. Wright

Neurological Surgery

GEORGE S. ALLEN, Neurosurgeon-in-Chief
Vaughan A. Allen
Verne E. Allen
Rex E. H. Arendall II
Bennett Blumenkopf

Arthur G. Bond III
Cully A. Cobb, Jr.
Arthur Cushman
Carl Richard Hampf
James W. Hays

Ray W. Hester
 Everette I. Howell, Jr.
 Robert J. Maciunas
 Paul Raymond McCombs
 Warren F. McPherson

William F. Meacham
 Timothy P. Schoettle
 Harold P. Smith
 Noel B. Tulipan

Oral Surgery

H. DAVID HALL, Oral Surgeon-in-Chief
 Jeffrey B. Carter
 Elmore Hill
 Samuel Jay McKenna

James W. Nickerson, Jr.
 Stanley C. Roddy, Jr.
 Anthony P. Urbaneck

Otolaryngology

ROBERT H. OSSOFF, Otolaryngologist-in-Chief
 Clyde V. Alley, Jr.
 Ronald C. Cate
 Jack A. Coleman, Jr.
 Jerrall P. Crook
 William G. Davis
 William L. Downey
 James A. Duncavage
 Edwin Boyette Emerson
 Michael E. Glasscock III

Hiranya Gowda
 Daniel R. Hightower
 C. Gary Jackson
 Saleem I. Naviwala
 James L. Netterville
 William Russell Ries
 Mitchell Keith Schwaber
 Jay A. Werkhaven
 John D. Witherspoon

Pediatric Surgery

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

George W. Holcomb, Jr.
 John B. Pietsch

Plastic Surgery

JOHN B. LYNCH, Chief of Plastic Surgical Service
 Ronald M. Barton
 David G. Bowers, Jr.
 Reuben A. Bueno
 James H. Fleming, Jr.
 Philip E. Fleming

Kevin F. Hagan
 James J. Madden, Jr.
 Takis Patikas
 Greer Ricketson
 R. Bruce Shack

Thoracic and Cardiac Surgery

HARVEY W. BENDER, JR., Chief of Thoracic and Cardiac Service
 William H. Frist

John W. Hammon, Jr.
 Walter H. Merrill
 James R. Stewart

Urological Surgery

W. SCOTT MCDUGAL, Urologist-in-Chief
 Robert B. Barnett
 H. Victor Braren
 John W. Brock III
 Oscar Carter

William Crenshaw
 Charles W. Eckstein
 Robert H. Edwards
 Robert B. Faber
 John R. Furman

Keith W. Hagan
Albert P. Isenhour
Frederick Kirchner, Jr.
Michael O. Koch
Robert E. McClellan
David H. Morgan
Thomas E. Nesbitt
Thomas E. Nesbitt, Jr.

Phillip P. Porch, Jr.
Robert A. Sewell
J. Douglass Trapp
John M. Tudor
Bruce I. Turner
John J. Warner
Claude H. Workman III.

House Staff 1989/90

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

| | | |
|------------------------|--------------------------|----------------------|
| Julie L. Abbott | Medicine | L-3 |
| Byron C. Abels, Jr. | Surgery | L-4 |
| Steven R. Abram | Neurosurgery | L-5 |
| Judith B. Akin | Psychiatry | L-4 |
| Jean Kay Alexander | Medicine | L-2 |
| D. Phillips Altenbern | Obstetrics/Gynecology | L-2 |
| Al S. Aly | Otolaryngology | L-4 |
| P. Brad Anderson | Psychiatry | L-4 |
| William D. Anderson | Medicine | L-2 |
| Walid S. Arnaout | Surgery | L-1 |
| Casey C. Arney | Psychiatry | L-2 |
| Timothy L. Arney | Anesthesiology | L-2 |
| Maria Carmen Arzubiaga | Dermatology | L-4 |
| John H. Arnold | Surgery | Lab |
| Robert B. Ash | Dermatology | L-4 |
| S. Len Auman | Anesthesiology | L-2 |
| John C. Austin | Cardiac/Thoracic Surgery | L-8 |
| Alan F. Bachrach | Neurology | L-3 |
| David L. Baker | Medicine | L-2 |
| Robert H. Ball | Obstetrics/Gynecology | Chief Resident |
| Frederick E. Barr | Pediatrics | L-2 |
| Anne P. Bartek | Psychiatry | L-4 |
| Charles E. Bea | Radiology | L-3 |
| Thaddeus A. Beeker | Medicine | L-1 |
| Richard A. Berkman | Neurosurgery | L-3 |
| Robert J. Berkompas | Medicine | Chief Resident (NGH) |
| David B. Berry | Obstetrics/Gynecology | L-3 |
| Katherine A. Bertram | Medicine | L-3 |
| Nancy G. Beveridge | Pediatrics | L-2 |
| Richard E. Blackburn | Neurology | L-3 |
| William E. Blalock III | Medicine | L-2 |
| Robert H. Blanton | Surgery | L-1 |
| Steven M. Blout | Radiology | L-1 |
| Raymond F. Bluth | Pathology | L-1 |
| Ian Boiskin | Radiology | L-3 |
| Bruce S. Boliek | Medicine | L-3 |
| Kevin H. Bond | Surgery | L-1 |
| Lorie M. Booth | Pediatrics | L-2 |
| Patrick J. Bosque | Neurology | L-3 |

| | | |
|--------------------------|-----------------------|----------------|
| Inez B. Bounds | Ophthalmology | Chief Resident |
| Patricia L. Bowers | Anesthesiology | L-4 |
| Nathan F. Bradford | Medicine/Pediatrics | L-1 |
| Mark Branch III | Medicine | L-3 |
| Roy Alex Brandell | Surgery | L-1 |
| Jan L. Brandes | Medicine | L-1 |
| William A. Brennan | Neurosurgery | L-2 |
| Robert A. Brodsky | Medicine | L-1 |
| Stephen L. Buckley | Obstetrics/Gynecology | L-2 |
| John R. Bumgarner | Radiology | L-1 |
| Roy P. Burch, Jr. | Obstetrics/Gynecology | L-3 |
| David A. Burns | Child Psychiatry | L-4 |
| Daniel S. Burrus | Orthopaedics | L-4 |
| J. Blair Butler | Radiology | L-2 |
| L. Susan Byers | Medicine | L-2 |
| Kerstin E. Calia | Medicine | L-1 |
| James T. Callis | Vascular Surgery | L-9 |
| Stephen B. Cantrell | Oral Surgery | L-1 |
| Theresa J. Carducci | Obstetrics/Gynecology | L-1 |
| Laurence C. Carmichael | Medicine | L-2 |
| Donald G. Catron | Psychiatry | L-4 |
| Mark A. Cavitt | Psychiatry | L-1 |
| Robert D. Cebul | Surgery | Chief Resident |
| A. Alfred Chahine | Surgery | L-1 |
| William C. Chapman | Surgery | L-4 |
| Michael Lee Cheatham | Surgery | L-1 |
| Susan Heil Cheatham | Pediatrics | L-1 |
| Philip N. Chironis | Otolaryngology | L-6 |
| Michael Jon Chmell | Surgery | L-1 |
| Jim C. Chow | Dermatology | Chief Resident |
| Benjamin S. Citrin | Medicine | L-1 |
| Craig A. Clark | Psychiatry | L-2 |
| Francis J. Clark | Ophthalmology | L-3 |
| Charles C. Coleman | Child Psychiatry | L-4 |
| Raoul S. Concepcion | Urology | Chief Resident |
| John L. Cooper | Neurology | L-4 |
| Michael L. Copeland | Surgery | L-1 |
| Frank A. Cornella | Oral Surgery | L-1 |
| David M. Coussens | Urology | L-3 |
| David R. Cox | Medicine | L-1 |
| Kathryn E. Cramer | Orthopaedics | L-4 |
| Keith L. Crawley | Anesthesiology | L-4 |
| Robert A. Crone | Anesthesiology | L-2 |
| J. Allen Crow | Medicine | L-3 |
| Bruce P. Crowley | Ophthalmology | L-3 |
| Nancy J. Crowley | Surgery | (on leave) |
| Marlene F. Daher | Pediatrics | L-1 |
| Stephen M. Dahlstedt | Urology | L-4 |
| Christopher V. Davenport | Psychiatry | L-3 |

| | | |
|------------------------|-----------------------|----------------------|
| Gregory G. Davis | Pathology | L-3 |
| John V. Davis | Psychiatry | L-3 |
| Karen F. Davis | Obstetrics/Gynecology | Chief Resident |
| Karon Dawkins | Psychiatry | Chief Resident |
| David A. DeBoer | Surgery | L-3 |
| William D. Denney | Medicine | L-3 |
| Joel Ray Dickens | Pediatrics | L-1 |
| Mitchell A. Dickson | Anesthesiology | Chief Resident |
| Alexander G. Digenis | Surgery | L-2 |
| Paul D. DiGiovanni | Pathology | L-1 |
| Stephen C. M. DiRusso | Surgery | L-1 |
| Bernard R. Drexinger | Neurology | L-4 |
| James G. Drougas | Surgery | L-1 |
| Rita R. Dubey | Pediatrics | L-2 |
| Thomas E. Ducker | Medicine | L-2 |
| Kathleen S. Dutt | Pathology | L-3 |
| Katherine A. Dykes | Obstetrics/Gynecology | L-2 |
| Lynn Ebaugh | Medicine | L-2 |
| Dean A. Edwards | Medicine | L-1 |
| Curtis Elam | Obstetrics/Gynecology | L-2 |
| C. Craig Elkins | Surgery | L-2 |
| Mary Ann Ellis | Obstetrics/Gynecology | Chief Resident |
| Roy E. Erb | Radiology | L-1 |
| Mitchell D. Evans | Anesthesiology | L-4 |
| Rudolph P. Fedrizzi | Obstetrics/Gynecology | L-1 |
| Will Ferrin | Medicine | L-3 |
| Edgar W. Finn | Psychiatry | L-2 |
| Donn S. Fishbein | Pathology | L-4 |
| Cecelia G. Fisher | Pathology | L-1 |
| Jeri E. Fitzpatrick | Psychiatry | L-3 |
| William F. Fleet III | Medicine | Chief Resident (VUH) |
| Mark D. Flora | Urology | L-5 |
| Howard W. Follis | Urology | L-5 |
| Jeanne M. Foose | Pediatrics | L-3 |
| Gary L. Foster | Medicine | L-2 |
| Eduardo Fraiefeld | Anesthesiology | L-3 |
| Nicola A. Francalancia | Surgery | L-2 |
| Jenny Jo Franke | Urology | L-3 |
| Daniel L. Friedman | Psychiatry | L-2 |
| Wallace L. Friedman | Anesthesiology | L-4 |
| Beverly F. Fuller | Obstetrics/Gynecology | L-2 |
| Karsten Gammeltoft | Neurology | L-5 |
| Audrey M. Garrett | Medicine | L-1 |
| Richard J. Geer | Surgery | Chief Resident |
| Joseph Gigante | Pediatrics | L-2 |
| Jeffrey J. Gleason | Obstetrics/Gynecology | L-1 |
| Richard E. Goldstein | Surgery | Chief Resident |
| Holly C. Good | Medicine | L-1 |

| | | | |
|-------------------------|-----------------------|-----------------------|-----|
| Stacey Ann Goodman | Medicine | | L-3 |
| Steven D. Graham | Neurology | | L-3 |
| Cornelia R. Graves | Obstetrics/Gynecology | | L-3 |
| Daniel A. Green | Orthopaedics | Chief Resident | |
| D. Michael Greer | Psychiatry | | L-2 |
| Donald W. Griffin | Surgery | | L-2 |
| Sean P. Groark | Medicine | | L-1 |
| A. Steven Gross | Dermatology | | L-3 |
| Debra E. Grove-Mahoney | Pathology | | L-5 |
| Gregg S. Gurwitz | Surgery | | L-1 |
| James S. Hagood | Pediatrics | | L-3 |
| M. Craig Hall | Urology | | L-3 |
| Richard D. Hammer | Pathology | | L-2 |
| Paul R. Hancock | Medicine | | L-3 |
| C. Mac Harmon | Surgery | | L-4 |
| Christopher E. Harris | Pediatrics | | L-3 |
| Laurel R. Harris | Ophthalmology | | L-3 |
| Sarah E. Hassell | Pediatrics | | L-2 |
| David S. Haynes | Otolaryngology | | L-3 |
| James M. Heery | Medicine | | L-3 |
| Lee B. Heery | Pediatrics | | L-3 |
| Paul J. Heil | Pediatrics | | L-2 |
| Shannon L. Hersey | Anesthesiology | | L-3 |
| Barry A. Hicks | Surgery | | L-4 |
| Michael S. Higgins | Medicine | | L-1 |
| Michael D. Hill | Psychiatry | | L-1 |
| Edward E. Hockaday, Jr. | Anesthesiology | | L-3 |
| Robert G. Hoehn | Psychiatry | | L-1 |
| Steven J. Hoff | Surgery | | Lab |
| James Holbrook | Radiology | | L-3 |
| Robert R. Holcomb | Neurology | | L-3 |
| Edsel P. Holden | Medicine | | L-2 |
| Larry R. Holder | Radiology | Chief Resident | |
| Robert A. Hollis | Medicine | | L-2 |
| Michael D. Holzman | Surgery | | L-2 |
| Anne R. Horan | Ophthalmology | | L-3 |
| Abbott B. Huang | Surgery | | L-2 |
| Mark A. Hughes | Child Psychiatry | | L-4 |
| Kraig E. Humbaugh | Pediatrics | | L-1 |
| Stephen C. Humble | Psychiatry | | L-3 |
| Joel C. Hutcheson | Surgery | | L-1 |
| Stephen A. Hutto | Medicine | | L-2 |
| Robert E. Ivy | Orthopaedics | | L-2 |
| Cynthia Ann Janes | Psychiatry | | L-1 |
| John A. Jernigan | Medicine | Chief Resident (St.T) | |
| Joyce E. Johnson | Pathology | | L-4 |
| Paul H. Johnson | Surgery | | L-4 |
| Thomas S. Johnston | Medicine | | L-2 |

| | | |
|---------------------------|--------------------------|----------------|
| Kenneth W. Johnstone | Anesthesiology | L-3 |
| David L. Jolgren | Radiology | L-3 |
| Clement K. Jones | Orthopaedics | L-5 |
| J. Stephen Jones | Urology | L-4 |
| J. Edward Jordan III | Medicine | L-3 |
| Patrick A. Juneau III | Neurosurgery | L-4 |
| Shelly P. Kafka | Medicine | L-2 |
| Asha R. Kallianpur | Medicine | L-2 |
| Mark R. Kaplan | Medicine | L-2 |
| Philip A. G. Karpos | Surgery | L-1 |
| Michael D. Katz | Neurology | L-4 |
| Esam Kazem | Pediatrics | L-1 |
| Robert E. Kearney | Plastic Surgery | L-6 |
| Jodi H. Keeler | Pediatrics | L-1 |
| Stephen L. Keeler | Medicine | L-1 |
| Frank G. Keller | Medicine/Pediatrics | L-4 |
| Robert E. Kelly, Jr. | Surgery | (on leave) |
| Craig M. Kemper | Neurosurgery | L-2 |
| Travis E. Kidd, Jr. | Pathology | Chief Resident |
| James C. King III | Radiology | L-3 |
| L. Douglas King | Child Psychiatry | L-5 |
| Michael A. King | Neurosurgery | Chief Resident |
| Raymond S. Kirchmier, Jr. | Orthopaedics | L-2 |
| Glenn A. Koester | Medicine | L-1 |
| Neil W. Kooy | Pediatrics | L-3 |
| Michael J. Koriwchak | Surgery | L-2 |
| Samir Koussa | Pediatrics | L-1 |
| Jane K. Kramer | Medicine | L-2 |
| Alan D. Krys | Anesthesiology | L-2 |
| Bryan R. Kurtz | Obstetrics/Gynecology | L-3 |
| James G. Kyser | Psychiatry | L-3 |
| Lacrampe, Marc J. | Radiology | L-1 |
| Lagerstrom, Carl F. | Cardiac/Thoracic Surgery | L-7 |
| Robert P. Lagrone | Medicine | L-3 |
| Peter M. Lake | Child Psychiatry | L-4 |
| Janice F. Lalikos | Surgery | L-2 |
| Ruth E. Lamar | Medicine | L-3 |
| John R. Lane | Medicine | L-1 |
| Gregory B. Lanford | Neurosurgery | L-6 |
| W. Henry Langhorne | Medicine | L-3 |
| Robert J. Lanoue | Neurology | Chief Resident |
| Leslie Ann Larsen | Medicine | L-1 |
| John L. Laubenthal | Psychiatry | L-2 |
| Rodolfo Laucirica | Pathology | L-5 |
| Laurie M. Lawrence | Medicine | L-2 |
| Brent T. Layton | Radiology | L-3 |
| James T. Lee, Jr. | Medicine | L-2 |
| Robert B. Lee | Surgery | Chief Resident |
| Thomas W. Lee | Anesthesiology | L-4 |

| | | |
|------------------------|-----------------------|----------------|
| LeMense, Gregory P. | Medicine | L-1 |
| Wayne J. Lennington | Pathology | L-3 |
| Ann B. Lettes | Child Psychiatry | L-5 |
| Jeffrey H. Levine | Surgery | Lab |
| Levy-Brothers, Troy E. | Obstetrics/Gynecology | L-1 |
| Don M. Lewis | Plastic Surgery | L-7 |
| L. Glen Lewis, Jr. | Pediatrics | L-2 |
| Thomas J. Lewis, Jr. | Medicine | L-1 |
| William H. Leyva | Dermatology | Chief Resident |
| George H. Lien | Neurosurgery | L-6 |
| David L. Liland | Plastic Surgery | L-7 |
| Scott A. Lile | Medicine | L-2 |
| Lana L. Long | Medicine | L-2 |
| G. Keith Lovelady | Medicine | L-2 |
| Edward J. MacInerney | Medicine | L-1 |
| David J. Magee | Medicine | L-1 |
| Nelson J. Mangione | Medicine | L-1 |
| Gary R. Margolies | Medicine | L-3 |
| Murphy S. Martin | Medicine | L-2 |
| Samuel A. Mascorro III | Anesthesiology | L-2 |
| Salim A. Matar | Otolaryngology | L-5 |
| Mark D. Mathis | Anesthesiology | L-3 |
| Francisco J. Mayorquin | Pathology | L-1 |
| Kristina K. McCain | Obstetrics/Gynecology | L-3 |
| Robert W. McCain | Medicine | L-3 |
| Daniel K. McCammon | Medicine | L-3 |
| Joseph W. McCord | Anesthesiology | L-2 |
| Katherine W. McCune | Neurology | L-3 |
| Gary R. McDonald | Medicine | L-2 |
| Colin M. McDonough | Medicine | L-2 |
| Joseph M. McElwee | Psychiatry | L-2 |
| Mark A. McFerran | Orthopaedics | L-3 |
| David M. McGrath | Anesthesiology | L-3 |
| Carol McHugh | Surgery | L-2 |
| Mark R. McIlwain | Oral Surgery | L-1 |
| Mary S. McKee | Radiology | L-3 |
| Bruce C. McLeod | Oral Surgery | L-1 |
| Ibrahim A. Melki | Surgery | L-2 |
| David A. Miller | Obstetrics/Gynecology | L-2 |
| Jami L. Miller | Medicine | L-2 |
| Thomas P. Mills | Medicine | L-3 |
| John A. Mitchell | Medicine | Lab |
| James C. Mixon | Pathology | L-3 |
| David J. Moliterno | Medicine | L-3 |
| Kelly L. Molpus | Obstetrics/Gynecology | L-1 |
| Jamie M. Monroe | Ophthalmology | L-2 |
| Edson B. Moody | Nuclear Medicine | L-2 |
| David E. Moore | Radiology | Chief Resident |
| Francis M. Moran | Anesthesiology | L-2 |
| Patrick J. Morello | Medicine | L-2 |

| | | |
|-------------------------|-----------------------|---------------------|
| Charles A. Moss | Pediatrics | L-3 |
| Mark A. Mozer | Pediatrics | L-2 |
| Mroczkowski, Patrick J. | Medicine | L-1 |
| Ehab Y. Nasrallah-Hanna | Surgery | L-1 |
| Thomas C. Naslund | Surgery | Chief Resident |
| Rupa Natesha | Pediatrics | L-1 |
| Robert L. Neidich | Medicine | L-1 |
| Eugene H. Nelson | Pathology | L-3 |
| Lisa C. Nelson-Robinson | Surgery | L-2 |
| Daniel F. Neuzil | Surgery | L-3 |
| Kathleen M. Neuzil | Medicine | L-3 |
| David L. Newsom | Ophthalmology | L-3 |
| Tuan G. Nguyen | Anesthesiology | L-4 |
| Dante V. Nuzzo | Medicine | L-1 |
| Danny E. Oaks | Anesthesiology | L-4 |
| Dennis M. O'Donnell | Radiology | L-4 |
| Dolores C. Olivarez | Medicine | L-3 |
| Bryan D. Oslin | Surgery | L-2 |
| Molly P. O'Toole | Psychiatry | L-3 |
| Steven L. Outly | Anesthesiology | L-3 |
| Ann B. Owen | Radiology | Chief Resident |
| Kenneth L. Parish | Surgery | L-4 |
| William Brad Parker | Orthopaedics | L-4 |
| Harshila R. Patel | Pediatrics | L-1 |
| W. Yvonne Pawlowski | Pediatrics | L-2 |
| R. Stokes Peebles | Medicine | Chief Resident (VA) |
| Debra Kern Pennington | Radiology | L-2 |
| Karen J. Phillips | Nuclear Medicine | L-3 |
| Joel D. Pickett | Neurosurgery | L-4 |
| Douglas W. Picton | Radiology | L-1 |
| Donald F. Pierce, Jr. | Surgery | L-3 |
| Sharon M. Piper | Obstetrics/Gynecology | L-3 |
| Gretchen R. Poetschke | Pediatrics | L-3 |
| William H. Polk, Jr. | Surgery | Lab |
| John C. Pope IV | Surgery | L-1 |
| Timothy A. Powell | Medicine/Pediatrics | L-1 |
| Nancy H. Prysli | Anesthesiology | L-4 |
| Karen L. Putnam | Pediatrics | L-2 |
| Sherif M. I. Ragheb | Otolaryngology | Chief Resident |
| Charles W. Randall | Medicine | L-2 |
| Edmund W. Raycraft | Orthopaedics | Chief Resident |
| Bhaskar C. A. Reddy | Anesthesiology | L-3 |
| Tanuja Reddy | Psychiatry | L-2 |
| John J. Reese | Pediatrics | L-3 |
| Mark E. Reiber | Surgery | L-1 |
| David B. Richards | Orthopaedics | L-3 |
| Frederick Lee Richards | Anesthesiology | L-2 |
| Karla J. Richey | Surgery | L-4 |

| | | |
|--------------------------|-----------------------|----------------|
| Curtis M. Rimmerman | Medicine | L-3 |
| Heidi F. Rinehart | Obstetrics/Gynecology | L-1 |
| Ryan M. Roberts | Medicine | L-3 |
| J. Bruce Robertson | Surgery | L-2 |
| Ming Hsu Robinson | Obstetrics/Gynecology | L-2 |
| Richard E. Rochester | Psychiatry | L-3 |
| James F. Roesel | Surgery | L-1 |
| Richard L. Rosemond | Obstetrics/Gynecology | Chief Resident |
| Charles B. Ross | Surgery | Chief Resident |
| James E. Roth | Anesthesiology | L-4 |
| David M. Rummel | Surgery | L-1 |
| Thomas C. Rushton | Medicine | L-1 |
| Linda A. Ruziczka | Ophthalmology | L-1 |
| Paul J. Sabbatini | Medicine | L-1 |
| Michael A. Samuel | Anesthesiology | L-2 |
| Roy Q. Sanders | Psychiatry | L-4 |
| Christopher D. Sarzen | Medicine | L-2 |
| Mark A. Sauer | Anesthesiology | L-3 |
| Eric L. Saunders | Radiation Oncology | L-3 |
| Tobias Schifter | Radiology | L-4 |
| John G. Schulte | Medicine | L-2 |
| Stephen J. Schwartz | Anesthesiology | L-2 |
| Margie Ann Scott | Pathology | L-2 |
| Lauren C. Seeberger | Neurology | L-2 |
| John G. Seiler III | Orthopaedics | Chief Resident |
| Timothy L. Sell | Surgery | L-3 |
| Kara Jane Sellers | Medicine | L-1 |
| Samuel R. Sells III | Psychiatry | L-4 |
| Hrayr K. Shahinian | Surgery | L-4 |
| Elizabeth P. Sharpless | Psychiatry | L-1 |
| Mark D. Shepherd | Medicine/Pediatrics | L-4 |
| Deborah D. Sherman | Ophthalmology | Chief Resident |
| Leslie A. Shinobu | Medicine | L-1 |
| Thomas E. Schockley, Jr. | Orthopaedics | L-4 |
| Maria A. Simon | Pathology | L-3 |
| Robbin B. Sinatra | Ophthalmology | L-2 |
| Roger D. Smalligan | Medicine/Pediatrics | L-3 |
| Lenwood P. Smith, Jr. | Neurosurgery | Chief Resident |
| Sidney P. Smith III | Medicine | L-3 |
| William B. Smith | Allergy/Immunology | L-5 |
| Christopher L. Sneed | Neurosurgery | L-3 |
| David H. Sniadack | Medicine | L-2 |
| Suzanne R. Snyder | Medicine/Pediatrics | L-3 |
| Matthew Alan Solberg | Pediatrics | L-3 |
| Andrew H. Sonin | Radiology | L-2 |
| Eric S. Spotts | Obstetrics/Gynecology | L-3 |
| Stephanie E. Spottswood | Radiology | L-3 |
| Raymond F. Stainback | Medicine | L-3 |
| Scott C. Standard | Surgery | L-1 |
| Jill Steier | Obstetrics/Gynecology | Chief Resident |

| | | |
|-------------------------|--------------------------|----------------|
| Brian D. Stenberg | Surgery | L-3 |
| Anthony W. Stephens | Medicine | L-2 |
| G. Christopher Stephens | Orthopaedics | L-2 |
| Emily J. Stevens | Surgery | L-1 |
| Bonni Lee Stewart | Medicine | L-2 |
| Kurt T. Stockamp | Surgery | L-2 |
| Douglas W. Stokes | Ophthalmology | L-2 |
| Robert H. Stowe | Anesthesiology | L-4 |
| N. Tripp Stuart III | Anesthesiology | L-3 |
| Robert O. Stuart III | Medicine | L-1 |
| Tony Hun-Hwon Su | Medicine | L-2 |
| Pebble Jones Sutherland | Pediatrics | L-1 |
| Eric M. Sweterlitsch | Medicine | L-1 |
| Ulysses M. Tandoc | Anesthesiology | L-2 |
| S. Scott Tapper | Surgery | Lab |
| Nicholas G. Tarasidis | Otolaryngology | L-5 |
| Salik Taufiq | Pediatrics | L-1 |
| Mark W. Teague | Pathology | L-1 |
| Lisa D. Testa | Oral Surgery | L-1 |
| John S. Thabes | Medicine | L-1 |
| Scott T. Thellman | Surgery | L-4 |
| Anthony Lee Thomas | Medicine | L-2 |
| Gregory A. Thompson | Medicine | L-1 |
| Stefan Tigges | Radiology | L-2 |
| Sandra S. Tomita | Surgery | L-2 |
| Bill H. Torres | Medicine | L-2 |
| A. P. Truett III | Dermatology | L-2 |
| Parvin Vafai | Pediatrics | L-2 |
| Johnathan P. Vansant | Nuclear Medicine | L-5 |
| Joji A. H. Vaughn | Medicine | L-3 |
| Richard F. Vaughn | Medicine | L-3 |
| Jeffrey T. Vrabec | Otolaryngology | L-4 |
| John A. Waites | Medicine | L-2 |
| Ann Walia | Anesthesiology | L-2 |
| Eloisa S. Walker | Pediatrics | L-3 |
| Robert N. Walker | Orthopaedics | L-3 |
| Melissa L. Wall | Dermatology | L-4 |
| James H. Wamack, Jr. | Pediatrics | Chief Resident |
| Gregory P. Warren | Medicine | L-1 |
| Samuel R. Watkins, Jr. | Urology | Chief Resident |
| Graeme H. Watt | Nuclear Medicine | L-2 |
| Robert T. Watts, Jr. | Oral Surgery | L-1 |
| John H. Webb | Medicine | L-1 |
| Jeffry C. Webber | Medicine | L-1 |
| Donalt T. Weed | Surgery | L-1 |
| Chris J. Wehr | Cardiac/Thoracic Surgery | L-8 |
| Douglas R. Weikert | Orthopaedics | L-3 |
| Michael B. Wein | Medicine | L-1 |

| | | |
|--------------------------|-----------------------|----------------|
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| David A. Welsh | Medicine | L-1 |
| Stephen G. Werth | Dermatology | L-3 |
| John R. Werther | Oral Surgery | Chief Resident |
| Tamara J. Wheeler | Pediatrics | L-1 |
| Thomas C. Wheeler | Obstetrics/Gynecology | L-1 |
| Gwendolyn L. White | Psychiatry | L-3 |
| Houston W. White | Anesthesiology | L-3 |
| Therese L. Whitten | Obstetrics/Gynecology | Chief Resident |
| Brian M. Wickwire | Medicine | L-1 |
| Mark H. Widick | Otolaryngology | L-3 |
| Michael P. Widick | Surgery | L-1 |
| Carlos J. Wilkerson | Anesthesiology | L-3 |
| Mary K. Wilkin | Pediatrics | L-2 |
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| Richard F. Williams, Jr. | Surgery | Lab |
| Brett L. Wilson | Pediatrics | L-2 |
| Gregory J. Wilson | Pediatrics | L-3 |
| Natalia A. Wilson | Medicine | L-2 |
| Scott D. Wilt | Pediatrics | L-2 |
| Matthew W. Wood | Medicine | L-1 |
| Robert C. Wood | Radiology | L-2 |
| Robert C. Woods | Medicine | L-2 |
| Mark T. Wright | Psychiatry | L-1 |
| Rick W. Wright | Orthopaedics | L-2 |
| James H. Wudel | Surgery | L-3 |
| Donna Lee Wyche | Allergy/Immunology | L-4 |
| Stephen J. Yallourakis | Oral Surgery | Chief Resident |
| Yates, Michael D. | Plastic Surgery | L-8 |
| Ruth Ann Yates | Dermatology | L-2 |
| Lemuel G. Yerby | Surgery | Chief Resident |
| Mark A. Zenker | Medicine | L-1 |

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