# Vanderbilt University Medical Center Center for Programs in Allied Health

2022-2023 Program Catalog

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# ABOUT VANDERBILT UNIVERSITY MEDICAL CENTER

WEBSITE: www.vumc.org

Vanderbilt University Medical Center (VUMC) is a comprehensive healthcare facility dedicated to patient care, research, and biomedical education. Its reputation for excellence in each of these areas has made VUMC a major patient referral center for the Mid-South. Each year, people throughout Tennessee and the Southeast choose VUMC for their health care needs, not only because of its excellence in medical science, but also because the faculty and staff are dedicated to treating patients with dignity and compassion.

The Vanderbilt Clinic accommodates over 573,000 outpatient visits, in addition to hospital admissions in excess of 31,000, with a substantial number of patients from outside Tennessee. A principal referral center for physicians and patients throughout the region, Vanderbilt University Hospital and The Vanderbilt Clinic consistently rank among the premier health care facilities in the United States. Many of the services offered by Vanderbilt University Medical Center have been ranked among the foremost programs in the nation by U.S. News &World Report's listing of "America's Best Hospitals". Vanderbilt's programs in cancer; cardiology and heart surgery; digestive tract; ear, nose and throat; hormonal disorders; gynecology; orthopedics; respiratory care; rheumatology; and urology were assessed among the top such programs in hospitals nationwide.

Vanderbilt University Medical Center (VUMC) is a major medical treatment, research and education institution comprised of many hospitals and buildings, including Vanderbilt University Hospital (VUH), Rudolph Light Hall (LH), Medical Center North (MCN), Vanderbilt Children's Hospital (VCH), Medical Center East (MCE), and The Vanderbilt Clinic (TVC). VUMC serves the health care needs of the Nashville community and the surrounding areas of Middle Tennessee, southern Kentucky and northern Alabama. VUMC is dedicated to patient care, biomedical research, and education for health care professionals.

Among Vanderbilt's specialty clinics are the Henry-Joyce Cancer Clinic and Clinical Research Center, the patient care arm of the Vanderbilt-Ingram Cancer Center (VICC). The VICC, a National Cancer Institute Clinical Cancer Center, provides comprehensive care for cancer patients along with basic and bench-to- bedside research. The state-of-the-art research program provides the latest breakthroughs in treatment for our patients. Additionally, VUMC's Level I trauma center, comprehensive burn center, LifeFlight air emergency transport program, the Voice Center, the Vanderbilt Bill Wilkerson Center, and 19 specialty services of Children's Hospital, including the Level IV neonatal intensive care unit, are the only programs of their kind in middle Tennessee.

Vanderbilt University Medical Center is authorized by the Tennessee Higher Education Commission. This authorization must be renewed each year and is based on an evaluation of minimum standards concerning quality of education, ethical business practices, and fiscal responsibility.

# VUMC HISTORY AND OWNERSHIP

Vanderbilt University Medical Center has been operating non-degree allied health programs since 1929 under Vanderbilt University who is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools; accreditation has been maintained since 1895. Vanderbilt University Medical Center is a Tennessee nonprofit corporation 501(c)(3) operating five certificate programs, each accredited by a programmatic accreditor.

Until April 2016, Vanderbilt University owned and operated several hospitals and clinics collectively known as Vanderbilt University Medical Center, including Vanderbilt University Hospital, Vanderbilt Psychiatric Hospital, and Monroe Carell Jr. Children's Hospital at Vanderbilt, and their associated clinics. Effective April 30, 2016, Vanderbilt University conveyed the clinical assets used in the operation of Vanderbilt University Medical Center to a newly formed, not-for-profit, tax-exempt corporation, which is similarly named Vanderbilt University Medical Center. Vanderbilt University Medical Center now operates independently of Vanderbilt University. It is clinically and academically affiliated with Vanderbilt University.

#### **VUMC Mission**

Through the exceptional capabilities and caring spirit of its people, Vanderbilt will lead in improving the healthcare of individuals and communities regionally, nationally and internationally. We will combine our transformative learning programs and compelling discoveries to provide distinctive personalized care.

#### **VUMC Credo**

- We provide excellence in healthcare, research, and education.
- We treat others as we wish to be treated.
- We continuously evaluate and improve our performance.

#### **Credo Behaviors**

- I make those I serve my highest priority.
- I respect privacy and confidentiality.
- I communicate effectively.
- I conduct myself professionally.
- I have a sense of ownership.
- I am committed to my colleagues.

#### **VUMC** Vision

We value...

- Service to our patients and communities
- Education and research
- Respect for our patients and each other
- Quality, efficiency, and cost effectiveness
- Collaboration and
- Caring careful use of our resources

#### Center For Programs in Allied Health Mission Statement

The Center for Programs in Allied Health of Vanderbilt University Medical Center is dedicated to preparing students for excellence in their chosen career and instilling compassion and a commitment to the highest quality of patient care through transformative learning programs and access to the delivery of exemplary healthcare.

# **VUMC BOARD OF DIRECTORS**

Edith Carell Johnson, JD (Board Chair) John F. Stein (Board Vice Chair) Jeffrey R. Balser, MD, PhD Gregory Scott Allen, JD Sara J. Finley, JD Daniel Diermeier, PhD Michael M.E. Johns, MD Richard B. Johnston, Jr., MD Samuel E. Lynch, DMD, DMSc Robert C. Schiff, Jr., MD Thomas J. Sherrard, JD Alexander C. Taylor

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Executive Chief Nursing Officer, Vanderbilt University Medical Center Senior Associate Dean for Clinical Practice, Vanderbilt University School of Nursing

Derek Anderson

Director, Transformation Mgmt. & Innovation, Monroe Carell Jr. Children's Hospital at Vanderbilt, Vanderbilt University Medical Center

Donald Brady, M.D.

Executive Vice President for Educational Affairs, Vanderbilt University Medical Center Senior Associate Dean for Health Sciences Education, Vanderbilt University

**Beverly Connor** 

Chief Business Officer, Office of Health Science Education, Vanderbilt University Medical Center

Shon Dwyer

President, Vanderbilt University Medical Center, Adult Hospital

Chad Fitzgerald

Director, Quality, Safety, and Risk Prevention, Vanderbilt University Medical Center

Rochelle Johnson

Senior Director, Employee & Labor Relations, Vanderbilt University Medical Center

**Ebony McHaskell** 

Director, Center for Programs in Allied Health, Vanderbilt University Medical Center

Julia Morris

Managing Counsel, Office of Legal Affairs, Vanderbilt University Medical Center

**Thomas Nantais** 

Executive Vice President, Adult Ambulatory Operations, Vanderbilt University Medical Center

David Posch

Executive Vice President for Population Health, Vanderbilt University Medical Center

Donna Rosenstiel

Assistant Dean, Health Sciences Education

Course Director for Social Work, Vanderbilt Program in Interprofessional Learning

Margaret Rush

President, Monroe Carell Jr. Children's Hospital at Vanderbilt, Vanderbilt University Medical Center

Adam Seegmiller

Executive Medical Director, Vanderbilt University Medical Center Clinical Laboratories

Camille Steward
Division Counsel, Vanderbilt University Medical Center

Peggy Valentine Vice President, Allied Health Education

# CPIAH ADMINISTRATIVE LEADERSHIP

Jeffrey R. Balser, M.D., Ph.D.

President and CEO, Vanderbilt University Medical Center

Donald Brady, M.D.

Executive Vice President for Educational Affairs, VUMC

Senior Associate Dean for Health Sciences Education, Vanderbilt University

**Beverly Connor** 

Chief Business Officer, Office of Health Science Education, VUMC

**Ebony McHaskell** 

Director, Center for Programs in Allied Health, VUMC

Kristen Smith

Assistant Director, Center for Programs in Allied Health, VUMC

Cristina Majors

Title IV Regulations Manager, Center for Programs in Allied Health, Vanderbilt University Medical Center

Rachel Adams

Student Support Services Manager, Center for Programs in Allied Health, VUMC

Jordan Sims

Faculty and Instructional Design Manager, Center for Programs in Allied Health, VUMC

**Bernard Holmes** 

Financial Aid and Enrollment Coordinator, Center for Programs in Allied Health, VUMC

Kayla Head

Business Office Manager, Center for Programs in Allied Health, VUMC

Linda Haag

Program Manager, Center for Programs in Allied Health, VUMC

# **VUMC EDUCATIONAL FACILITIES**

Vanderbilt University Medical Center (VUMC) is a general medical and surgical facility known as a teaching hospital. The building where the administrative offices of the VUMC Center for Programs in Allied Health is located (1301 Medical Center Drive, Nashville, Tennessee 37232) is over 500,000 square feet in size. The Medical Center encompasses over 20 acres of land that house a variety of facilities from which students in the allied health programs gain knowledge and experience. Each facility has up-to-date medical equipment and supplies to serve the research / patient needs, which in turn provides students the opportunity to utilize, as their program permits, under the supervision of a qualified supervisor.

# VUMC facilities include the following buildings:

#### Vanderbilt University Adult Hospital

Vanderbilt University Hospital (VUH) opened in 1980, with the major addition of the Critical Care Tower in 2009. The hospital is dynamic, growing, and dedicated to meeting the most critical and complex needs of our region, continuing Vanderbilt's more than century-old tradition of offering the best in patient care. Many patients seen in the hospitals are from states other than Tennessee, with the majority coming from Kentucky, Alabama, and Mississippi. Adjacent and attached to VUH is Medical Center East, primarily an outpatient services building, but also housing some operating rooms, patient rooms for Labor and Delivery, the Vanderbilt Bill Wilkerson Center and the Vanderbilt Orthopedics Institute.

#### Monroe Carell Jr. Children's Hospital at Vanderbilt

The Monroe Carell Jr. Children's Hospital at Vanderbilt opened as a stand-alone facility in 2004 and is a place of hope and healing for pediatric patients and their families. Recognized as one of the premier children's hospitals in the nation by *U.S. News and World Report* for nine years running, Children's Hospital cares for the sickest patients in the region and beyond. Children's Hospital is the most comprehensive pediatric facility in Tennessee, providing services including neurosurgery, cancer treatment, trauma care, transplant, and much more. Children's Hospital operates the region's only Level I pediatric trauma unit and a neonatal intensive care unit with the highest designated level of care. The facility is filled with state-of-the-art equipment and information systems to provide the best treatment for patients. It offers a variety of family accommodations to help fulfill its mission of patient-and family- centered care. In addition, Children's Hospital is a top-ranked teaching and research facility. As a nonprofit organization, the hospital cares for children of Tennessee and surrounding states regardless of their ability to pay.

# The Vanderbilt Clinic (TVC)

The Vanderbilt Clinic is a comprehensive outpatient facility, opened in 1988 and houses more than 100 medical specialty practice areas, the clinical laboratories, a center for comprehensive cancer treatment, and a day surgery center.

# Rudolph A. Light Hall (LH)

Light Hall provides classroom and laboratory space for students in the School of Medicine. It houses the Department of Biochemistry, the Department of Molecular Physics and Biophysics, and the Howard Hughes Medical Institute.

#### Medical Research Building IV(MRB IV)

MRB IV houses a significant amount of wet lab space and supports continued growth in VUMC research programs.

#### Medical Center North (MCN)

The Newman Clinical Research Center, an inpatient orthopedic unit, and a general-care unit are inside Medical Center North. The complex also houses laboratories and administrative support services for VUMC. 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.

#### Vanderbilt Health One Hundred Oaks (OHO)

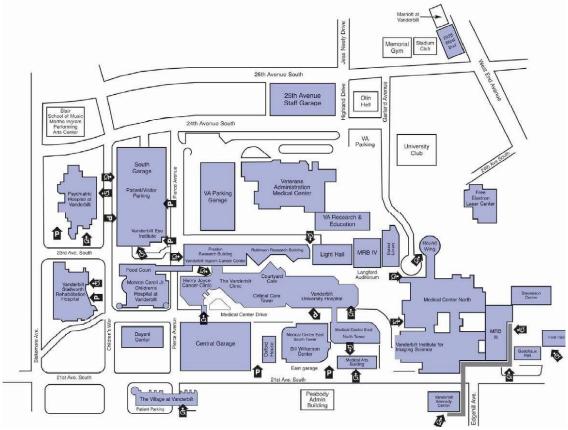
This 440,000-square-foot doctors' office suite opened for patient care in 2009 and is designed for easy access off the interstate highway system, abundant surface parking, automated check-in, and integrated services, labs, and radiology. It houses numerous specialty clinics, primary care services, and advanced imaging facilities. vanderbilthealth.com/100oaks

# Vanderbilt Dayani Center for Health and Wellness

The Vanderbilt Dayani Center is a medically based fitness/ health promotion center that specializes in modifying risk factors, for conditions including cardiovascular disease, weight management, stress, sedentary lifestyle, and smoking. It was the first Certified Medical Fitness Center in Tennessee, is closely aligned with the Department of Physical Medicine and Rehabilitation, and serves patient care, research, and education functions within VUMC. vanderbilthealth.com/dayani

#### Shade Tree Clinic

Shade Tree Clinic is a free health clinic run by Vanderbilt University medical students. Students from multiple professions provide care as part of Interprofessional teams at the clinic, and that care is supervised by physicians and other licensed professionals. Shade Tree Clinic provides a medical home for many Nashville residents with limited resources by providing exemplary primary care, care for acute & chronic illnesses, social services, and patient health education. The clinic is located in the Melrose/Berry Hill area of Nashville.



# CPIAH ADMINISTRATIVE CALENDAR

ACADEMIC YEAR 2022-2023			
New Year's Day 2022	Friday, December 31, 2021		
Martin Luther King Jr. Day 2022	Monday, January 17, 2022		
Memorial Day 2022	Monday, May 30, 2022		
Independence Day 2022*	Monday, July 4, 2022		
Labor Day 2022	Monday, September 5, 2022		
Thanksgiving 2022	Thursday, November 24, 2022 – Friday, November 25, 2022		
Christmas Eve 2022	Friday, December 23, 2022		
Christmas Day 2022 (observed)	Monday, December 26, 2022		
New Year's Day 2023	Monday, January 2, 2023		
Martin Luther King Jr. Day 2023	Monday, January 16, 2023		
Memorial Day 2023	Monday, May 29, 2023		
Independence Day 2023	Tuesday, July 4, 2023		
Labor Day 2023	Monday, September 4, 2023		
Thanksgiving Day 2023	Thursday, November 23, 2023 – Friday, November 24, 2023		
Christmas Eve 2023 Friday, December 22, 2023			
Christmas Day 2023	Monday, December 25, 2023		

These dates are when the administrative offices of the Center for Programs in Allied Health will be closed. Please refer to each program's section in this Catalog for specific program academic calendars, including starting and ending dates for educational activities.

# STUDENT SERVICES

# Academic Advising / Tutoring

Advising for the purposes of guiding students in appropriate course scheduling of courses is considered an essential part of student support services provided by VUMC and is routinely provided to students by programs. VUMC also provides students any tutoring support that may be required by a student. Academic advising for students at academic risk may be initiated by VUMC personnel or by the student when the need is identified. Students receive advising from the institution around attendance and financial aid. VUMC functions in compliance with the Americans with Disabilities Act of 1990 (ADA).

# **Career Assistance and Planning**

VUMC makes every effort to assist graduates in developing job-obtaining skills such as resume and cover letter development, interviewing skills and appropriate post-interview follow-up activities. Upon program completion, VUMC cannot guarantee employment in the field of designated completion; however, each Program Director and program faculty offer career planning within each program area. Program Directors have established rapport and work with institutions across the country and, from time to time, are able to inform students of openings in the field. VUMC cannot and does not guarantee employment or salary, but it makes every effort to assist each graduate in their job search. Each student is responsible for securing their own employment once completing the program.

# **Community Resources**

Information about national community resources is listed below:

Organization	Website	Phone Number
Alcohol Abuse and Crisis Intervention	www.aa.org	1 (615) 831-1050
Al-Anon	www.al-anon.org	1 (888) 425-2666
Drug and Alcohol Helpline	http://www.alcoholdrughelp.org.nz	1 (800) 787 797 or text 8681
Family and Children's Services	www.acf.hhs.gov	1 (800) 422-4453
National Domestic Violence Hotline	www.thehotline.org	1 (800) 799-7233
Rape Crisis Center	www.therapecrisiscenter.org	1 (888) 366-1640
Suicide Hotline	www.suicidepreventionlifeline.org	1 (800) 273-8255
United Way	www.unitedway.org	Phone: 211

The Center for Programs in Allied Health are available to work individually and confidentially with students to provide additional information and resources as needed.

# Counseling Services/Employee Assistance Program (EAP)

Vanderbilt University Medical Center offers an Employee Assistance Program known as Work/Life Connections-Employee Assistance Program (EAP):

Location: B018 Medical Arts Building (MAB), Hours: 8:00 a.m.-5:00 p.m. | Monday-Friday,

Telephone: 615-936-1327

The Employee Assistance Program (EAP) provides confidential, professional consultation, assessment, counseling and referral for students who have psychological, behavioral and/or social problems adversely affecting job performance and/or emotional health and well-being. The EAP focuses on improving the health and well-being of its clients by offering prevention services, early identification, intervention and remediation of behavioral health problems and facilitates access to necessary referral services. The EAP offers assistance for alcohol/substance abuse problems; emotional/behavioral problems; family/marital problems; financial and legal concerns; and stress-related problems.

# **Dining Facilities**

There are several facilities in VUMC where food may be purchased. Vanderbilt University Hospital – Courtyard Cafe Vanderbilt Children's Hospital – Food Court

#### **Email Accounts**

All enrolled students are assigned an official VUMC e-mail account. All school-wide and program-specific communications are provided via e-mail through their VUMC account. Students are expected to check their VUMC e-mail daily in order to be aware of important updates.

# **Enrollment Agreement**

Students are required to sign an Enrollment Agreement with VUMC at orientation. The enrollment agreement is the "contract" between the student and the school. A copy of the Enrollment Agreement is provided to students for review prior to their arrival on campus for review. An official enrollment agreement will be reviewed and executed at student orientation.

# **Identification Badges**

During orientation, VUMC-issued photo ID badges are issued to students. This badge must be worn during all program activities as a means of identification. Hospital and library access are also provided through the identification badge; entry to clinical areas for educational activities is not allowed without an official VUMC-issued ID badge.

#### Libraries

VUMC students have access and privileges to the Vanderbilt University Jean and Alexander Heard Library System, including the Eskind Biomedical Library. Library hours may vary, and updates can be found at <a href="https://www.library.vanderbilt.edu/hours.php">https://www.library.vanderbilt.edu/hours.php</a>.

Each student has access to numerous professional texts and journals through electronic Eskind Biomedical Library resources, a full Digital Library accessible with a VUNet ID and password, at: http://www.library.vanderbilt.edu/biomedical/

During each program's orientation students are provided training about how to access to library's physical and online resources. In addition, some programs have a library of reference materials resources specific to each respective profession. These libraries are generally housed in the Program Director's office, and students in the program have borrowing privileges. Information about program-specific libraries is provided during each program's orientation.

#### Occupational Health Center and Off-Campus Health Resources

Students may access services at the VUMC Occupational Health Clinic (OHC). OHC helps protect VUMC members through a variety of programs used to monitor exposure to workplace hazards and treat work-related illness and injury. OHC is located on the VUMC campus, at 1211 21st Ave. South, Medical Arts Building, Suite 640, Nashville, TN 37212. OHC also offers Faculty/Staff Express Care, a separate walk-in clinic for minor illnesses such as colds and flu.

Off campus, many Vanderbilt Health Clinics (walk-in) serve the greater Nashville community and may be utilized for illness. Services at both walk-in clinics are not free of charge, however, insurance may be accepted, depending on network participation, <a href="https://www.myhealthwalkin.com/">https://www.myhealthwalkin.com/</a>

# Orientation

Orientation to VUMC and to each program is held prior to the first day of class to welcome and acclimate new students to Vanderbilt University Medical Center. Administrative staff and Program Directors are present to provide

information to help new students transition into the academic environment. Students complete and sign Enrollment Agreements on the first day of orientation.

Occupational health screening also takes place during orientation. Students are required to provide specific health-related documentation during orientation in order to be a student at VUMC. See specific requirements under the admissions section of this catalog.

### **Parking**

The VUMC Parking and Transportation office is located in the Central Parking Garage. Hours are 7:30 AM to 5:30 PM, Monday through Friday. Parking arrangements will be made during orientation. A VUMC ID badge and state vehicle registration slip must be presented in order to register.

# Post Office

There are two branch post offices on campus, one in Medical Center North at B-0106 MCN (Station 17) and one on the lower level of Rand Hall (Station B). Each of these offers all regular services of a branch post office.

# **Security and Crime Prevention**

VUMC partners with the Vanderbilt University Police Department (VUPD) for VUMC campus security. VUPD maintains a Medical Center precinct and provides a variety of safety and crime prevention services to the VUMC community. <a href="https://police.vanderbilt.edu/">https://police.vanderbilt.edu/</a>

VUMC urges students to be aware of conditions that could potentially jeopardize their safety, to avoid hazardous situations by taking common sense measures (e.g., park in lighted areas, keep car locked, maintain possession of items such as purses or bags), and to report any suspicious activities to program or school leadership or to law enforcement. Walking escorts are available for students who wish to be escorted when walking from point to point on campus during periods of darkness. Telephone the security dispatcher at extension 1-8888. This service is also provided for those who arrive at or leave work during the early morning or late-night periods of darkness. Because the demand for escorts heightens at night, a delay should be expected at that time.

Shuttle bus service is available and operates according to the schedule published on the VUMC Parking and Transportation Services website. The shuttle buses are accessible to persons with disabilities.

# **Emergency Preparedness and Emergency Numbers**

Medical Emergency	1-1111
Occupational Health	6-0905
Environmental Health and Safety	2-2057
Plant Services	3-4443
Risk and Insurance Management	6-0660
Environmental Services	3-1000
Administrator On-Call – (VU Operator)	0
VUPD/Security	2-2745

# PROGRAM DELIVERY

Programs may be offered in the traditional in-resident format, or in a blended distance education format. Programs and courses presented in this catalog may indicate either residential or blended delivery format. Courses may use a combination of lecture, clinical activities, simulation, lab activities, and out-of-class assignments. Courses may be graded by in-class assignments, out-of-class assignments, quizzes, projects, written examinations and practical evaluation of techniques. Students in blended distance education courses should also expect to post to threaded discussions and submit written or weekly assignments electronically.

#### **Residential Format**

Students physically attend class for the scheduled hours and complete outside preparation as required. Please see program requirements in the program section of this catalog or in the Program Handbook for additional information about participation and attendance requirements.

#### **Blended Distance Education Format**

The Blended Distance Education format courses may consist of both classroom and online instruction. Students may be required to attend scheduled classroom sessions and participate in online activities, as defined by the course syllabi. Regular participation in the classroom, as well as online, is required. Please see program requirements in the program section of this catalog or in the Program Handbook for additional information about required participation and attendance. Students attending in a blended format will receive training on the navigation of Canvas and be provided with access to an orientation to assist them as they begin their respective programs. Blended distance education students have access to technical support on site through the Canvas Technical Support listed below:

#### Canvas Learn Technical Support & Requirements

Students needing technical assistance at any time may contact technical support for each application as found below:

- Canvas Student Access Help Site: Student Guide Instructure Community (canvaslms.com)
- VUMC Canvas Support: email Jordan Sims; <u>Jordan.sims@vumc.org</u>
- Canvas Browser/Computer Requirements: <a href="https://community.canvaslms.com/t5/Canvas-Basics-Guide/What-are-the-browser-and-computer-requirements-for-Canvas/ta-p/66">https://community.canvaslms.com/t5/Canvas-Basics-Guide/What-are-the-browser-and-computer-requirements-for-Canvas/ta-p/66</a>

# Learning Management System (Canvas)

Canvas is a full-fledged Learning Management System. Canvas provides user- friendly ways to create advanced tools for dynamic online activities that support each course's objectives.

Canvas:

- Easily scales up or down in size, depending on the needs of each program/course.
- Allows different course styles, from conducting fully online courses, to face-to-face courses.
- Provides activity modules (such as forums, databases and wikis) to build richly collaborative communities of learning, to deliver content to students and to assess learning using assignments or quizzes.
- Has many features, including:
  - Assignment submission
  - o Discussion forum
  - o File download
  - Grading
  - Instant messages
  - Online calendar
  - o Online news and announcement

- Online quiz
- o Multimedia integration
- Question bank
- Data analysis & reports
- Device compatibility; fully functioning iPhone and Android App
- Push notifications to devices if using the App
- All students will receive basic Canvas training during Program Orientation.

# Off-Site Learning Activities

Students are expected to provide their own transportation to and from offsite learning activity locations and assume responsibility for all risks associated with the travel, unless otherwise notified by school officials. Because offsite learning activity are scheduled during classroom training hours, students who do not participate will be considered absent for the class session and are subject to the terms of the current attendance policy. Students who are unable to participate in a scheduled offsite learning activity must contact his/her instructor and/or Program Director prior to the date of the offsite learning activity to inquire as to the possibility of completing an alternative assignment in lieu of offsite learning activity participation.

# **ADMISSIONS**

# **Accessibility for Disabled Students**

VUMC is committed to the provisions of the Rehabilitation Act of 1973 and Americans with Disabilities Act as it strives to be an inclusive community for students with disabilities. VUMC uses the definition of disability set forth in Section 504, which states that a disabled person is anyone who:

- Has a physical or mental impairment which substantially limits one or more major life activities;
- Has a record of such impairment;
- Is regarded as having such impairment.

Admissions decisions are made using criteria independent of an applicant's disability. Students with disabilities desiring to enroll in a program must be able to meet the admissions standards of VUMC. Specific concerns pertaining to services for people with disabilities or any disability issue should be directed to the Director of the Center for Programs in Allied Health.

VUMC will make efforts to provide reasonable accommodation to qualified individuals with disabilities to the extent that such accommodation is readily achievable. Though VUMC takes the needs of student with disabilities seriously, it is not able to guarantee that all services can or will be provided.

Specifically, accommodation that is unduly burdensome or fundamentally alters the nature of the service, program or activity may not be provided.

In order to receive accommodation, a student must meet the following criteria:

- Have a documented disability (documentation must be supplied) that presents a significant barrier to the educational process, and
- Request services by contacting the Director of the Center for Programs in Allied Health.

Students are required to provide medical documentation as part of their request for accommodation. All medical information remains confidential and is released to other VUMC personnel only with the student's written permission.

#### **Application Procedures**

All applications and supplemental documents are submitted electronically through the Student Information System (SIS) utilized by the Center for Programs in Allied Health – Orbund.

Each program establishes its own admission and application procedures. Please refer to the program-specific admission and application procedures in this Catalog.

# Minimum Requirements for Admission

All applicants must possess a high school diploma, a high school diploma equivalency, a current Tennessee license in the field for which the training is intended, or postsecondary credit in a degree program. If the applicant has a post-secondary degree (i.e., Associate's, Bachelor's or Master's), an official copy of the original college or university diploma, transcript or its equivalent must be provided and verified no later than 30 days after classes commence. The evidence of graduation must include the name of the institution, city, state, and graduation year, and designation of approval by the applicable governing or state authority. VUMC periodically verifies that the institution or program was approved by the applicable governing or state authority. Applicants should speak with the director of the program to which they are applying for more information.

Some programs may have additional education requirements for admission. Please check the relevant program section in this catalog for additional information.

### **Verification of High School Completion**

If VUMC has reason to suspect an applicant's high school diploma, transcript or other information is fraudulent or not valid, the Assistant Director will investigate the matter. VUMC reserves the right to deny or rescind admission in cases where fraudulence is found. If Administration doubts validity of high school completion, student will be required to submit official high school diploma or transcript with completion date. If student does not produce proof, the Assistant Director will contact the state Department of Education in which the student completed high school for confirmation. If state Department of Education cannot produce proof, the Assistant Director will deny or rescind admission to VUMC.

# Blended Programs' Admission Requirements (Distance Education)

Students applying for blended programs are assessed to ensure they have the appropriate skills and abilities necessary to succeed in the distance education components of these programs. This assessment is administered through Smarter Measure and does not take place until a student is admitted into the program. The assessment is related to the student experience with online learning management systems, in general, as well as general computer and internet experience. Only students who are deemed competent with online systems will be admitted to these programs. Experience with VUMC- specific systems is not a requirement, and training in the VUMC Learning Management System is provided early in the student's educational program.

#### Health Insurance

All Center for Programs in Allied Health students are required to be covered by health insurance during their training. VUMC does **not** offer a student health insurance policy. The student must maintain insurance through his/her tenure in the program and must provide proof of insurance (copy of health insurance card or letter from insurer) during new student orientation to the program and annually while enrolled.

# **Background Check**

All students admitted into VUMC programs are required to undergo a criminal background check prior to matriculation. Applicants are made aware on the application signature page that their VUMC enrollment is conditional upon passing a criminal background check, and instructions regarding the process of obtaining a copy of the background check for the student file are included in the student's letter of admission. VUMC requires that criminal background check reports be delivered by the screening provider directly to VUMC.

A criminal record will jeopardize eligibility for employment; therefore, students are advised to review any criminal record concerns with the Program Director prior to deciding to apply. In the event an adverse criminal history report is returned, it is reviewed by the Program Director and the Director of the Center for Programs in Allied Health. The VUMC Executive Vice President for Academic Affairs may also be consulted. Decisions regarding non-admission of students deemed unfit due to the information in criminal background reports are final.

Individual programs may require additional screening, such as fingerprinting or more extensive background check. Information for any additional required screenings is provided by programs to students at the time of admission.

### Drug Screen

All students admitted into VUMC programs are required to undergo a drug screen prior to matriculation. Applicants are made aware on the application signature page that their VUMC enrollment is conditional upon passing a drug screen. The student will be given a form at orientation to complete the necessary screening within the first 48 hours of the orientation date.

#### Immunization and Health Records

Upon acceptance, students must provide documentation of the immunization requirements listed on the Occupational Health website: <a href="https://www.vumc.org/health-wellness/all-aboard/vumc-immunization-requirements">https://www.vumc.org/health-wellness/all-aboard/vumc-immunization-requirements</a>

# **Professional Liability Insurance**

Students enrolled in VUMC programs are covered by the Vanderbilt University Medical Center liability insurance policy. The cost is paid by students as a fee. This coverage is limited only to the care participated in by students at the direction of the Program Director or designee, whether at VUMC or an official clinical education affiliate.

#### Late Enrollment

The Center for Programs in Allied Health at Vanderbilt University Medical Center does not allow late enrollment.

#### **International Applicants**

VUMC is not able to admit international students at this time. Green Card holders are not considered International Applicants and are therefore eligible for admission consideration.

### Instructional Language

At VUMC all instruction occurs in English. VUMC does not offer English as a Second Language (ESL) instruction. Applicants whose native language is not English may be required to submit scores on the Test of English as a Foreign Language (TOEFL) or International English Language Testing Service (IELTS) as part of the admission process. Program-specific requirements are provided in program sections of this catalog.

# Foreign Transcript Evaluation

Applicants whose prior education was obtained at a non-U.S. Institution are required to submit with the application for admission a full translation of the transcript into U.S. equivalency (i.e., equivalence of credits per course and of degree conferred; translation into English language <u>only</u> is NOT accepted). This translation must be conducted and provided by an independent evaluation provider. The following are examples of foreign transcript and degree evaluators. VUMC does not endorse any evaluators.

- Foreign Consultants: http://www.foreignconsultants.com/
- Educational Credential Evaluators: http://www.ece.org/
- Educational Perspectives: http://www.educational-perspectives.org/
- International Consultants of Delaware: <a href="http://www.icdeval.com/">http://www.icdeval.com/</a>
- International Research Foundation, Inc.: http://www.ierf.org/
- World Education Services: <a href="http://www.wes.org/">http://www.wes.org/</a>

# Student Technology Requirements (All Students)

Students must have a computer (desktop or laptop) with the minimum system requirements. Programs that deliver education in the distance education or blended format require the following.

#### Hardware:

- 1.4 Ghz Processor
- 13-inch or larger display, with minimum 1024×768 resolution
- Wireless-g, -n, or -ac capability
- Note: Not supported: Chromebooks, Netbooks

#### Operating System:

- Windows 8, 10
- Mac OS X 10.9 or higher
- Note: Not supported: Linux, Virtual Machines

#### Browsers:

- Latest versions of Chrome and Firefox (recommended as default browsers)
- Windows: Internet Explorer 11 or higher
- Mac: Safari 11.0.3 or higher

- Note:
- Cookies must be enabled
- JavaScript must be enabled

Latest versions of:

- Acrobat Reader
- Flash Player
- Silverlight Player

Please see program-specific information in this catalog for additional program requirements.

#### **Readmission Policy**

Students dismissed from a VUMC program may be considered for readmission at VUMC on a case-by- case basis. Students must apply for admission consideration, and the entire application and selection process must be carried out. Students applying for readmission may be asked to interview with the Director of the Center for Programs in Allied Health. A student may be readmitted to VUMC no more than one time.

Reapplying students may be required to repeat coursework taken during a previous period of study at VUMC. The eligibility of coursework previously completed at VUMC to be applied toward graduation requirements following readmission will be determined on an individual basis, and the decision will be based on the following:

- Length of absence
- Reason for withdrawal (personal, illness, academic, etc.)
- Performance in program-recommended/required remediation, if any, during original period of enrollment
- Whether or not the student was in good academic standing when the withdrawal took place

Didactic courses previously completed at VUMC will be considered for credit toward certificate graduation requirements per the VUMC Transfer of Clock Hours or Credit to VUMC Policy. Students may be tested to determine continued mastery of knowledge previously covered in courses. No credit for prior clinical courses, internships, labs or practical is given. Those requirements must be taken regardless of the circumstances of the student withdrawal.

# **Employment Requirements in Allied Health Fields**

In Allied Health fields, states and employers may require licensure, certification, registration, etc., before an individual may be employed in a given field. Licensure eligibility and other requirements vary from state to state. Students are advised to check licensure and certification guideline specific to their program of study for the states in which they plan to seek employment.

### Transfer of Clock Hours or Credit to VUMC

VUMC evaluates for transfer credit all clock hours and/or credit earned at institutions accredited by organizations recognized by the U.S. Department of Education or the Council for Higher Education Accreditation (CHEA). Credits earned at other educational institutions are reviewed by VUMC and may or may not be accepted by VUMC as credit toward VUMC programs' graduation requirements. It is the responsibility of prospective students to clearly understand which credits earned at other institutions will and will not be accepted by VUMC before executing an enrollment agreement with VUMC.

Clock hour or credit transfer requests must be made by the student in writing during the admissions process. Official evaluation of a collegiate transcript is conducted upon receipt of an official transcript directly from the institution at which the courses under consideration were earned. It is the responsibility of the student to ensure that VUMC receives all official transcripts. An official transcript must be provided from each institution from which credit and/or clock hours are to be transferred. Transcripts provided become the property of VUMC.

Up to 25% of program clock hours and/or credit may be accepted for transfer, depending on the determination of equivalency. Only hours or credits for which a grade of C or better was awarded and that were earned within the

past five years are eligible for transfer consideration. VUMC may ask the student to provide additional documentation to establish coursework completed, and VUMC may require testing and/or demonstration of skills in order to verify student competency related to requested transfer credit/clock hours.

# Advanced Placement and Experiential Learning

VUMC does not accept hours toward advanced placement through challenge examinations, achievement tests, or experiential learning.

# Transfer of Credits or Clock Hours to Other Institutions

Transferability of credits varies considerably from institution to institution. Vanderbilt University Medical Center makes no representation whatsoever regarding transfer or acceptance of VUMC credits by any other institution. Vanderbilt University Medical Center does not guarantee the transferability of its credits to any other institution unless there is a written agreement with another institution explicitly denoting transferability.

# Transferability of Credit Disclosure

You should also contact any educational institutions that you may want to transfer credits earned at VUMC to determine if such institutions will accept credits earned at VUMC prior to executing an enrollment contract or agreement. It is highly recommended, and you are advised, to consult with all educational institutions in which you consider transferring credit earned at VUMC before you execute an enrollment contract or agreement.

# TRANSFERABILITY OF CREDITS DISCLOSURE

Credits earned at Vanderbilt University Medical Center (VUMC) may not transfer to another educational institution. Credits earned at another educational institution may not be accepted by VUMC. You should obtain confirmation that VUMC will accept any credits you have earned at another educational institution before you execute an enrollment contract or agreement. You should also contact any educational institutions that you may want to transfer credits earned at VUMC to determine if such institutions will accept credits earned at VUMC prior to executing an enrollment contract or agreement. The ability to transfer credits from VUMC to another educational institution may be very limited. Your credits may not transfer and you may have to repeat courses previously taken at VUMC if you enroll in another educational institution. You should never assume that credits will transfer to or from any educational institution. It is highly recommended and you are advised to make certain that you know the transfer of credit policy of VUMC and of any other educational institutions you may in the future want to transfer the credits earned at VUMC before you execute an enrollment contract or agreement.

Signature of Student	Date

# **GRADUATION REQUIREMENTS**

Certificates for each VUMC program are awarded based on the successful completion of all graduation requirements for each program. Details regarding each program's graduation requirements are provided in the program-specific section of this catalog. All programs require students to maintain Satisfactory Academic Progress, the standards for which are outlined in this Catalog.

All students are required by VUMC to complete an exit interview prior to graduation. Also, in order to graduate, students must have no outstanding financial balance with VUMC Center for Programs in Allied Health (this does not include educational loans to third-party lenders).

# Satisfactory Academic Progress (Qualitative and Quantitative Elements)

All VUMC Students are required to maintain Satisfactory Academic Progress (SAP). SAP is a measure that consists of both qualitative (e.g., grades) and quantitative (e.g., number of hours completed in the clinical setting) measurements. Both measurements are evaluated on a regular basis for each program. Details about the timing and frequency of SAP review for each program are contained in the program- specific sections of this catalog. Each program's SAP requirements are also stated within each program section of this catalog. To maintain Satisfactory Academic Progress, a student must meet at all times the minimum standards established by each program for both qualitative and quantitative measures.

This VUMC Satisfactory Academic Progress policy applies to all VUMC students. These standards are consistently applied by each program to its students, regardless of financial aid status. To graduate, a student must successfully complete all courses in the program with the designated minimum score for passing (which varies from program to program).

# **CPiAH SAP Policy for Both Credit Hour and Clock Hour Programs**

# **Qualitative Elements of SAP for Credit Hour Programs**

All Programs except Dietetic Internship & Pharmacy Technician Training Program.

### **General Information for Credit Hour Programs**

Qualitative measurement consists of a student's grades, whether expressed numerically or with letter grades (see Grading Scale chart below). Credit hour programs may calculate these grades into a cumulative Grade Point Average (GPA). Some courses may be graded according to the pass/fail system. Some programs use competency-based assessment as a qualitative measure in addition to a grading scale. In these cases, student performance of competency-related tasks is assessed in order to determine whether or not a student has obtained competency (pass) or not (fail). All credit hour programs adhere to the following grading scale.

**Qualitative Elements of SAP -- Grading Scale for Credit Hour Programs** 

Scale	Grade	GPA
95-100%	A	4.0
90-94%	A-	3.5
85-89%	В	3.0
80-84%	B-	2.5
75-79%	С	2.0
<75%	F - FAILURE	0

Р	Pass - Any course with a "P" grade is not calculated into the grade point average.			
F	Fail - Any course with an "F" grade is not calculated into the grade point average. However, the course must be repeated and passed to graduate.			
I	Incomplete - May be used at the discretion of the instructor in those cases in which the student is not able to complete work in the normal time. In those instances, the student and instructor develop a written plan for an extension to provide work by a specific date that falls within the period of time specified by the relevant program's requirements (but in no circumstances greater than one month). An "I" that is not replaced by a letter grade within the period of time specified by the relevant program's requirements, due to unsatisfactory completion of the student's plan, will be changed to an F after the period specified by the program (a period not to exceed one month). Any course with an "I" grade is not calculated into the grade point average. Once a grade is assigned to the course (when conditions are met that allow for the removal of the "I" and assignment of a final grade), that grade will factor into the student's GPA.			
W±	Withdrawal – Utilized when a student leaves the course due to an approved leave-of-absence or withdraws from the school prior to the scheduled completion of a course. Any course with a "W" grade is not calculated into the grade point average.			
R	Repeat - Some programs allow students to repeat courses. In those programs, for any course that is repeated, a Repeat will be provided as the grade for the first attempt at the course. Any course with an "R" grade is not calculated into the grade point average. However, courses will be considered hours / credit hours attempted for the purpose of determining maximum time frame. Please refer to each program's student handbook for information about whether students are allowed to repeat courses in any given program.			

<sup>±</sup> Non-punitive grades for courses awarded by the school include "W". Non-punitive grades are not included in the computation of a student's overall Cumulative Grade or Point Average. The clock hours or credit hours associated with any courses for which non-punitive grades are assigned are included as credits attempted when calculating the student's Maximum Time Frame and credit completion percentage.

#### Minimum Average Required for Satisfactory Academic Progress for Credit Hour Programs

All students enrolled in Credit Hour Programs must maintain a minimum qualitative average (expressed as percentage points, grades, GPA and/or competencies passed) of 75% or a cumulative GPA of 2.0 to maintain Satisfactory Academic Progress\*. Students must achieve the minimum qualitative average at each review of SAP to maintain Satisfactory Academic Progress. Students not maintaining SAP will face remedial action, up to and including dismissal from the program.

The table below presents the minimum qualitative average required for each program. More detailed information is available in the program-specific section of this catalog for each program.

Program Name	Term 1	Term 2	Term 3	Term 4
Medical Laboratory	75% average	75% average		
Science	75% average	75% average		
Diagnostic Medical	75% average	75% average	7E% average	75% average
Sonography	75% average	75% average	75% average	75% average
Nuclear Medicine	75% average	75% average		
Technology	75% average			
Perfusion	75% average	75% average	75% average	75% average

<sup>\*</sup>Clock hour programs may have different measurements of SAP and are detailed in the Clock Hour SAP Section below

# **Quantitative Elements of SAP for Credit Hour Programs**

Students enrolled in credit hour programs must successfully earn annually a cumulative minimum of 2/3 or 66.67% of all hours attempted. Successfully completed hours are earning a letter grade of a C or higher. Some courses may have a specific passing grade requirement. In such cases, the student must earn the specified grade to be considered to have successfully completed the hours. Students cannot receive federal aid after attempting 150% of the hours required for the completion of their academic program. This is referred to as the maximum

allowable time frame. Example: A degree takes 120 hours to complete, so a student may attempt up to 180 credits  $(120 \times 150\% = 180)$  before being ineligible for federal aid.

A student who loses federal aid eligibility because of not meeting SAP will regain eligibility when it is determined that the standards have been met or when an appeal has been approved. It is the student's responsibility to notify the Financial Aid Office of any adjustments in their transcript, and if the student meets the standards, then financial aid will be reinstated.

# **Dietetic Internship SAP Policy**

#### Grading Scale for Dietetic Internship –

Scale		Grade	GPA
90-10	0%	A	4.0
80-899	%	В	3.0
70-799	%	С	2.0
0-69%	,	F	1.0
		Р	Pass - Any course with a "P" grade is not calculated into the grade point average.
		F	Fail - Any course with an "F" grade is not calculated into the grade point average. However, the course must be repeated and passed to graduate.
I	complete work in the normal time. In those is extension to provide work by a specific date program's requirements (but in no circumstagrade within the period of time specified by completion of the student's plan, will be chato exceed one month). Any course with an "is assigned to the course (when conditions and grade), that grade will factor into the studen	nstances, the stances greater the relevant pringed to an Fafil' grade is not re met that allot's GPA.	r in those cases in which the student is not able to student and instructor develop a written plan for an in the period of time specified by the relevant than one month). An "I" that is not replaced by a letter rogram's requirements, due to unsatisfactory fer the period specified by the program (a period not calculated into the grade point average. Once a grade ow for the removal of the "I" and assignment of a final
W±	Withdrawal – Utilized when a student leaves the course due to an approved leave-of-absence or withdraws from the school prior to the scheduled completion of a course. Any course with a "W" grade is not calculated into the grade point average.		
R	Repeat - Some programs allow students to repeat courses. In those programs, for any course that is repeated, a Repeat will be provided as the grade for the first attempt at the course. Any course with an "R" grade is not calculated into the grade point average. However, courses will be considered hours / credit hours attempted for the purpose of determining maximum time frame. Please refer to each program's student handbook for information about whether students are allowed to repeat courses in any given program.		

# Minimum Average Required for Satisfactory Academic Progress for Dietetic Internship

Program Name	Term 1	Term 2	Term 3	Term 4
II) letetic internshin	_ ``	75% average (rotations & assignments)		

# Quantitative Elements of SAP for Dietetic Internship

For all programs, the quantitative measurement of SAP consists of a student's satisfactory completion of program hours, based on a rate-of-progress calculation. The rate of progress calculation is the percentage of total hours completed of those hours the student has attempted. This measurement ensures that all students progress at a rate sufficient to allow them to complete their programs within the maximum time allowed. Each program establishes a number of hours to be attempted and a number required to be completed in order for the student to maintain Satisfactory Academic Progress. More information is available in each program's section in this catalog, but an outline of program requirements is presented in the following table.

Program Name	Term 1	Term 2	Term 3	Term 4
1) letetic Internshin	600 of 1200 hours completed	600 of 1200 hours completed		

### **Pharmacy Technician SAP Policy**

**Grading Scale for Pharmacy Technician Program:** 

Scale	Grade	GPA		
95-100%	A	4.0		
90-94%	A-	3.5		
85-89%	В	3.0		
80-84%	B-	2.5		
75-79%	C	2.0		
<75%	F - FAILURE	0		
Р	Pass - Any course with a "P" grade is not calculated in	Pass - Any course with a "P" grade is not calculated into the grade point average.		
F	Fail - Any course with an "F" grade is not calculated into the grade point average. However, the course must be repeated and passed to graduate.			
1	Incomplete - May be used at the discretion of the instructor in those cases in which the student is not able to complete work in the normal time. In those instances, the student and instructor develop a written plan for an extension to provide work by a specific date that falls within the period of time specified by the relevant program's requirements (but in no circumstances greater than one month). An "I" that is not replaced by a letter grade within the period of time specified by the relevant program's requirements, due to unsatisfactory completion of the student's plan, will be changed to an F after the period specified by the program (a period not to exceed one month). Any course with an "I" grade is not calculated into the grade point average. Once a grade is assigned to the course (when conditions are met that allow for the removal of the "I" and assignment of a final grade), that grade will factor into the student's GPA.			
W±	Withdrawal – Utilized when a student leaves the course due to an approved leave-of-absence or withdraws from the school prior to the scheduled completion of a course. Any course with a "W" grade is not calculated into the grade point average.			
R	Repeat will be provided as the grade for the first atte calculated into the grade point average. However, co	urses. In those programs, for any course that is repeated, a empt at the course. Any course with an "R" grade is not purses will be considered hours / credit hours attempted for the e refer to each program's student handbook for information es in any given program.		

Minimum Average Required for Satisfactory Academic Progress for Pharmacy Technician Training

Program Name	Term 1	Term 2	Term 3	Term 4
Pharmacy Technician	80% average (rotations &	80% average (rotations &		
Training	assignments)	assignments)		

# Quantitative Elements of SAP for Pharmacy Technician Training Program

For all programs, the quantitative measurement of SAP consists of a student's satisfactory completion of program hours, based on a rate-of-progress calculation. The rate of progress calculation is the percentage of total hours completed of those hours the student has attempted. This measurement ensures that all students progress at a rate sufficient to allow them to complete their programs within the maximum time allowed. Each program establishes a number of hours to be attempted and a number required to be completed in order for the student to maintain Satisfactory Academic Progress. More information is available in each program's section in this catalog, but an outline of program requirements is presented in the following table.

Program Name	Term 1 (10 weeks)	Term 2 (10 weeks)	Term 3	Term 4
Pharmacy Technician Training Program	312 of 624 hours	312 of 624 hours		

# **Credit Hour Definitions for All Credit Hour Programs**

*CPiAH* adheres to the following definitions and uses the formula in calculating credit hours awarded on a course-by-course basis:

Semester Credit Hours (Perfusion, Nuclear Medicine Technology, and Medical Laboratory Science) Semester - minimum of 15 weeks in length. One semester credit is equal to:

- a. one hour of lecture per week for a semester or the equivalent number of hours.
- b. two hours of lab per week for a semester or the equivalent number of hours.
- c. three hours of externship/clinical per week for a semester or the equivalent number of hours.

### Quarter Credit Hours (Diagnostic Medical Sonography)

Quarter - minimum of 10 weeks in length. One quarter credit is equal to:

- a. one hour of lecture per week for a quarter or the equivalent number of hours.
- b. two hours of lab per week for a quarter or the equivalent number of hours.
- c. three hours of externship/clinical per week for a quarter or the equivalent number of hours.

# An example of the calculation is as follows:

# **Quarter System**

6 hours lecture = 0.60 25 hours lab = 1.25 70 hours externship = 2.30

Total = 4.15

# **Semester System**

6 hours lecture = 0.40 25 hours lab = 0.83 70 hours externship = 1.55 Total = 2.78

Rounding occurs following the calculation of the lecture, laboratory, and externship components resulting in a total of 4.0 quarter or 2.5 semester credits when rounded down to the next lowest half or whole number.

Partial credits for a course are rounded to the next lowest half or whole number. A course may be comprised of any combination of lecture, laboratory, an/or externship. Care is taken in scheduling breaks.

If a program offers both a distance education and a traditional campus-based component, the quality of the education and credit awarded is equivalent in all three aspects of the curriculum: didactic, laboratory, and clinical.

CPiAH is aware that federal requirements regarding the calculation of clock and credit hours, including minimum number of weeks per academic year required for Title IV purposes, may vary from ABHES requirements.

#### Non-Credit / Remedial Courses / Proficiency Credit –

VUMC does not offer non-credit or remedial courses, or grant proficiency credit.

#### Student Grievance Concerning Grades

Students should seek redress of a problem with a grade as soon as possible after receiving the grade and in no case later than one (1) week after the grade is released. Students should confer directly with the course director about grade concerns. Every effort should be made to resolve the problem fairly and promptly at this level. If the student cannot resolve the problem through discussion with the course director, the student should formally request an appeal from the Program Director within one (1) week of talking with the course director. If the Program Director is the course director in question, the appeal should be made to the Director of the Center for Programs in Allied Health. The decision of any appeal is final.

# Transfer and Readmitted Students/Students Changing Majors

If a student transfers to VUMC from another postsecondary institution, the transfer credits that were accepted by VUMC will count as credits attempted and credits completed for purposes of calculating the student's quantitative progress. The corresponding grades will not count toward the student's qualitative progress.

If a student is re-admitted into VUMC, changes program of study, or seeks to earn an additional credential, the credits that are applicable to the student's current program of study will be included in determining the student's satisfactory academic progress standing and the appropriate evaluation level for the student in terms of establishing the total number of credits attempted and completed at each of the student's evaluation periods. Students receiving federal financial aid may repeat a course in accordance with the VUMC academic policy. Credits from both course attempts will be counted in total credits attempted and in minimum cumulative credits completed at VUMC, but only the highest grade earned will be included in the calculation of minimum cumulative GPA. Credits from both course attempts will also count towards the Maximum Time Frame for Completion. Students may receive financial aid for each repeated course provided that a student may not repeat a passed course more than once.

# **Progress Evaluations and Reports**

Each student's progress in completing the program is reviewed during a progress evaluation monthly. During these reviews the student's Cumulative Grade (or Point) Average and rate of progress in completing program hours are discussed with the student, and the student receives academic, attendance and/or financial aid advising from the school, as the school deems necessary. Students will receive an electronic progress report containing a summary of the student's grades and successfully completed hours.

Students are notified in writing should they fail to meet the minimum standards of Satisfactory Academic Progress during an evaluation period/term. Students who fail to maintain SAP in an evaluation period are placed on SAP Warning, unless there are two or fewer terms left in the program following the term for which the evaluation is provided, in which case the student will be placed on Academic Probation. More information on Academic Probation is contained in the Academic Probation section of this catalog.

#### SAP Warning

Each program establishes a timeframe for its SAP warning period, but in no case does a SAP warning period last more than one term. Student loan funds may be disbursed during SAP warning periods. When placed on SAP warning, students are provided notification in writing that outlines the reasons why the student has been placed on SAP warning and the requirements the student must meet in order to be removed from SAP warning (an "Academic Plan"). The Academic Plan is designed to bring the student into compliance with Satisfactory Academic Progress standards within a single term. The student's Academic Plan and progress toward its completion will be reviewed with the student during the period of SAP Warning according to the details of the Plan.

At the end of the warning period, if the minimum standards of Satisfactory Academic Progress are not met, a student will be placed on Academic Probation. Students who satisfy the conditions of SAP at the end of the Warning period will be returned to Satisfactory Academic Progress status. School personnel, including the appropriate instructor, the Program Director, the Assistant Program Director, and/or the Director of the Center for Programs in Allied Health are available to discuss any concerns students may have.

#### **Academic Probation**

Students failing to maintain Satisfactory Academic Progress as defined by their program may, at the discretion of the program, be placed on academic probation. When placed on academic probation, students are provided written notification that outlines the reasons why the student has been placed on probation and the requirements the student must meet in order to be removed from probation (an "Academic Plan"). The Academic

Plan is designed to bring the student into compliance with Satisfactory Academic Progress standards within a designated period of time as defined by the Program Director. The student's Academic Plan and progress toward completion will be reviewed with the student during the period of Probation according to the details of the Plan.

Students are not allowed to have more than one period of probation while enrolled in their program. Students on probation who do not successfully complete the terms of their Academic Plan will be provided the opportunity to withdraw. If the student refuses to withdraw, he or she will be dismissed from the program. Students on probation who successfully complete the terms of their Academic Plan will return to Satisfactory Academic Progress standing, and academic probation status will be removed.

#### **Academic Probation Appeal**

Students who have been placed on academic probation may appeal the probation decision. To do so, the student must submit an appeal request to the Director of the Center for Programs in Allied Health in writing (email is acceptable) within five (5) working days of being placed on probation.

The appeal request must include:

- Information about the circumstances or events that prevented the student from maintaining Satisfactory Academic Progress, and
- What changed in the student's situation to allow the student to be successful in the future.

The student may submit documentation along with the appeal request. The Director of the Center for Programs in Allied Health will review and discuss with involved faculty and staff. The student will be notified of the outcome of the appeal in writing within five (5) business days of the appeal submission. The decision of the Director of the Center for Programs in Allied Health is final.

If the appeal is not successful, probation status will continue until 1) the student meets the requirements of the Academic Plan and returns to Satisfactory Academic Progress status, or 2) the student fails to meet the requirements of the Academic Plan and subsequently withdraws or is dismissed from the program. If the appeal is successful, the student will not be placed on probation, but the program may impose requirements the student must complete in order to return to Satisfactory Academic Progress.

#### Student Dismissal Policy

Students who have been placed on probation and do not return to Satisfactory Academic Progress status within the time required by their Academic Plan will be given the opportunity to withdraw or be dismissed from the program. Students may also be dismissed from the program after a period of temporary suspension. Students dismissal requires immediate return of student ID, books, equipment or other materials issued by VUMC.

VUMC programs pursue dismissal only after a student has been given a reasonable period of warning and/or probation to address deficiencies. Dismissal may also be recommended at any time for a student who demonstrates either a singular egregious behavior or is involved in one or more serious incidents inconsistent with the expectations for students of VUMC, or in violation of VUMC policy.

A decision to pursue dismissal requires participation of the program director and relevant program faculty and administrators. The Program Director will meet with the student to hear the student's explanation, including any mitigating circumstances in the situation. The Program Director will then meet with relevant program faculty and administrators to consider factors in the situation and render a determination. The dismissal decision is described in a notice to the student written by the Program Director. This communication is presented to the student, in person whenever possible, by the Program Director, although an in-person meeting may not be possible in all cases.

### Student Dismissal Appeal

A student who is dismissed from a VUMC program has the right to appeal. Each appeal is decided on an individual basis. The process for appealing a dismissal decision is as follows:

- The student must submit a written appeal to the Director of the Center for Programs in Allied Health. The appeal must be submitted at least one month prior to the start of the term in which the student wishes to be granted entrance into the program.
- Appeals must include a detailed explanation of the circumstances related to the dismissal. As relevant, such
  appeals should include official/professional documentation (i.e., medical records, court documents, or any
  other documentation which would support an appeal).
- The appeal will be reviewed by the Director of the Center for Programs in Allied Health, and approved or denied based on the student's individual circumstances, past academic record, and potential to successfully complete the program.
- The Program Director will provide a written decision to the student within fourteen (14) business days. The decision on the dismissal appeal is final.
- If the student is allowed to re-enroll, the Program Director may place conditions that the student must meet in order to be reinstated. The Program Director may also reinstate the student on a probationary basis. Reinstatement is based on class and space availability.
- If students who are reinstated are required to repeat coursework, that coursework must be satisfactorily completed in order to continue in the program.
- Reinstated students must maintain VUMC student financial accounts in good standing and may not default on any loan.

VUMC reserves the right to terminate a student's enrollment if, during the student's program of study, VUMC determines that the student has failed to maintain the minimum standards of satisfactory academic progress, or has reached the maximum timeframe (150% of the program credits/hours) without successfully completing the program; failed to comply with the VUMC rules and regulations as published in VUMC's Catalog; or has failed to meet their financial obligations. Any refund due to the student or other agencies will be calculated and refunded according to the Tuition Refund Policy. A student who has been dismissed for failure to maintain SAP may reapply for admission; however, until SAP status is re-established, the student will not be eligible for any form of federal financial aid. A student making application for re-admission must first satisfy all current requirements for admission. In addition, if a student's enrollment was terminated for failure to maintain SAP, the applicant's academic records will be evaluated to determine if it is possible for a satisfactory cumulative grade point average to be achieved and if the program can be completed within the maximum time frame.

# Temporary Student Suspension

VUMC reserves the right to temporarily suspend a student for conduct disrupting or otherwise negatively affecting the learning environment, pending consideration of the student's situation by the Program Director and other relevant program faculty and administrators. The Program Director will notify the student in writing of the conditions of the temporary suspension. If the student is reinstated, the student will work with the Program Director to address any course work missed during the suspension.

#### Maximum Time to Complete Program

All students are expected to complete their program of study within an acceptable period of time, as defined by each program, but in no case to exceed 150% of normal program length. Students failing to complete their program of study within the maximum time will be dismissed from the program. These students are not eligible for reinstatement.

Time spent in any of the following situations/activities counts toward the maximum time to complete VUMC programs:

- Courses for which a grade of incomplete or failure was recorded
- Courses from which the student withdrew
- Repeated coursework (e.g., following prior failure of the course)
- Time in a VUMC-approved leave-of-absence.

# STUDENT POLICIES

#### **Attendance**

Attendance is an essential component of success in VUMC programs. Students enrolled at the institution make a commitment to participate fully in their education by attending classes, clinical rotations, and other educational activities as required by their program of study, and accounting for any absences according to program policy. Each program establishes its detailed tardiness, absence and make-up time policies and procedures. Please refer to the program-specific Program Handbook for more information.

Clock hour programs are required to complete <u>all</u> specified clock hours to successfully complete their program of study. Refer to the specific program sections for number of clock hours required for completion. It is the student's responsibility to address any issues related to his/her attendance. The Program Director and the instructor/preceptor will meet to determine the number of hours required to be made up by the student to meet graduation requirements.

All programs have processes to allow for absence in cases of emergency, of illness, of the death of a close relative, or when observing a religious holiday. See program-specific information in this catalog for further details. Each program has policies regarding unexcused consecutive absences and consequences for such, up to and including dismissal from the program.

# Leaves of Absence

VUMC offers students the option to take a leave of absence from study at VUMC for medical, family or other reasons. Students must request the leave of absence in advance, except in emergency cases. The student must submit a written request to Program Director, indicating the beginning and ending dates of the leave. Additional documentation to support the request may be required (e.g., medical records, legal records). Each student's request is evaluated on an individual, case-by-case basis.

A student may be granted a leave of absence not to exceed a total of 180 calendar days in a 12-month period. Students may take no more than one leave of absence while enrolled in a VUMC program. Time spent in a VUMC-approved leave-of-absence counts toward the maximum allowable time to complete any VUMC program. Exceptions cannot be made to each program's maximum time for completion (150% of normal program length) for student leave-of-absence or for any other reason.

Academic plans are developed to accommodate students' needs upon returning from leave of absence. At the discretion of the Program Director, students returning from a leave of absence may be required to complete coursework in a different academic year than the one in which they matriculated. Students may be required to present medical documentation in order to return from medical leave-of-absence.

If a student does not return on the documented return date, they may be dismissed from the program. Students who are eligible to register in the term following the leave but do not do so may be unenrolled and may be required to re-apply to the program. Programs may require students to complete some or all coursework, clinical rotations and other educational activities.

Time spent in leave-of-absence counts toward the maximum time allowed to complete VUMC programs. It is the student's responsibility to be aware of these limits for the program in which the student is enrolled.

#### Copyright Infringement Policy

VUMC expects all VUMC faculty and staff members, as well as all students, to comply with Federal law for the use of copyrighted material when using on VUMC's computers, networks and copiers. Unauthorized use of copyrighted material is illegal, regardless of whether that use is by a faculty or staff member or a student. All faculty, staff, and students are expected to be aware of and follow laws around use of copyrighted materials. Any

member of the campus community practicing unauthorized use or distribution of copyrighted material is subject to sanctions by VUMC Center for Programs in Allied Health, up to dismissal or termination. Violators are also subject to Federal criminal penalties for copyright law violations.

The following web link provides further information on copyright law.

https://www.copyright.gov/help/faq/index.html

## Surveys of Enrolled Students and Graduates

Vanderbilt University Medical Center conducts surveys of enrolled students, graduates, and others in order to continuously learn about its effectiveness and to guide improvements on both the institutional and program levels. Feedback from current students and graduates is critical to understanding the performance of the institution and the programs. Students and graduates are encouraged to participate in these surveys, given the importance of this feedback.

Surveys of students and graduates include at least:

- Course evaluations (administered by programs following conclusion of courses)
- Student satisfaction survey (administered by VUMC at least once a year)
- Graduate satisfaction survey (administered by VUMC at least once a year)
- Program-specific surveys of students (details are available in each program's Program Handbook)

## **Employment While Enrolled at VUMC**

Many students work while enrolled at VUMC. Each program may establish its own policies regarding types of employment that pose a conflict with the student role, scheduling requirements, and other issues related to student work. In addition, each program may establish its own procedures related to student compliance with program policies (e.g., disclosure requirements). For additional information on working while enrolled at VUMC, prospective and current students should refer to the Program Handbook for the appropriate program(s).

#### Student Records

Student records are maintained for a minimum of five years from the end of the VUMC fiscal year July 1 - June 30) during which a student was last enrolled, with transcripts being maintained permanently.

Central student files are retained in the administrative office of the Center for Programs in Allied Health, secured under lock. Program Directors also maintain some student records, also secured under lock. The student has the right to inspect academic and financial records, by appointment with the administrative office of the Center for Programs in Allied Health. Student files may not be removed.

#### Transcripts/Verification Statements

Permanent transcripts are maintained by the Center for Programs in Allied Health. The Dietetic Internship provides a verification statement that serves as the equivalent of the transcript for all ACEND-accredited internship programs, including the VUMC Dietetic Internship. Students are provided with one official transcript (or verification statement, in the case of the Dietetic Internship) at graduation. Additional copies may be requested by completing a transcript request form found on the VUMC-CPiAH website at <a href="https://www.vumc.org/allied-health/transcript-request">https://www.vumc.org/allied-health/transcript-request</a>

Students who completed a VU Allied Health program prior to 2016-2017 may submit a <a href="mailto:Transcript Request">Transcript Request</a>
Form found on the VUSM website at <a href="https://medschool.vanderbilt.edu/explore-vusm/enrollment-services/">https://medschool.vanderbilt.edu/explore-vusm/enrollment-services/</a> by mail, fax, or email to: Vanderbilt University Office of Enrollment Services, 224 Eskind Biomedical Library, Fax: 615-343-2313, <a href="mailto:medverify@vanderbilt.edu">medverify@vanderbilt.edu</a>

## **Official Program Communications**

Vanderbilt University Medical Center delivers required communications with students via each student's official VUMC email account. Official electronic notifications including those required by VUMC policy, will be sent to

students' VUMC email addresses. Students are required to be familiar with the contents of official VUMC notifications, and to respond to instructions and other official correspondence requiring a response. VUMC makes every effort to avoid inundating students with nonessential email (often called "spam") and maintains separate lists from which students may unsubscribe for announcements of general interest.

## Change of Contact Information

Students are responsible for notifying the office of the Center for Programs in Allied Health immediately of any change of mailing address, email address, telephone number or emergency contact.

## **Course Syllabus Policy**

Each didactic and clinical course director is required to provide a written syllabus to each student at the outset of the course or clinical experience. In this syllabus the student will find all pertinent information for course objectives and requirements, as well as grading information. The instructor will provide a review and explanation of the syllabus contents at the outset of the course or rotation. The student is responsible for understanding and following the guidelines in the syllabus. If a student feels that the instructor has violated content provided in the syllabus, he or she may file a complaint under the Grievance Policy outlined in this catalog.

## **Dress Code and Personal Appearance**

Students are required to dress in an appropriate professional manner, in keeping with VUMC institutional dress code. Uniforms or scrubs may be required for some programs. Please refer to information from programs regarding specific dress requirements based on particular settings of learning.

- Identification badges are worn in clear sight above the waist with name, title, and picture clearly visible.
- Clothing is well-fitting, clean, and free of holes, tears or other signs of wear
- Clothing is not tight, sheer, or revealing (leggings allowed if worn with attire that is mid-thigh in length)
- Tops are not backless, midriff, strapless, off the-shoulder, or spaghetti strap
- Clothing does not restrict proper handwashing technique (e.g., thumb shirts/sweaters)
- Closed toe shoes, clean and in good condition
- Hats, caps, bandanas, hair bags/shower caps are not worn when in buildings unless for medical condition, safety purposes, or established religious customs
- No heavy perfume, cologne, scents
- No visible body piercing/jewelry except for ears/nose with simple (i.e., stud or tiny) earrings
- No visible tattoos on face; no other visible tattoos that are obscene, commonly associated with gangs, extremists, and/or supremacist organizations, or that advocate sexual, racial, ethnic, or religious discrimination
- Jeans of any kind are not permitted, denim or colored
- No sports attire (e.g., athletic sportswear, including hoodies), unless part of unit approved VUMC uniform
- Hair is clean and contained in such a manner that it does not come in contact with the patient or visitors.
- Fingernails are kept clean and no longer than 1/16 inch from fingertip. Fingernails of the appropriate length are barely visible when viewed from the palm surface of the hand. Artificial nails are prohibited for individuals with direct patient care responsibilities. Artificial fingernails include, but are not limited to, acrylic nails, all overlays, tips, bondings, extensions, tapes, inlays, and wraps. Nail jewelry is not permitted. Nail polish, if worn, is well maintained. Chipped nail polish is not allowed.
- Reasonable accommodations can be made for medical and or religious/spiritual/deeply held personal beliefs unless such accommodations pose a risk to the safety or health of the individual or others

#### **News/Media Inquiries**

Contact with the news media regarding Vanderbilt University Medical Center must be cleared through the VUMC Office of Public Affairs. If you should receive a request from newspaper, television, social media or radio reporters, contact the Office of the Center for Programs in Allied Health, who will clear this through the Office of Public Affairs. This assures a more accurate flow of information. No contact with the news media related to VUMC

or affiliated facilities should take place without the express written consent of the Director of the Center for Programs in Allied Health.

#### **Personal Possessions**

Vanderbilt University Medical Center and affiliated institutions are not responsible for loss of, or for damage to, any personal possessions brought to the Medical Center, University campus or affiliated facility. It is advisable to bring only the amount of money you will need for the day you are on duty. Keep money with you or in a secure (preferably locked) location. Valuable coats, watches, jewelry or other valuable items should be left at home for safekeeping. Check with designated affiliate staff members regarding personal belongings storage space at external affiliation locations.

## Smoking/Tobacco Policy

As a premier research enterprise and health care provider, VUMC recognizes the effects and costs of smoking, tobacco, and nicotine use on our society. VUMC is committed to promoting a healthy environment for its staff and visitors without the hazards associated with these products. This policy establishes VUMC as a smoke free institution and includes but is not limited to cigarettes, tobacco, and devices such as e-cigarettes, pipes, vaporizers. The use of these items is prohibited in all property owned by VUMC including vehicles and property leased by VUMC, campus grounds, parking lots, garages, plazas, courtyards, except in locations that have been designated for smoking and related devices.

Smoking restriction is within two hundred (200) feet of all entrances to the Vanderbilt University Medical Center Facilities. A violation is a misdemeanor, carrying a \$50 fine and Vanderbilt University Police Department (VUPD) enforces the ordinance as appropriate. (See Ordinance No. BL 2012- 115.)

The sale of smoking/tobacco material is prohibited in all VUMC facilities.

## Alcohol/Drug Use and Under-the-Influence Policy

In compliance with the 1990 Federal Drug-Free Schools and Campuses regulations, Vanderbilt University Medical Center enforces the following policy

VUMC prohibits the unlawful possession, use or distribution of alcohol and illicit drugs by students and employees on its property or as part of any VUMC-sponsored activity. The prohibition extends to off-campus activities that are officially sponsored by VUMC, its departments or organizations. In addition, the prohibition extends to off-campus professional or organizational activities, including attendance at conferences, when participation is sponsored by VUMC, or when the participant is representing VUMC. Finally, the prohibition extends to "private" events off campus where VUMC may have an interest.

Students in VUMC programs may be asked to participate in a drug screen. The drug policy is intended to comply with all state laws governing drug and alcohol screening and is designed to protect the students' right to privacy. The following behaviors are unprofessional and will subject the student to severe disciplinary action, up to and including dismissal from the program.

- Possession or use of alcohol or illegal drugs while on campus or clinical affiliate premises.
- Being under the influence of alcohol or illegal drugs while on campus or clinical affiliate premises, specifically
  while performing duties in patient care areas, surgical operating rooms or attending program related
  functions.
- Conviction of a crime related to possession, use or distribution of illegal drugs while enrolled in the program.

Services for persons needing assistance around substance use, dependence or abuse are encouraged to reach out for assistance. VUMC Center for Programs in Allied Health offers its students access the VUMC an Employee

Assistance Program, known as Work/Life Connections-Employee Assistance Program (EAP), more information can be found under the student services section of this catalog.

The following is a summary of Tennessee and federal sanctions for the unlawful use of illicit drugs and alcohol. While the summary is a good faith effort to provide information, VUMC does not guarantee that it is an error-free or exhaustive accounting. Under federal law, a civil penalty of up to \$100,000 and imprisonment of up to one year may be imposed for simple possession of certain specified controlled substances. Possession of crack cocaine may lead to civil penalties of up to \$250,000 and imprisonment of up to twenty years. Also, possession of a controlled substance can result in the denial of federal benefits, such as student loans, grants, contracts and professional and commercial licenses, and the forfeiture of personal property and real estate used to transport, conceal or facilitate such possession. In addition, possession of a controlled substance can lead to ineligibility to receive or purchase a firearm.

Under federal law, it is unlawful to manufacture, distribute, dispense, deliver, sell or possess with intent to manufacture, distribute, dispense, deliver or sell controlled substances. The penalty imposed depends upon many factors that include the type and amount of controlled substance involved; the number or prior offenses, if any; whether death or serious bodily harm resulted from the use of such substance; and whether any other crimes were committed in connection with the use of the controlled substance. Even a first-time violation can result in life imprisonment; a fine of up to \$4,000,000 per individual; supervised release; or any combination of these penalties. These sanctions are doubled when the offense involves either: (1) distribution or possession at or near a school or university campus, or (2) distribution to persons under 21 years of age. Repeat offenders may face greater penalties.

Under Tennessee law, it is unlawful for any person under the age of 21 to buy, possess, transport (unless in the course of their employment) or consume alcoholic beverages, including wine or beer. It is unlawful for any adult to buy alcoholic beverages for or furnish them for any purpose to anyone under 21 years of age. These offenses are classified Class A Misdemeanors punishable by imprisonment for not more than eleven months and twentynine days or a fine of not more than \$2,500 or both. The offense of public intoxication is a Class A Misdemeanor punishable by imprisonment of not more than thirty days or a fine of not more than \$50 or both.

Under Tennessee law, the offense of possession or casual exchange of a controlled substance (such as marijuana) is punishable as a Class A Misdemeanor (eleven months, twenty-nine days and/or a fine of \$2,500). For the third and subsequent offense of possession of ½ oz. or less of marijuana, punishment is one to six years of imprisonment and a \$3,000 fine. If there is an exchange from a person over 21 years of age to a person under 21 and the older person is at least two years older than the younger and the older person knows that the younger person is under 21, then the offense is classified as a felony. Possession of more than ½ oz. of marijuana under circumstances where intent to resell may be implicit is punishable by one to six years of imprisonment and a \$5,000 fine for the first offense. Maximum Tennessee penalties for possession, manufacture or distribution of substantial quantities of a controlled substance range from fifteen to sixty years of imprisonment and up to a \$500,000 fine. The State of Tennessee may, under certain circumstances, impound a vehicle used to transport or conceal controlled substances.

#### Weapons Policy

Vanderbilt University Medical Center prohibits student possession of firearms or other dangerous weapons while on Vanderbilt University Medical Center Campus or at clinical affiliations. Any student found to be in violation of this policy will be subject to disciplinary action. If a student receives information or observes another individual, staff member or patient/family, possessing a firearm or dangerous weapon on one of the previously mentioned campuses he/she should report this immediately to a Clinical Instructor or another staff member in authority.

Firearms and other weapons are prohibited at Vanderbilt University Medical Center (VUMC), except by Law Enforcement Officers as defined by T.C.A. § 39- 17-1350(d). Primary exterior entry doors have signage posted with

"No Firearms Allowed" in accordance with the Tennessee Code Annotated § 39-17-1359, it is an offense to possess a firearm in a building or on property that is properly posted in accordance with this section.

Other prohibited weapons per T.C.A. § 39-17-1302, are as follows:

- An explosive or an explosive weapon;
- A device principally designed, made or adapted for delivering or shooting an explosive weapon;
- A machine gun;
- A short-barrel rifle or shotgun;
- A firearm silencer;
- Hoax device;
- Knuckles; or
- Any other implement for infliction of serious bodily injury or death that has no common lawful purpose.

## **Computer Use Policy**

Students are required to adhere to all VUMC policies relating to the use of computer systems, both while on campus and remotely. Students are required to adhere to the following Medical Center policies provided to all students during orientation.

#### Responsibilities

Security of Information

- 1. Individuals using VUMC's electronic resources are responsible for maintaining the security of information stored on each system.
- 2. Individuals conducting Vanderbilt business may not use a personal email address. All electronic business communications must be conducted through an approved VUMC email address.
- 3. Students may only use electronic resources for which access is approved. A student has the responsibility to notify his or her supervisor if he or she has access to resources that are not necessary to perform his or her job, for which the student's authorization has expired, is given by mistake, or is otherwise unauthorized or excessive.
- 4. Confidentiality of systems' accounts, passwords, personal identification numbers (PINS) and other types of authentication assigned to individual users must be maintained, protected, and not shared. Students may not use authentications that are not their own. Students may not use electronic systems or equipment while signed in under another student's account or password unless given express authorization under extraordinary circumstances by their supervisor/manager. Responsibility for activity which occurs under a user-assigned authentication ultimately rests with the user to whom the authentication is assigned.
- 5. Individuals need to be aware of computer malware, such as viruses, spyware, trojans, root kits, and other destructive programs. Individuals should contact their technical support person for minimum security recommendations to prevent damage to VUMC's data, equipment, and systems.
- 6. VUMC resources must not be used by anyone to gain or attempt to gain unauthorized access to private information.
- 7. Deliberate or inappropriate propagation of any destructive or information gathering tools or disregard for minimum security recommendations that impact confidentiality, availability, or integrity of VUMC systems and/or data, including but not limited to, viruses, keyboard loggers, packet sniffers, etc., is prohibited

#### Inappropriate Activity on Systems Outside VUMC

When using outside electronic communication systems that are accessible to others, including web logs (blogs), internet chat rooms or bulletin boards, or social networking sites, staff may not engage in the following activities, to the extent they are not considered protected concerted activity:

1. Simultaneously identify oneself as a VUMC student and send, solicit, or display materials that are offensive, including sexually oriented material, graphic depictions of violence, or material that offends or harasses on the basis of race, sex, religion, color, national or ethnic origin, age, disability, leave status, veteran status, military service, sexual orientation, gender identity, gender expression or genetic information.

- 2. Unprofessional communication that it intentionally false, recklessly disloyal that negatively impact VUMC's reputation or interfere with VUMC's core mission, or unprofessional/inappropriate communication that is harassing, discriminatory or can reasonably viewed as a threat of violence.
- 3. Acting on behalf of VUMC or acting in a way that would cause others to believe that you are acting as a representative of VUMC when not authorized to do so (e.g. contacting the media or responding to investigations or complaints or questions about VUMC business on internet discussion groups on behalf of VUMC etc.).
- 4. Sending, receiving, printing or otherwise disseminating proprietary data, trade secrets or other confidential non-public information of VUMC in violation of VUMC policy, proprietary agreements or other contractual terms. Using VUMC-owned data or work product for personal gain. Using VUMC trademarks (name, logos), or branding for commercial purposes without authorization from the Office of Trademark Licensing. For more information about the scope of VUMC's ownership of data and work product, see the Vanderbilt Policy on Technology and Literary and Artistic Works located on the Center for Technology Transfer and Commercialization's website.
- 5. Inappropriately sharing or posting confidential information related to VUMC business, including but not limited to, research material, proprietary processes, business plans and/or patient information. This includes sharing or positing photos of a patient or partial information even when names of patients or faces are not used.
- 6. Any activity in violation of local, state, or federal law as it relates to the student's enrollment at VUMC, including but not limited to maliciously false statements; destruction of VUMC data or equipment; or accessing or sharing information in violation of HIPAA or FERPA. This includes any activity that would cause VUMC to not be in compliance with state or federal law

## Social Media Policy

This policy is intended for internet activities that associate or identify VUMC personnel with VUMC, use VUMC email addresses, or discusses VUMC. In keeping with the Electronic Communications and Information Technology Resources policy (HR-025), VUMC email addresses should not be used in conjunction with unofficial or personal social media accounts and profiles. This policy is not intended to guide online communications when students do not associate or identify themselves with VUMC.

Online social media allows VUMC personnel to engage in professional and personal conversations. These guidelines apply to VUMC employees (including faculty, staff, students and house staff) who identify themselves with VUMC in social medical venues such as professional society blogs, LinkedIn, and/or Facebook, for deliberate professional engagement or casual conversation.

Because of the evolving nature of social media platforms, these guidelines do not attempt to name every current and emerging platform. Rather, they apply to those cited and any other online platform available and emerging, including social networking sites and sites with user-generated content. Examples include, but are not limited to the following: a. You Tube; b. Facebook; c. Instagram; d. TikTok; e. LinkedIn; f. Twitter; g. Blogs; and h. Social media content that is hosted internally and protected by VUMC ID/Password.

- 1. Follow the same VUMC Credo behavior, HIPAA\*, Conflict of Interest policy, Privacy and general civil behavior guidelines cited above including respecting copyrights and disclosures, and not revealing proprietary financial, intellectual property, patient care, or similar sensitive or private content. \*Note: Examples of specific HIPAA violations include: posting a photo or video recording of a patient; referring to a patient by name; posting a diagnostic image or chart; describing a patient encounter with enough detail that someone who knows the patient would be able to identify them; responding online to a post or patient about their health care.
- 2. If VUMC employees (faculty, staff, students and house staff) identify themselves as a member of VUMC in any online forum, they make it clear that they are not speaking for VUMC, and what they say represents their individual personal views and opinions and not necessarily the views and opinions of VUMC. This can be

accomplished by including the phrase "views my own" in the social account bio information. Personal social media handles and avatars/profile images should not include any of Vanderbilt University's registered marks, including logos or the words Vanderbilt, VUMC, Vandy, a V that clearly implies Vanderbilt or other iterations.

- 3. VUMC students are thoughtful about how they present themselves in online networks. By virtue of identifying oneself as a part of VUMC in such a network, students connect themselves to, and reflect upon, VUMC colleagues, managers, VUMC patients and donors, and the health care and biomedical research professions.
- 4. Remember that all content contributed on all platforms becomes immediately searchable and can be immediately shared. This content immediately leaves the contributing individual's control forever.
- 5. If someone or some group offers to pay a student for participating in an online forum in their VUMC role, and/or offers advertising for pay and/or for endorsement, this could constitute conflict of interest, and VUMC policies and guidelines apply. If a member of VUMC's workforce is compensated financially or in product as an "influencer," this should be discussed with their supervisor or department chair (in case of faculty) to avoid a conflict of interest.
- 6. If someone from the media or press contacts about posts made in online forums that relate to Vanderbilt University or VUMC in any way, students alert their manager/leadership and contact VUMC News & Communications before responding.
- 7. If a patient or family member posts complaints about service or other issues, contact Strategic Marketing's social media team via direct message: on Twitter @VUMCHealth or on Facebook/Instagram @VanderbiltHealth.
- 8. Job postings follow VUMC's Human Resources (HR) established processes. Social Media may be used to share postings with individuals' professional networks but may not be used in place of HR processes but may be used to share official job postings with personal networks.

#### **VUMC Emergency Preparedness**

Students are introduced to VUMC emergency response policies and plans at orientation, and they are required to be familiar with and follow policies at all times. The VUMC Emergency Preparedness Guide may be found in the Program Director's office and throughout the hospital. While assigned at the Medical Center, students are expected to respond appropriately to any emergency in a timely and appropriate manner. The Medical Center Safety Guidelines may be accessed at <a href="https://www.vumc.org/emergency/welcome">https://www.vumc.org/emergency/welcome</a>. Emergency preparedness policies and procedures are discussed during student orientation.

The following is a brief description of emergency codes that student may hear announced at the medical center: **STAT** - medical emergency defined by location.

**RED alert-** Fire condition

- If the fire is in the immediate area respond with R.A.C.E/P.A.S.S.
- If the fire is not in the immediate area close doors and hallways and keep patients and visitors within the area.

Code Black - bomb threat

Code Silver - active shooter

Code Pink – Missing infant (<1 years old) identified by location and description

Code Purple – Missing child (1-12 years old) identified by location and description.

**Code Walker** – Missing teen/adult identified by location and description.

**Yellow Alert** – Potential emergency condition; prepare to activate emergency response.

**Orange Alert** – Emergency condition present; activate emergency response.

Yellow and Orange Alerts may be announced for the following emergency conditions:

Mass Casualty

Phone system outage

- Steam outage
- Electricity outage
- Medical Air
- Tornado

- Vacuum system outage
- Water outage
- Beeper system outage

Once the emergency has passed, announcements will be made to cancel the emergency response.

## **VUMC Exposure and Infection Control Policy**

Students enrolled at VUMC will be at risk for exposure to potentially hazardous material, chemicals and blood-borne pathogens or other work-related injury. Occupational exposure occurs when there is a puncture, scratch, laceration, splash, prolonged skin contact or contact with broken skin involving blood, body fluids, or other potentially infectious materials. Among the hazards that a student may be exposed to are:

- Housekeeping and/or cleaning agents
- Flammable and/or explosive chemicals and gases
- Electrical or mechanical equipment
- Fumes
- Radiation
- Blood-borne pathogens

Students will be instructed in the use of infection control and standard precautions, as well as safety in the workplace. If exposure or injury does occur during scheduled clinical education time, the student should follow the documented procedure for treatment.

- 1. Report the exposure/injury to the supervising staff IMMEDIATELY.
- 2. Take appropriate first aid measures (clean wound with soap/water; flush mucous membranes with water/saline for 15 minutes). If life-threatening, see Emergency Department (ED) physician immediately. If non-life threatening, seek treatment at the Occupational Health Clinic in the Medical Arts Building. If afterhours, seek treatment in the ED.
- 3. Get the name, medical record number and location of the exposure source, if the source is a patient.
- 4. Notify the Program Director.
- 5. Complete the Tennessee First Report of Injury and forward to Risk Management within 48 hours.
- 6. It is the student's responsibility to report any exposure/injury to their instructor and Program Director. Any identified incident found not to be reported may result in disciplinary action, up to or including dismissal from the program.

## **Infection Control for Patients**

During their normal program activities students will encounter patients who are in an immunosuppressed condition, putting these patients at a particularly high risk of contracting infectious diseases, including a cold, influenza and other communicable diseases. To some patients such an infection could be life- threatening. Because of this, if a student suspects he or she has acquired (or if he or she has been diagnosed with) an infectious condition, the student is prohibited from the clinical setting. This is absolutely essential in order to protect patients from infection by ill students. Any infectious condition should be reported by the student to the Program Director as soon as possible. Any student found to be withholding this type of information will face disciplinary action for unethical behavior. A clinical instructor who suspects that a student may be infectious may ask the student to leave the clinical setting and will notify the Program Director. After absence due to infectious disease, the student must be evaluated by a physician, and written permission from his/her physician must be obtained before returning to the clinical setting.

#### Mandatory Student Training Requirements/Compliance

Students participate in VUMC training modules related to patient safety, hygiene practices, professional conduct, etc., at the beginning of their enrollment and at certain intervals during enrollment. The specific modules required

by each program vary. Program sections of this catalog and/or program/student handbooks outline specific requirements for each program. All students are required to take at least the following modules:

- A. Safety Training Infection control, fire safety, and OHSA requirements
- B. Standards of Conduct (AIDET)
- C. HIPAA Regulations (Health Insurance Portability and Accountability Act)

## Maintenance of Program-Issued Equipment

All equipment – e.g., parking permits, ID badges, etc. – remains the property of VUMC, and the student to whom such items are issued is responsible for their care and use. Failure to return school- or program-issued items as required will result in the student being liable for the cost of such items. Such fees will be assessed and paid prior to the student being allowed to enroll for the next term or, for students in their final term, prior to graduation.

## **Limits of Confidentiality**

Imminent Harm to Self or Others. Consistent with Federal Law and Vanderbilt University Medical Center policy, VUMC may release student information normally considered confidential to appropriate individuals (e.g., health care personnel, police, etc.) if such information is necessary to protect the health or safety of the student or other individuals.

## **Program-Specific Policies, Rules and Regulations**

In addition to the student policies listed in this catalog, each VUMC program has student policies and regulations that are detailed in program-specific documentation, including the program sections of this catalog, each program's student/program handbook, course syllabi, etc. All students are also required to abide by all rules and regulations of VUMC and of the program in which they are enrolled. Students will receive access to their program's student/program handbook at orientation and may request a copy at any time.

## **Catalog Changes**

Information about Vanderbilt University Medical Center is published in this catalog, which contains a description of policies, procedures, and other information about the Center. Vanderbilt University Medical Center reserves the right to change any provision of the catalog at any time. Notice of changes will be communicated in a revised catalog, an addendum or supplement to the catalog, or other written format with an effective date. Students are expected to read and be familiar with the information contained in this catalog; in any revisions, supplements and addenda to the catalog; and with all institutional and program policies. By enrolling in Vanderbilt University Medical Center, the student agrees to abide by the terms stated in the catalog and all VUMC and program policies.

## STUDENT RIGHTS AND RESPONSIBILITIES

## **Student Rights**

- Students have the right to an impartial, objective evaluation of their academic performance.
- Students shall receive in writing, at the beginning of each course, information outlining the method of evaluating student progress toward, and achievement of, course goals and objectives, including the method by which the final grade is determined.
- Students are treated in a manner conducive to maintaining their worth and dignity. Students are not subject to any acts or threats of intimidation, harassment, mockery, insult, or physical aggression.
- Students are free from the imposition of disciplinary sanctions without proper regard for due process. Formal procedures have been instituted to ensure adequate notice and hearing for all students undergoing the disciplinary process.
- When confronted with injustices, students may seek redress through established grievance procedures.
   Details about these procedures are available in this VUMC Center for Programs in Allied Health (CPiAH)
   Catalog.
- Students may take reasonable exception to the data or views offered in any course of study and may form their own judgments, but they are responsible for learning the academic content of any course in which they are enrolled.
- Students will be given full disclosure and explanation of all fees and financial obligation to VUMC.
- Students have the right and responsibility to participate in course and preceptor evaluations and give constructive criticism of the services provided by VUMC.
- Students have the right to a quality education. This right encompasses quality programs; appropriate
  instructional methodologies and content; preceptors who have sufficient educational qualifications and
  practical expertise in the areas of instruction; the availability of adequate materials, resources and facilities
  to promote the application of theory; and an environment that stimulates creativity in learning as well as
  personal and professional growth.

#### Student Responsibilities

- Students have the responsibility to conduct themselves in a professional manner at all times and to abide by VUMC and CPiAH policies.
- Students are punctual, attentive and courteous in all classes, clinical rotations, and all other program
  activities.
- Students do not give or receive help during exams or on assignments (unless students are given permission to collaborate, such as with group assignments). Any student found to engage in these behaviors will be subject to disciplinary action, up to and including dismissal from the program.
- Unless explicitly permitted by an individual program or activity, cell phones and other electronic devices must be turned off during all learning activities.
- Children, family or friends of students are not permitted in VUMC teaching areas unless expressly authorized in advance by VUMC CPiAH personnel.
- Animals are not allowed on VUMC premises, unless as a part of a plan for special needs accommodation developed in conjunction with VUMC CPiAH administration. Students must follow all VUMC health and safety standards and guidelines.
- Each program outlines additional rules of conduct, and students are required to abide by these rules, in addition to those above.
- Students conduct all relationships with the staff and faculty, their peers, and patients with honesty and respect.

- Students comply with instructions from faculty and staff members acting within the scope of their employment.
- Students have the right and responsibility to develop personally through opportunities, such as formal education, work and volunteer experiences, extracurricular activities, and involvement with others.
- Students are encouraged to apply creativity to their own learning processes while striving for academic and clinical excellence and to share their knowledge and learning.

### Standards of Professional Conduct

To fulfill its health care mission of education, research and service to patients, VUMC adopts specific standards of ethics and conduct, which shall be followed by each member of the VUMC community. VUMC has created a standardized Code of Conduct, which provides a uniform set of guidelines that all VUMC faculty and staff must follow. Students are required to sign an acknowledgement of these standards during orientation. The full VUMC Code of Conduct is available at https://www.vumc.org/compliance/codeofconduct

In the VUMC Code of Conduct, the term "staff/faculty" includes VUMC faculty or staff members, as well as other persons who provide services at VUMC, including health care professionals with privileges at VUMC. The same level of conduct is expected of students.

## Honor Code of the VUMC Center for Programs in Allied Health / Academic Integrity

Students are admitted into VUMC programs based on their level of maturity and desire to become health care professionals. They are expected to demonstrate the highest level of honesty and ethical behavior. Plagiarism and cheating will not be tolerated. Such acts (and acts such as those listed below) will warrant an investigation, and findings will be presented to the Director of the Center for Programs in Allied Health for review. Appropriate disciplinary action will be determined by the Director of the Center for Programs in Allied Health, in consultation with the Program Director and any course-related faculty. Students may appeal the decision of the Director of the Center for Programs in Allied Health to the VUMC Executive Vice President for Educational Affairs. The decision of the VUMC Executive Vice President for Educational Affairs is final.

Student probation or dismissal from the program may result from concerns such as the following (this list is not exhaustive, but is provided as an example of violations of academic integrity expectations):

- Violation of standards of professionalism and academic integrity
- Cheating on an examination, test or written project
- Plagiarizing (incorporating into one's own work the work of another without identifying the source) in an assigned paper, report or project
- Submitting work prepared by another person as one's own (including use of texts, papers, computer programs, or other class work prepared by commercial or noncommercial agents)
- Submitting work prepared for another course without the specific prior authorization of the instructor of the course for which work is to be completed.
- Falsely reporting personal illness or work hours
- Falsification of results of study and research
- Alcohol and /or other substance abuse
- Patient Confidentiality (HIPAA) Violations Based on institutional policy, students violating HIPAA
  regulations relating to patient confidentiality may be placed on probation or dismissed from the program
  depending on the severity of the violation.
- Other actions that may warrant discipline ranging from probation to immediate dismissal from the program.
- Actions, including but not limited to dishonesty, violation of the law, material risks to Vanderbilt University
   Medical Center operations or to the safety or well-being of oneself or others.

#### Anti-Harassment, Nondiscrimination, and Anti-Retaliation

Vanderbilt University Medical Center (VUMC) is an Equal Employment Opportunity and Affirmative Action Employer. VUMC's Equal Opportunity and Affirmative Action Policy is reflected in the following statements (full policy is available online, at <a href="https://hr.vumc.org/policies/anti-harassment">https://hr.vumc.org/policies/anti-harassment</a>

It is important that Vanderbilt University Medical Center ("VUMC") faculty, staff and students enjoy an environment free from implicit and explicit behavior used to control, influence, or affect the well-being of any member of the VUMC community. Harassment of or discrimination against individuals based on their race, sex, religion, color, national or ethnic origin, age, disability, veteran status, or genetic information or any other characteristic protected under applicable federal, or state law is unacceptable and grounds for disciplinary action, and also constitutes a violation of federal and/or state law. Equally unacceptable within VUMC is the harassment of or discrimination against individuals on the basis of their sexual orientation, gender identity, or gender expression.

For purposes of this policy, harassment is any verbal or physical conduct designed to threaten, intimidate or coerce an employee, student, co-worker or any person working for or on behalf of VUMC. Verbal taunting (including racial and ethnic slurs) that, in the students opinion, impairs his or her ability to perform his or her job is included in the definition of harassment.

#### Sexual Harassment

Sexual harassment is a form of sex discrimination. It is illegal under state and federal law and is a violation of VUMC policy. Sexual harassment is prohibited under Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendment of 1972, and other applicable federal and state laws. Sexual harassment may take different forms. The following examples of sexual harassment are intended to be guidelines and are not exclusive when determining whether there has been a violation of this policy:

- Verbal sexual harassment may include, without limitation, innuendoes, suggestive comments, jokes of a sexual nature, sexual propositions, lewd remarks and threats; requests for any type of sexual favor (this includes repeated, unwelcome requests for dates); and verbal abuse or "kidding" that is oriented toward a prohibitive form of harassment, including that which is sexual in nature and unwelcome.
- Nonverbal sexual harassment may include, without limitation, the distribution, display or discussion of any
  written or graphic material, including calendars, posters and cartoons that are sexually suggestive or show
  hostility toward an individual or group because of sex; suggestive or insulting sounds; leering; staring;
  whistling; obscene gestures; content in letters and notes, facsimiles, e-mail, photos, text messages, tweets
  and Internet postings; or other form of communication that is sexual in nature and offensive.
- Physical sexual harassment may include, without limitation, unwelcome, unwanted physical contact, including touching, tickling, pinching, patting, brushing up against, hugging, cornering, kissing and fondling and forced sexual intercourse or assault.

The Office for Civil Rights of the Department of Education sets forth sexual harassment under Title IX as conduct can include unwelcome sexual advances, requests for sexual favors, and other verbal, nonverbal, or physical conduct of a sexual nature by an employee, by another student, or by a third party that is sufficiently severe, persistent, or pervasive to limit a student's ability to participate in or benefit from an education program or activity, or to create a hostile or abusive educational environment.

#### Racial and Other Harassment in the Work Environment

Harassment against individuals on the basis of their race, color, religion, or national origin is a form of unlawful discrimination and is prohibited under Title VII of the Civil Rights Act of 1964 and other applicable federal and state laws. When harassment based on an individual's race, color, religion, or national origin has the "purpose or

effect of substantially interfering with an individual's work performance or creating an intimidating, hostile, or offensive working environment," it rises to the level of unlawful discrimination. In addition, these principles apply to harassment on the basis of age, disability, leave status and genetic information under the Age Discrimination in Employment Act, the Americans with Disabilities Act, the Family and Medical Leave Act and the Genetic Information Nondiscrimination Act, respectively. Finally, VUMC, through its nondiscrimination statement, applies these principles to harassment on the basis of an individual's sexual orientation, gender identity, and gender expression.

The following examples of harassment are intended to be guidelines and are not exclusive when determining whether there has been a violation of this policy:

- Verbal harassment includes comments that are offensive or unwelcome regarding a person's nationality, origin, race, color, religion, gender, sexual orientation, age, body, disability or appearance, including epithets, slurs and negative stereotyping.
- Nonverbal harassment includes distribution, display or discussion of any written or graphic material that ridicules, denigrates, insults, belittles or shows hostility, aversion or disrespect toward an individual or group because of national origin, race, color, religion, age, gender, sexual orientation, pregnancy, appearance, disability, sexual identity, marital or other protected status.

#### Discrimination

Discrimination against individuals based on their race, sex, religion, color, national or ethnic origin, age, disability, veteran status, genetic information sexual orientation, gender identity, or gender expression, or any other characteristic protected under applicable federal, or state law is unacceptable and grounds for disciplinary action, and also constitutes a violation of federal and state laws.

#### Retaliation

In compliance with the law, VUMC does not retaliate against individuals for 1) filing or encouraging one to file a complaint of unlawful discrimination or report of illegal activity, 2) participating in an investigation of unlawful discrimination, or 3) opposing unlawful discrimination. In addition, the VUMC does not retaliate against individuals for filing or encouraging one to file a complaint of discrimination, participating in an investigation of discrimination, or opposing discrimination based on grounds not necessarily protected by federal or state law, but protected by the VUMC's nondiscrimination policy such as sexual orientation. "Retaliation" includes any adverse employment action or act of revenge against an individual for filing or encouraging one to file a complaint of discrimination, participating in an investigation of discrimination, or opposing discrimination.

#### Complaint Procedure

Any member of the VUMC community who experiences harassment or discrimination on the basis of his or her race, sex, religion, color, national or ethnic origin, age, disability, veteran status, military status, genetic information, sexual orientation, gender identity, or gender expression should immediately seek assistance from CPiAH administration/student services support.

## FERPA Rights (Family Educational Rights and Privacy Act)

VUMC respects the rights and privacy of its students and acknowledges the responsibility to maintain confidentiality of personally identifiable information. The Family Educational Rights and Privacy Act (FERPA) is a federal law that affords students certain rights with respect to their educational records. FERPA defines the rights of students to review their records, request a change to their records, and provide written consent to disclose personally identifiable information to a third party. The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. The following link provides further information about FERPA: https://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html

The Family Educational Rights and Privacy Act (FERPA), also referred to as "The Buckley Amendment", afford eligible students certain rights with respect to their education records. (An "eligible student" under FERPA is a student who is 18 years of age or older or who attends a postsecondary institution.) These rights include:

- 1. The right to inspect and review the student's education records within 45 days after the day the Vanderbilt University Medical Center, Center for Programs in Allied Health receives a request for access. A student should submit to the VUMC CPiAH office a written request that identifies the record(s) the student wishes to inspect. The school official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the school official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
- 2. The right to request the amendment of the student's education records that the student believes is inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA. A student who wishes to ask the school to amend a record should write the school official responsible for the record, clearly identify the part of the record the student wants changed and specify why it should be changed. If the school decides not to amend the record as requested, the school will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
- 3. The right to provide written consent before the VUMC discloses personally identifiable information (PII) from the student's education records, except to the extent that FERPA authorizes disclosure without consent.

The Family Educational Rights and Privacy Act provides the VUMC the ability to designate certain student information as "directory information." Directory information may be made available to any person without the student's consent unless the student gives notice as provided for below. VUMC CPiAH has designated the following as directory information: the student's name, addresses, telephone number, e-mail address, date and place of birth, field of study, school, classification, dates of attendance, degrees and awards received, the most recent previous educational agency or institution attended by the student, and other similar information. Any new entering or currently enrolled student who does not wish disclosure of directory information should notify their Program Director in writing. No element of directory information as defined above is released for students who request nondisclosure except in situations required by law. The request to withhold directory information will remain in effect as long as the student continues to be enrolled, or until the student files written request with their Program Director to discontinue the withholding. To continue nondisclosure of directory information after a student cease to be enrolled, a written request for continuance must be filed with their Program Director during the student's last term of attendance.

If a student believes VUMC has failed to comply with The Family Educational Rights and Privacy Act, he or she may file a formal written complaint with the Center for Programs in Allied Health, Vanderbilt University Medical Center, B-802 TVC, 1301 22nd Avenue, Nashville, TN 37232-5510. The complaint will be investigated by the Director of the Center for Programs in Allied Health, and the requesting student will be notified of the outcome of the investigation. Students may also file a written complaint with the Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue SW, Washington, DC 20212-5920.

FERPA permits the disclosure of PII from students' education records, without consent of the student, if the disclosure meets certain conditions found in §99.31 of the FERPA regulations. Except for disclosures to school officials, disclosures related to some judicial orders or lawfully issued subpoenas, disclosures of directory information, and disclosures to the student, §99.32 of FERPA regulations requires the institution to record the disclosure. Eligible students have a right to inspect and review the record of disclosures. A postsecondary institution may disclose PII from the education records without obtaining prior written consent of the student:

- To other school officials, including teachers, within the VUMC, whom the school has determined to have legitimate educational interests. This includes contractors, consultants, volunteers, or other parties to whom the school has outsourced institutional services or functions, provided that the conditions listed in §99.31(a)(1)(i)(B)(1) (a)(1)(i)(B)(2) are met. (§99.31(a)(1))
- To officials of another school where the student seeks or intends to enroll, or where the student is already enrolled if the disclosure is for purposes related to the student's enrollment or transfer, subject to the requirements of §99.34. (§99.31(a)(2))
- To authorized representatives of the U. S. Comptroller General, the U. S. Attorney General, the U.S. Secretary of Education, or State and local educational authorities, such as a State postsecondary authority that is responsible for supervising the VUMC's State-supported education programs. Disclosures under this provision may be made, subject to the requirements of §99.35, in connection with an audit or evaluation of Federal- or State-supported education programs, or for the enforcement of or compliance with Federal legal requirements that relate to those programs. These entities may make further disclosures of PII to outside entities that are designated by them as their authorized representatives to conduct any audit, evaluation, or enforcement or compliance activity on their behalf. (§§99.31(a)(3) and 99.35)
- In connection with financial aid for which the student has applied or which the student has received, if the information is necessary to determine eligibility for the aid, determine the amount of the aid, determine the conditions of the aid, or enforce the terms and conditions of the aid. (§99.31(a)(4))
- To organizations conducting studies for, or on behalf of, the school, in order to: (a) develop, validate, or administer predictive tests; (b) administer student aid programs; or (c) improve instruction. (§99.31(a)(6))
- To accrediting organizations to carry out their accrediting functions. ((§99.31(a)(7))
- To parents of an eligible student if the student is a dependent for IRS tax purposes. (§99.31(a)(8))
- To comply with a judicial order or lawfully issued subpoena. (§99.31(a)(9))
- To appropriate officials in connection with a health or safety emergency, subject to §99.36. (§99.31(a)(10))
- Information the school has designated as "directory information" under §99.37. (§99.31(a)(11))
- To a victim of an alleged perpetrator of a crime of violence or a non-forcible sex offense, subject to the requirements of §99.39. The disclosure may only include the final results of the disciplinary proceeding with respect to that alleged crime or offense, regardless of the finding. (§99.31(a)(13))
- To the general public, the final results of a disciplinary proceeding, subject to the requirements of §99.39, if the school determines the student is an alleged perpetrator of a crime of violence or non-forcible sex offense and the student has committed a violation of the school's rules or policies with respect to the allegation made against him or her. (§99.31(a)(14))
- To parents of a student regarding the student's violation of any Federal, State, or local law, or of any rule or policy of the school, governing the use or possession of alcohol or a controlled substance if the school determines the student committed a disciplinary violation and the student is under the age of 21. (§99.31(a)(15))

# STUDENT GRIEVANCE POLICY

The purpose of the grievance policy is to provide a prompt and equitable means of resolving student grievances. This procedure is available to any student or applicant for admission, who believes a decision or actions, has adversely affected their status, rights, and/or privileges. VUMC strongly urges students who have a grievance to pursue the grievance until a satisfactory resolution is reached. Most grievances can be resolved at their origin, and it is suggested that students utilize the following procedure:

- Discuss the problem with the person directly involved. If in fear of safety or need to speak in confidentially, please inform the Program Director or other trusted program faculty member. If the program has program-level grievance procedures, those procedures should be followed before moving to an institutional level grievance (next step).
- If the concern is not resolved to the student's satisfaction by the Program Director (or otherwise at the program level), the student should submit the grievance in writing, and by appointment, meet with the Director of the Center for Programs in Allied Health regarding the unresolved concern, by mail at 1301 Medical Center Drive, B-802, The Vanderbilt Clinic, Nashville, TN 37232 or by telephone at (615) 875-3666.
- If at this time the grievance is not resolved, the grievance will be heard by the VUMC Executive Vice President of Educational Affairs (EVP-EA). The final decision of the EVP- EA will be provided to the Program Director and to the student within five business days. The decision of the EVP-EA is final.
- Any person claiming damage or loss as a result of any practice by this institution that may be a violation of the Title 49,
  Chapter 7, Part 20 or Rule Chapter 1520-01-02, students may file a complaint with the Tennessee Higher Education
  Commission, Division of Postsecondary State Authorization. The Tennessee Higher Education Commission can be
  contacted by telephone at (615) 741-3605 or by mail at Tennessee Higher Education Commission, 404 James Robertson
  Parkway, Suite 1900 Nashville, TN 37243"

## FINANCIAL RESPONSIBILITIES

Each VUMC Program's cost of attendance for the academic year beginning July 1 – June 30 of the following year is as follows (tuition and fees other than Books/Laptop are not estimates; students will be responsible for the amounts for those items as they appear below):

2022-2023 Estimated Cost of Attendance						
PROGRAM	CREDIT/CLOCK HOURS	APPLICATION FEE	TUITION	FEES	BOOKS	TOTAL COST
Diagnostic Medical Sonography	107.5 quarter credit hours	\$50	\$14,000	\$3,287	\$894	\$18,231
Dietetic Internship	1286 clock hours	\$75	\$12,500	\$2,855	\$131	\$15,561
Medical Laboratory Science	75 semester credit hours	\$50	\$7,500	\$2,362	\$685	\$10,597
Nuclear Medicine Technology	56 semester credit hours	\$50	\$4,500	\$3,222	\$1,045	\$8,794
Perfusion	96 semester credit hours	\$100	\$39,000	\$6,504	\$1,965	\$47,569
Pharmacy Technician	624 clock hours	\$50	\$4,000	\$2,397	\$276	\$6,723

<sup>\*</sup>Please note that fees may vary by program.

Tuition and fees are made payable to VUMC, unless otherwise indicated. Students are required to pay the tuition and fees for each term prior to the beginning of classes for that term. Students with an unpaid tuition balance may be ineligible to attend class unless other arrangements have been made with the Center for Programs in Allied Health.

Students are required to pay various fees to VUMC upon application, enrollment, and during the course of study. Other expenses not directly related to education, such as health insurance fees, housing, transportation, meals, etc., are considered when calculating the anticipated cost of attendance, but in some cases, they may not be payable to VUMC. See "third party expenses" for an estimate of these costs.

All other expenses related to attending the program are the responsibility of the student. Specific additional expenses vary by program and are outlined in the program section of this catalog. Examples of such expenses include, but are not limited to:

- Health insurance
- CPR certification
- Immunizations
- Uniforms
- Travel to and from clinical assignments
- Housing Expenses
- Meals
- Parking
- Books
- Professional Credentialing

Please check the relevant program section of this catalog for more information on fees specific to each program. There are no additional administrative fees related to distance/blended educational activities.

## Student's Right to Cancel / Cancellation Refund Policy

A student has the right to cancel their program of instruction, without any penalty or obligations, through the third (3<sup>rd</sup>) business day after signing the enrollment agreement ("Cancellation Period"). Subsequent to this three-day cancellation period, but prior to the start of orientation/classes, the student may request cancellation and will receive a refund of all monies paid, less a non-refundable processing fee of \$100 and any necessary deductions for books, equipment, supplies or services provided to the student by VUMC. All property of VUMC including the student issued ID badge must be returned in new condition, within five (5) business days after the notice of cancellation takes effect.

After the end of the cancellation period, the student also has the right to withdraw from school at any time (please see "Withdrawal Policy", below).

Cancellation is considered to have occurred when the student provides written notice via e-mail communication or by hand delivery.

- E-mail: kristen.smith@vumc.org
- Hand Delivery: 2215 Garland Ave, Nashville, TN 37232-0495 (Light Hall, Room 312)

The written notice of cancellation if sent by e-mail communication is effective upon sent timestamp. If the written notice of cancellation is hand-delivered, it is effective when it is received by the Center for Programs in Allied Health.

Students who cancel according to the terms described above will be refunded within three (30) business days after notification of cancellation occurs.

## Student Withdrawal from the Program / Withdrawal Refund Policy

A student may withdraw from the school at any time after the cancellation period (described above) and receive a pro rata refund of tuition (and all fees not yet paid to a third party by VUMC on the student's behalf) if the student has completed sixty (60) percent or less of the scheduled program hours in the current payment period (the percent completed is based on the last day of documented attendance). The refund will be less a processing fee not to exceed \$100, and less any deduction for books, equipment, or supplies (not including scrubs or lab coat) provided by the program but not returned in new condition, within five (5) business days of withdrawal. If the student has completed more than 60% of the current payment period, the tuition is considered earned, and the student will receive only a refund of fees that have not been paid to a third party by VUMC on the student's behalf.

For the purpose of determining a refund under this section, a student may be deemed to have withdrawn from a program of instruction when any of the following occurs:

- 1. The student notifies the institution in writing of their desire to withdraw. Withdrawal notification must be provided in writing to the following address: Vanderbilt University Medical Center, Center for Programs in Allied Health, 1301 Medical Center Drive, B-802 TVC, Nashville, Tennessee 37232-5510.
  - The withdrawal may be provided by mail or by hand delivery.
  - The written notice of withdrawal, if sent by U.S. Mail, is effective when the notice is postmarked, or as of
    the date of mailing, if proof of registered delivery is provided. If the written notice of withdrawal is handdelivered, it is effective when it is received by the Center for Programs in Allied Health.
- 2. The student fails to participate as required in educational activities for at least three (3) consecutive business days. The student fails to return from a leave of absence. The institution terminates the student's enrollment for failure to maintain satisfactory academic progress; failure to abide by the rules and regulations of the institution; absences in excess of the maximum set forth by the program; and/or failure to meet financial obligations to VUMC.

#### Definitions:

- Last date of attendance is the last day a student had academically related activity, which may include projects, clinical experience, or examinations.
- Date of withdrawal determination is the date that an institution determined that a student was no longer in school.
- Payment period for a **credit-hour** program is considered the semester or quarter.
- Payment period for a **clock-hour** program if the program is one academic year or less in length:

- The first payment period is the period in which the student successfully completes half of the credit or clock-hours AND half of the weeks of instructional time in the program.
- The second payment period is the period in which the student completes the remainder of the program.

For the purpose of determining the amount of the refund, the date of the student's withdrawal shall be deemed the last date of recorded attendance. The amount owed equals the daily charge for the program (total institutional charges, minus non-refundable fees, divided by the number of days in the program), multiplied by the number of hours scheduled to attend, prior to withdrawal.

If a student is owed a refund, all monies due will be refunded within 45 calendar days after the date of VUMC's determination that the student has withdrawn. Students withdrawing from VUMC programs are required to return their student IDs immediately.

If a student has received federal student financial aid funds, the student is entitled to a refund of monies not paid from federal student financial aid program funds. If any portion of the tuition was paid from the proceeds of a loan or third party, the refund shall be sent to the lender, or other third party if appropriate.

## Refund Policy

After a student starts school, he/she will be obligated for tuition payments as follows:

FOR A STUDENT WHO TERMINATES	VUMC WILL REFUND
within the first 10% of the program	90% of the program cost
within the first 20% of the program	80% of the program cost
within the first 30% of the program	70% of the program cost
within the first 40% of the program	60% of the program cost
within the first 50% of the program	50% of the program cost
within the first 60% of the program	50% of the program cost
after 60% of the program	0% of the program cost

### **Private Loans**

If a student receives a private loan to pay for the educational programs, VUMC is in no way involved with the agreement between the lender and the student. All inquiries related to such loans should be directed to the lender. VUMC will confirm appropriate student enrollment information with a private lender at the lender's request, in order to process private loans.

#### **Veterans Benefits and Transition Act of 2018**

Section 103 of Public Law 115-407, the Veterans Benefits and Transition Act of 2018, prohibits denial of access and/or other penalties against student veterans using Post 9/11 (Chapter 33) or Vocational Rehabilitation (Chapter 31) benefits effective August 1, 2019. As part of the Veterans Benefits and Transition Act of 2018, section 3679 of title 38, United States Code was amended. The State approving agency, or the Secretary when acting in the role of the State approving agency, shall disapprove a course of education provided by an educational institution that has in effect a policy that is inconsistent with the areas below:

NOTE: A Covered Individual is any individual who is entitled to educational assistance under chapter 31, Vocational Rehabilitation and Employment, or chapter 33, Post-9/11 GI Bill benefits.

VUMC permits any covered individual to attend or participate in the course of education during the period beginning on the date on which the individual provides to the educational institution a certificate of eligibility for entitlement to educational assistance under chapter 31 or 33 (a "certificate of eligibility" can also include a "Statement of Benefits" obtained from the Department of Veterans Affairs' (VA) website – eBenefits, or a VAF 28-1905 form for chapter 31 authorization purposes) and ending on the earlier of the following dates:

- 1. The date on which payment from VA is made to the institution.
- 2. 90 days after the date the institution certified tuition and fees following the receipt of the certificate of eligibility.

VUMC ensures that it will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement funding from VA under chapter 31 or 33.

## FINANCIAL AID

#### **Our Mission**

The Office of Financial Aid coordinates the awarding of all financial assistance. The financial aid office is committed to providing financial assistance to all eligible students desiring to pursue higher education. Bridging the gap between student resources and the actual cost of education, VUMC Center for Programs in Allied Health ensures that students are offered the maximum amount of financial aid for which they qualify under Title IV programs. Federal financial aid is awarded without regard to race, color, age, gender, ethnic origin, creed, or physical ability.

## Free Application for Federal Student Aid (FAFSA)

Disclaimer: VUMC is not an approved institution to administer Federal Student Aid but is in the application process to participate in the 2022-2023 award year. Federal financial aid is administered in accordance with federal methodology and federal regulations established by the U.S. Department of Education. Students are required to complete the Free Application for Federal Student Aid (FAFSA) to establish eligibility for federal financial assistance. The Title IV school code for Vanderbilt University Medical Center is 042867.

The FAFSA application process is a free service provided by the US Department of Education. Students will not be asked to pay a fee to use it; therefore, students are directed to visit <a href="https://studentaid.gov/h/apply-for-aid/fafsa">https://studentaid.gov/h/apply-for-aid/fafsa</a> to complete the application.

Students must meet the following criteria to be eligible for federal financial aid:

- submit the FAFSA to the processor using https://studentaid.gov/h/apply-for-aid/fafsa;
- be a US citizen or eligible non-citizen;
- hold a high school diploma, hold a recognized equivalent of a high school diploma such as a GED, or have completed homeschooling at the secondary level as defined by state law;
- be issued a valid Social Security Number;
- be current with prior student loan obligations and clear of default;
- comply with current Selective Service laws;
- be fully admitted and enrolled in a degree-seeking program;
- maintain satisfactory academic progress toward a degree;
- be enrolled at least half time (6 credit hours) for Federal Direct Loans;
- certify that federal student aid will be used only for educational purposes.

The Higher Education Act of 1965 as amended (HEA) suspends aid eligibility for students who have been convicted under federal or state law in the sale or possession of drugs, if the offense occurred during a period of enrollment for which the student was receiving federal student aid (grants, loans, and/or work-study).

Students subject to involuntary civil commitment after completing a period of incarceration for a forcible or non-forcible sexual offense are ineligible to receive Federal Pell Grants.

#### **Verification Process**

As a result of filing the FAFSA, the filer is sent a Student Aid Report (SAR). The Institution is sent an electronic version from the federal processor. Once the results are received by the financial aid office, it will be reviewed to determine eligibility. Students may be selected to provide additional documentation, as necessary, through a process called verification. If selected, you will receive an email notification from the financial aid office requesting the additional documentation. Deadline to submit verification documentation is 45 days from the date of your email request. The verification process must be completed before federal aid can be applied to your account. Failure to return documents by the deadline could result in delays or cancellation of federal aid. Students may be required to make out of pocket payments toward their term or may be dropped from classes

for non-payment. When the verification process is finished, students will receive an email confirming the verification review is complete. If the documentation is not received by the deadline and the student is no longer enrolled, the student becomes ineligible for federal assistance for that period. If the student is still enrolled, and turns in documents past the deadline, the financial aid office can accept documentation on case-by case basis, decide to verify, and award aid.

## **Awards and Disbursements**

Once requirements are met for awarding aid, students will be emailed to accept or decline their financial aid awards in Campus Ivy. Financial aid will only be disbursed once the awards are confirmed. First time, first year students will not receive loan proceeds until completing the first 30 days of the term.

Award amounts may not exceed the students cost of attendance (COA). A school may substitute certain types of loans for the student's expected family contribution (EFC). Federal loans that may replace the EFC include unsubsidized Direct Loans and Direct Parent Loans for Undergraduate Students, (PLUS).

Aid awarded to students is determined by the below formula:

Cost of Attendance (Budget)

minus EFC

equals Student Need minus Pell Grant

minus SEOG, Scholarships, grants, work-study, fee waivers, discounts...etc.

equals Loan Eligibility

The cost of attendance is an estimate of the cost of attending VUMC Center for Programs in Allied Health for an academic year and based on whether the student is living with parents or away from parents. The components include tuition, fees, housing, books, and transportation. The COA or budget is listed on the financial aid offer letter.

VUMC Center for Programs in Allied Health reserves the right to adjust awards at any time because of changes in financial situations, enrollment status and/or if the student receives additional outside aid. **Students are** required to notify the financial aid office of any outside aid awarded to them by other sources.

## Federal Aid Cancelation Policy

If you have signed a financial aid offer letter for this term, your federal student aid (FSA) will be disbursed within 14 days of the date of this invoice\*. If your federal aid generates a credit balance on your account, you will be mailed an overage check. You have a right to cancel all or part of the grant(s) and/or loan disbursement(s) you were awarded. To cancel any or all your federal student aid, you must confirm in writing the FSA award(s) and amounts(s) and send your request to the Business Office within 14 days of the date of this invoice.

If the request for canceling any portion of your aid is received within the time frame (above), any disbursed grant/loan funds will be returned, and any undisbursed grant/loan portions will be automatically canceled. You will be responsible for any unpaid balance on your VUMC Center for Programs in Allied Health account.

#### Sources of Federal Aid

The **Federal Pell Grant** is a federal grant program for undergraduate students who have demonstrated a significant degree of financial need. These are grants that do not need to be repaid. Students who hold a prior Bachelor's degree are not eligible to receive Federal Pell Grant funding. Effective July 1, 2012, eligibility for the Pell Grant is limited to 12 semesters of full-time payments or its equivalent. Students can track their remaining eligibility on <a href="https://nsldsfap.ed.gov/nslds\_SA/">https://nsldsfap.ed.gov/nslds\_SA/</a>, or through their Student Aid Report. Federal Pell Grants are prorated depending upon a student's enrollment status (i.e., less than half-time, half-time, three -quarter-time, full-time).

Changes in enrollment status may affect the award amount. Full time Pell grant awarding requires a student to enroll in at least 12 hours for the term.

The **Federal Direct Loan Program** offers low-interest educational loans to students who are enrolled at least half-time. Direct Loans may fall into one of two categories, subsidized or unsubsidized, depending on a student's financial need. Interest, for subsidized or need-based Direct Loans, is paid by the federal government while the student is enrolled at least-half time in an eligible institution and extended for a six-month period upon graduation. Direct Loan statutory requirements now limit first-time borrower's eligibility for subsidized loans to a period not to exceed 150% of the length of the borrower's educational program ("the 150% limit"). Interest for unsubsidized or non-need-based Direct Loans, will begin accruing when the loan is disbursed and is assessed to the student. All Direct Loans are guaranteed by the federal government and are provided through the U.S. Department of Education. To accept a Direct Loan, the student must accept the loan offer on the financial aid offer letter. All first-time borrowers must complete student loan entrance counseling and complete a Master Promissory Note at <a href="https://studentaid.gov/">https://studentaid.gov/</a>. The loans must be repaid.

Recipients of Direct Loans are required to complete an exit counseling session upon graduation, dropping below half-time status, or upon official or unofficial withdrawal from the Institution; and will be emailed exit counseling information. Online exit counseling can be performed at <a href="https://studentaid.gov/">https://studentaid.gov/</a>. Repayment traditionally begins six months after the student ceases to be enrolled at least half-time (loans have a one-time grace period).

The **Federal Direct PLUS Loan Program** offers loans to parents of dependent students enrolled at least-half time, to help subsidize their student's education. Credit approval is required by the Department of Education. Borrowers with adverse credit, who qualify for the PLUS Loan, will be required to complete PLUS Counseling. Borrowers will need to complete this counseling requirement at <a href="https://studentaid.gov/">https://studentaid.gov/</a>. Interest on the PLUS loan begins to accrue upon disbursement and billing for the loan begins within 60 days of disbursement. PLUS loan requests should be made in writing to the financial aid office. For additional information and to complete the PLUS Master Promissory Note, please visit the <a href="https://studentaid.gov/">https://studentaid.gov/</a> website.

## **Military Benefits**

The State Approving Agency (SAA) of the Tennessee Higher Education Commission (THEC) is responsible for approving courses at VUMC Center for Programs in Allied Health for payment by the US Department of Veterans Affairs. Students desiring to receive Veteran's education benefits must complete an application and submit it to the regional processing office. Students may complete this application at <a href="www.benefits.va.gov">www.benefits.va.gov</a>. In addition, students must submit a copy of any DD-214 to the Department of Veterans Affairs. To be eligible to receive Veteran's education benefits, students must be admitted into a degree-seeking program. Students may not receive benefits until all official transcripts have been received and evaluated by the Institution. The Financial Aid and Enrollment Coordinator at VUMC Center for Programs in Allied Health is the VA school certifying official and will certify a student only after his or her attendance has been confirmed.

Questions concerning eligibility benefits or payment amounts should be addressed directly to the Department of Veterans Affairs. Please consult the above URL or call the VA at 1.888.442.4551 for additional information.

#### **National Resource Directory**

The National Resource Directory has been created by the US Departments of Defense, Labor and Veteran Affairs specifically for Wounded Warriors, Veterans and their families and caregivers. The National Resource Directory provides access to over 10,000 services and resources at the national, state, and local levels to support recovery, rehabilitation, and community reintegration. The website for the National Resource Directory is located at <a href="https://nrd.gov/">https://nrd.gov/</a>.

## Alternative/Private Education Loans

Sometimes federal loans are not enough to cover all educational expenses, or the student may not be eligible for federal assistance. For this reason, there are private, credit-based loans available that may be used as a supplemental resource for paying institutional costs. These loans are offered by commercial lenders, direct loan servicers or state loan authorities. Qualifications and eligibility criteria vary by lender. Students may borrow up to the cost of attendance minus all other financial aid received. When borrowing a private loan, make informed decisions and consider:

- 1. Comparing lenders and their private loan product,
- 2. Borrowing only what you need,
- 3. Understanding your loan term, fees, payment, interest rate, and when you enter repayment.

You may check out <a href="https://finaid.org/loans/privatestudentloans/">https://finaid.org/loans/privatestudentloans/</a> to begin your search of private loan lenders. VUMC Center for Programs in Allied Health does not recommend any specific loan product. You may choose to borrow through any lender.

## Satisfactory Academic Progress Policy for Federal Aid

Federal regulations require all federal financial aid recipients be enrolled in a degree-seeking program and maintain satisfactory academic progress (SAP) toward a degree to remain eligible. Satisfactory academic progress standards for federal financial aid apply to all students whether they are receiving federal aid and must be taken into consideration when a student begins to receive federal aid.

Student academic transcripts will be reviewed by term. Entering students are considered to be making satisfactory academic progress. The institution is required to apply qualitative and quantitative measures, which include grade point, pace of completion and maximum allowable time frame standards, to determine academic progress. Students not meeting the requirements after one academic year, or two consecutive terms, will lose future federal aid eligibility. If a student fails to meet SAP, they will receive a letter from the financial aid office stating they have lost Title IV (federal) aid eligibility.

## **Qualitative Requirement**

The table below presents the minimum qualitative average required for each eligible program.

Program Name	Term 1	Term 2	Term 3	Term 4
Medical Laboratory	75% average, Grade: C,	75% average, Grade: C,		
Science	CGPA: 2.0	CGPA: 2.0		
Diagnostic Medical	75% average Grade: C,	75% average, Grade: C,	75% average, Grade: C,	75% average, Grade: C,
Sonography	CGPA: 2.0	CGPA: 2.0	CGPA: 2.0	CGPA: 2.0
Nuclear Medicine	75% didactic/75% clinical	75% didactic/75% clinical,		
Technology	Grade: C, CGPA: 2.0	Grade: C, CGPA: 2.0		

Note: Only the programs listed above are eligible for Federal Student Aid.

#### **Quantitative Requirement**

Students must successfully earn annually a cumulative minimum of 2/3 or 66.67% of all hours attempted. Successfully completed hours are earning a letter grade of a C or higher. Some courses may have a specific passing grade requirement. In such cases, the student must earn the specified grade to be considered to have successfully completed the hours. Students cannot receive federal aid after attempting 150% of the hours required for the completion of their academic program. This is referred to as the maximum allowable time frame. Example: A degree takes 120 hours to complete, so a student may attempt up to 180 credits (120 x 150% = 180) before being ineligible for federal aid.

A student who loses federal aid eligibility because of not meeting SAP will regain eligibility when it is determined that the standards have been met or when an appeal has been approved. It is the student's responsibility to notify the Financial Aid Office of any adjustments in their transcript, and if the student meets the standards, then financial aid will be reinstated.

#### Transfer credit

Transfer credit will be counted as attempted and earned hours. Incoming GPA will be used to assess the qualitative requirement. Courses that are repeated will count towards attempted hours each time the course is repeated but will be included as completed only once.

#### Withdrawals and Incompletes

Eligibility for federal programs will be evaluated as part of the initial application process and again annually. Students must complete and pass 2/3 or 66.67% of the classes attempted. In the evaluation process, all grades of "W" (withdrawn) or "I" (incomplete) will be counted as hours attempted but not passed and will also count towards the 150% maximum allowable time frame. When evaluating SAP, incompletes will be considered the same as an "F". A student MUST complete the class in order for the "I" to be changed to an actual letter grade (A, B, C, D, or F) before SAP is evaluated.

## Repeating Courses

The Assistant Director's office will calculate the GPA for students who repeat a course at the end of each term. Repeated courses will count towards attempted hours but will be included as completed only once. Students must notify the Financial Aid Office if a course is to be repeated to determine if it would impact academic progress. Students may only receive financial aid funding for one repetition of a previously passed course.

## Additional Bachelor's Degree

Students who have already earned a bachelor's degree but are working on another undergraduate degree may be eligible to receive Federal Direct Loans at the undergraduate limit. New borrowing may be affected by the aggregate limits of prior undergraduate borrowing. Students must submit a completed **Additional Bachelor's Degree Form** to the financial aid office (forms may be acquired from the financial aid office). Students will be monitored under the Satisfactory Academic Progress Policy. The maximum timeframe allowed is 150% of the additional hours needed to complete an additional bachelor's degree with the existing "overall" credit hours previously attempted for the first bachelor's degree. This new value will establish the new maximum timeframe that the student can receive financial aid.

## Financial Aid Warning and Suspension

## Financial Aid Warning

The student is not in compliance with the standard policy and is at risk of losing eligibility for federal aid. The student will be placed on financial aid warning for the subsequent term. While on warning, a student is eligible for financial aid. During the period of warning (a period of one term), the student is expected to come into compliance with the standard SAP Policy as described above or maintain compliance with the academic plan outlined for them. Failure to meet the terms of the academic plan will result in the student being placed on financial aid suspension and will lose eligibility for federal aid.

#### Financial Aid Suspension

The student is not in compliance with the standard policy and will lose eligibility for federal aid and be placed on financial aid suspension, until they have appealed with a favorable decision.

## Satisfactory Academic Progress Appeals Process

Eligibility for financial aid may be reestablished by citing extenuating circumstances which have caused a hardship. The appeal would be in the form a written request with supporting documents submitted to the financial aid director. Extenuating circumstances are generally beyond one's control, such as an accident, illness, or death in the immediate family. It is the student's responsibility to secure and provide a full written appeal to the financial aid office. Appeals made without supporting documents will not be considered. Appeals will not be accepted through verbal requests. The appeal will be reviewed by an Appeals Committee and a decision issued

in writing within 7 business days. All decisions are final. If an appeal is denied, the student may attend VUMC Center for Programs in Allied Health but will be responsible for their own educational costs. If your appeal is denied, you must earn reinstatement on your own. Students granted a reinstatement of financial aid through the appeal process will have their progress checked in their next term, and then annually, to stay in compliance with the SAP policy. A student must show academic progress to remain eligible for federal aid. The deadline to submit an appeal is 2 weeks prior to the first day of the term for which the student is requesting federal aid.

#### Academic Plan

The Appeals Committee may approve a request for reinstatement of financial aid but request an academic plan for the student. The academic plan can require that a student meet a specified number of hours per term or a specific GPA other than the requirement of the SAP. Students placed on an academic plan must meet the requirements of that plan each term in order to retain federal student aid eligibility for future terms.

#### Withdrawal Policy

Students, who elect to withdraw from their educational program before completing their term and after the cancellation period, must make known their intent with the Assistant Director in writing as described previously in the Financial Responsibilities section of this catalog. The Assistant Director will inform the Financial Aid and Enrollment Coordinator of the student's last date of attendance. Although federal aid is posted to your account at the beginning of the term, you earn funds as you complete the term. Students who receive financial assistance for that enrollment period will have their financial aid award recalculated according to your withdrawal date and within federal regulations. Always check with the financial aid office before dropping or withdrawing.

## Return of Title IV Aid

Students who officially or unofficially withdraw, fail to return from an approved leave of absence, or are dismissed from enrollment at VUMC Center for Programs in Allied Health, may owe a repayment of financial aid (Title IV) funds. (Title IV funds include Pell Grants, SEOG, Subsidized and Unsubsidized Direct Loans, and Parent PLUS Loans). Students should be aware that eligibility for financial aid may be jeopardized by dropping classes or withdrawing from VUMC Center for Programs in Allied Health after financial aid has been disbursed. Student awards are developed and disbursed based on the student's enrollment status at the time of registration. The amount of assistance a student earns is determined on a pro rata bases (if you complete 30% of your payment period or period of enrollment, you earn 30% of the assistance you were originally scheduled to receive). Students who withdraw prior to completing 60% of the term will have their financial aid prorated and unearned funds returned. After the 60% point, the student is deemed to have earned 100% of the Title IV funds. Federal Title IV funds will be returned based on the percentage of period completed. VUMC Center for Programs in Allied Health has 45 days from the date that it determines a student withdrew to return all unearned funds for which it is responsible.

Federal regulations stipulate how the return of Title IV Funds is calculated and for students who have received federal assistance, the aid must be returned to the appropriate program in the following order:

- Unsubsidized Federal Stafford Loan
- Subsidized Federal Stafford Loan
- Federal PLUS Loan
- Federal Pell Grant
- Federal SEOG
- Other Title IV grants
- Scholarships, that donors specify to be returned in full or part\*
- Students will be billed for any unpaid institutional charges that result from the return of funds to the Title IV programs.

In some cases, a student may be eligible to receive a "post-withdrawal" disbursement after the student completely withdraws from school when the amount of aid earned is less than the amount of aid disbursed. This must be paid to the student within 120 days of student's withdrawal. In such cases, the financial aid office will notify the student of the "post-withdrawal" disbursement via an financial aid offer letter. The school will advise the student or parent that they have 14 calendar days from the date the school sent notification to accept a post withdrawal disbursement.

#### **Consumer Information**

The Higher Education Act of 1965 (HEA), as amended by the Higher Education Opportunity Act of 2008 (HEOA), include requirements for disclosing information to the public. It is our hope that this concerted effort between VUMC Center for Programs in Allied Health and the Department of Education to provide pertinent consumer data will allow all students access to information they need to make the best decision possible for them and their future. These disclosures may be obtained from the VUMC Center for Programs in Allied Health administrative offices or by visiting the VUMC Center for Programs in Allied Health website at <a href="https://www.vumc.org/allied-health/center-programs-allied-health">https://www.vumc.org/allied-health/center-programs-allied-health</a>.

## Financial Aid Rights and Responsibilities

#### As a recipient of financial aid, you have the right to:

- 1. Know the correct procedures of applying for student financial aid, your cost of attendance, and the types of aid available.
- 2. Know how financial need is determined, what the criteria are for awarding aid, how academic progress is determined, and what you must do to continue receiving aid.
- 3. Know the type and amount of assistance you will receive, the deadlines for submitting applications, how much of your need has been met, and how and when you will receive your aid funds.
- 4. View the contents of your student financial aid file, in accordance with the Family Educational Rights and Privacy Act.
- 5. Know the terms and conditions of any loan you accept. Know what portion is grant aid and what portion is to be repaid.
- 6. Know the terms, conditions, and pay rate for any student job you accept under the Federal Work Study Program.
- 7. File an appeal to a SAP (Satisfactory Academic Progress) decision with the financial aid office in regard to your application. The deadline to submit an appeal is 2 weeks prior to the first day of the term for which the student is requesting federal aid.

#### As a recipient of financial aid, you are responsible for:

- 1. Researching and considering all information about a school's program before you enroll.
- 2. Completing and submitting application materials to the appropriate agencies within required or recommended time frames. All undergraduate students who are fully admitted and degree seeking can complete the Free Application for Federal Student Aid (FAFSA) for the following school year any time after midnight on January 1st of the preceding year. Families can use "estimated" tax information to complete the FAFSA form. However, you should update the FAFSA once you submit your return to the Internal Revenue Service (IRS). No aid will be disbursed on estimated tax information.
- 3. Reading all materials sent to you from the financial aid office and other agencies awarding you aid. Read, understand, and keep copies of all forms you sign. The email address you submit on the FAFSA is the email address the financial aid office will use to communicate with you until you are officially enrolled. You will need to update this address with the financial aid office and other school officials if this changes. Once a VUMC.org student email address has been assigned to you, the institution will use this address for all subsequent communication.

- 4. Knowing and complying with the rules governing the aid you receive. These rules include but are not limited to:
  - a. You must not be in default on any prior educational loan.
  - b. You must not owe a refund on a Federal Pell Grant, or Federal Supplemental Educational Opportunity Grant due to repayment.
- 3. Providing additional documentation which may include federal tax transcripts, if required for receiving financial assistance.
- 4. Complying with the provisions of any promissory note and of all other agreements you sign.
- 5. Completing the registration process each term by the slated time period given by the Assistant Director's office, in order to ensure availability of all student aid funds you have been awarded. **Note: Some aid programs are limited and may be subject to cancellation if your registration process is not completed by the designated period.**
- 6. Using student financial aid proceeds solely for direct educational costs and related living expenses.
- 7. Knowing the financial implications of dropping a course or Health will have on your student financial aid. Always check with the financial aid office before dropping or withdrawing.
- 8. Making satisfactory academic progress (SAP) towards completing a degree program in a timely manner. Minimum requirements must be met in order to participate in the federal aid programs. Appeals of the SAP decision can be made, and it is the student's responsibility to secure and provide a full written appeal to the financial aid office. Appeals made without supporting documents will not be considered.
- 9. Understanding that federal financial aid recipients who complete a term receiving all F-grades as a result of non-attendance will be subject to the Title IV withdrawal policy and have their aid adjusted according to federal regulations. Students will be required to repay part or all the federal/state student aid funds received. Any student withdrawing, graduating or leaving for longer than a 45 day break, who has borrowed under the Federal Direct loan program will be required to complete a Federal Direct Loan Exit Interview.
- 10. Reporting and submitting a copy of your outside scholarship information to the financial aid office.
- 11. Keeping your local and permanent home and email addresses and phone numbers current with the Assistant Director's office and the financial aid office.
- 12. Regularly accessing and reading notifications in your VUMC.org student email account.

## DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM

#### **Program Description**

The VUMC Diagnostic Medical Sonography Program is an 18-month-long certificate program in general sonography. The curriculum offers an integrated didactic and clinical education plan which provides students with the resources necessary to begin a career as a credentialed entry-level sonographer. The small class size provides an excellent learning environment with a high faculty to student ratio. Students are required to participate in all class and clinical sessions. Sonography is an operator- dependent imaging specialty and the program provides ample hands-on opportunities in which students will prepare for a career in the field. The program was established in the VUMC Department of Radiology in 2002 after operating for a brief period of time in the 1980s.

## Certification/Credentialing

Students receive a certificate (see program accreditation below), which qualifies the DMS Program graduates to apply for and take the following certification exams for the American Registry of Diagnostic Medical Sonography (ARDMS):

- Sonographic Principles and Instrumentation
- Abdomen Sonography
- Obstetrics & Gynecology Sonography

#### **Program Costs**

Application Fee \$50 + Tuition \$14,000 + Books \$984 Fees \$3,287 = Total Cost \$18,231

## **Program Length**

The program consists of 107.5 quarter credit hours/72 weeks, typically beginning in mid- to late- September and ending 18 months later in mid- to late-March.

#### **Program Delivery Method**

The DMS Program is a blended curriculum, in that some courses, assessments, and assignments are delivered using one or all components of an online Learning Management System (LMS).

## **Program Mission & Goals**

## Mission

The VUMC Diagnostic Medical Sonography Program is dedicated to providing quality education for its students in order to promote excellence in the art and science of sonography. Guided by the Mission of Vanderbilt University Medical Center, the DMS Program strives to provide academic and clinical experiences that produce competent and compassionate sonographers with a commitment to the performance of quality imaging and the pursuit of lifelong learning.

#### Philosophy

It is the philosophy of the Program that all patients have the right to receive competent and compassionate care to promote overall health and wellness. Diagnostic medical sonographers must possess the skills and knowledge necessary to think critically during the delivery of such care while performing sonographic procedures. The Program is committed to providing the healthcare system with sonographers who are competent and compassionate critical thinkers with a goal of continuously learning throughout their career.

## Goal & Objectives

The sonography profession requires the ability to provide diagnostic sonographic imaging utilizing critical thinking skills to make judgments in the process. Sonographers are professionals who must possess high level skills in diagnostic sonographic techniques under the guidance of a licensed physician. A sonographer is responsible for providing excellent patient care and gathering adequate data necessary for diagnoses to be determined.

The VUMC Diagnostic Medical Sonography Program's goal is to prepare competent entry-level general sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. Graduates of the VUMC Diagnostic Medical Sonography Program will be able to perform, at minimum, the following objectives:

## Cognitive

- o Obtain, review and integrate pertinent patient data to facilitate optimum diagnostic results.
- Demonstrate critical thinking skills during the performance of sonographic procedures to provide optimum diagnostic services.

#### Psychomotor

- Perform sonographic procedures appropriately and accurately recording all anatomic and physiologic information for interpretation by a physician.
- Document and present complete and accurate sonographic findings to the interpreting physician in order to facilitate patient diagnosis.
- Maintain optimal function of the sonographic equipment.
- Assist physician during invasive ultrasound guided procedures.

#### Affective

- Demonstrate effective communication skills with patients and all members of the healthcare team.
- Provide compassionate patient care and education to promote overall well-being.
- o Act in a professional manner within recognized ethical and legal standards.
- o Demonstrate a commitment to lifelong learning.

Upon graduation, students will have demonstrated and completed all clinical and academic competencies required for eligibility to take the American Registry of Diagnostic Medical Sonography (ARDMS) certification exams in the area(s) of study. Complete information about the program curriculum may be found on its website, at <a href="https://www.vumc.org/dms">https://www.vumc.org/dms</a>

#### **Programmatic Accreditation/Approvals**

The Diagnostic Medical Sonography Program is programmatically accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). This accreditation is granted only after recommendation by the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC- DMS) based on a programmatic review and site visit. Initial accreditation for a general sonography concentration was achieved in 2004. Continuing accreditation for the program was achieved in 2007, 2013 and 2019.

Recognition by CAAHEP qualified the Program's graduates for eligibility to apply for and take the following certification exams for the American Registry of Diagnostic Medical Sonography (ARDMS):

- Sonographic Principles and Instrumentation
- Abdomen Sonography
- Obstetrics & Gynecology Sonography

#### CAAHEP:

Commission on Accreditation of Allied Health Education Programs

9355- 113th St. N, #7709

Seminole, FL 33775

P: 727-210-2350 F: 727-210-2354

www.caahep.org

#### JRC-DMS:

Joint Review Committee on Education in Diagnostic Medical Sonography 6021 University Boulevard, Suite 500

Ellicott City, MD 21043

443-973-3251 F: 866-738-3444

www.jrcdms.org

## Program Academic Calendar

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Diagnostic Medical Sonography			
2022-2023 Academic Calendar			
Fourth Rotation (Class of 2023) June 27, 2022 - September 16, 2022			
Independence Day Holiday	July 4, 2022		
Labor Day Holiday	September 5, 2022		
Program Orientation (Class of 2024)	September 19-23, 2022		
Fifth Rotation (Class of 2023)	September 19, 2022 – December 16, 2022		
First Rotation (Class of 2024)	September 26, 2022 – December 16, 2022		
Thanksgiving Break	November 21-25, 2022		
Winter Break December 19, 2022 – December 30, 2022			
Sixth Rotation (Class of 2023)	January 2, 2023 - March 24, 2023		
Second Rotation (Class of 2024)	January 2, 2023 - March 24, 2023		
Graduation	Week of March 27, 2023 (Date/Time TBD)		
Third Rotation (Class of 2024)	March 27, 2023 – June 16, 2023		
Memorial Day Holiday	May 29, 2023		
Summer Break	June 19-23, 2023		

## Program Faculty/Staff

Arthur C. Fleischer, MD, Medical Director (Full-time)

Residency and Fellowship, Diagnostic Radiology, 1980, Vanderbilt University School of Medicine, Nashville, TN; MD, 1976, Medical College of Georgia, Augusta, GA; BS, Biology, Emory University, Augusta, GA

Jill D. Webb, BS, RDMS, RVT, Program Director (Full-time)

Bachelor of Science, Health Arts, 2001, University of St. Francis, Joliet, IL; Certificate, Radiologic Technology, 1988, Floyd Medical Center School of Radiologic Technology, Rome, GA

Andrea L. Taylor, BS, RDMS, RVT, Clinical Coordinator (Full-time)

Bachelor of Science, Diagnostic Medical Sonography, 2021, Oregon Institute of Technology, Klamath Falls, OR; Associates Degree, Diagnostic Medical Sonography, 2012, Mountain State University, Beckley, WV

Mary Ann Keenan, DMP, Instructor (Full-time)

Registered State Inspector,TN; Qualified Radiation Expert, KY/AL; Diagnostic Medical Physics, American Board of Radiology; Doctorate, Medical Physics, 2011, Vanderbilt University, Nashville, TN; MS, Medical Physics, 2007, Vanderbilt University, Nashville, TN; BS, Chemistry, 2003, Athens State University

#### **Program Advisory Board**

The DMS Program utilizes an Advisory Committee of educators and professionals who represent all of the communities of interest related to program outcomes. Each cohort of students selects a classmate as the Student Representative to the DMS Program Advisory Committee. The Committee is charged with the responsibility of meeting at least annually, in order to assist the program and sponsor personnel in formulating and periodically revising appropriate goals and learning domains, monitoring needs and expectations, and ensuring program responsiveness to change.

Member Name	Credentials	Title
Jill Webb	BS, RT, RDMS, RVT	Program Director
Andrea Taylor	BS, RDMS, RVT	Clinical Coordinator
Arthur Fleischer	MD	Professor/Medical Director
Rochelle Andreotti	MD	Professor
Glynis Sacks	MD	Professor
Karen Tisdale	BS, RDMS	Supervisor
Rachel Campbell	RDMS	Senior Sonographer
Stephanie Smith	RDMS	Senior Sonographer
Ebony McHaskell	BS	Director, CPiAH
Kristen Smith		Associate Program Manager, CPiAH
Donna Rosenstiel	MS	Admin Dir, OHSE
Jordan Sims	MEd	Faculty/Instructional Design Manager, CPiAH
TBD	BS	Student, VUMC DMS 2024 Cohort
Beatriz Solorzano		Student, VUMC DMS 2023 Cohort
Michelle Lynch	MA	Business Office Director
Kelly Barrett	RT, RDMS	Staff Sonographer/ Graduate VUMC
D'Arcy Craig	RDMS, RVT	Ultrasonographer II
Tracy Wrye	RDMS	Sonographer
Kevin Gregory		President/Owner
Tamra Roberts	CST, CSFA, CDEI	Director of Distance Education

#### **Admissions**

Candidates for admission must satisfy each of the following criteria by submission of official transcripts:

- 1. All applicants must possess a high school diploma, a high school diploma equivalency, a current Tennessee license in the field for which the training is intended, or postsecondary credit in a degree program.
- 2. Post-secondary education which, at minimum, meets one (1) of the following, with a cumulative GPA of no less than 2.75\*:
  - A Bachelor's or an Associate's Degree (Applied Associate's is also acceptable) from an accredited allied health program in direct patient care and possess the recognized credential in the healthcare specialty\*
  - Bachelor Degree from an accredited college or university

- Demonstrate eligibility for the Bachelor's Degree upon completion of the VUMC Diagnostic Medical Sonography Program curriculum from the following Affiliate Institutions (this option requires written recommendation from the affiliate institution's faculty advisor).
  - Middle Tennessee State University
- 3. Six (6) pre-requisite courses\* at an accredited post-secondary institution with a grade of 'C' or better:
  - Algebra or College Math equivalent
  - General Physics (Radiographic Physics will be accepted)
  - Minimum of 2 semesters of Biological Sciences, including one semester of Human Anatomy and Physiology
  - Medical Terminology
  - English Composition or Speech (must be completed at a college or university within the United States)

\*Individuals may submit an application prior to degree or pre-requisite coursework completion. As part of the selection process, applicants must be prepared to demonstrate evidence that all admission criteria can be satisfied prior to an offer of admission.

## **Physical Activity Standards**

- Diagnostic medical sonographers must be able to perform a variety of physical movements in order to care
  for and manipulate patients and heavy equipment. Any student admitted to the Program must
  acknowledge his/her ability to carry out the following technical standards with or without reasonable
  accommodations:
- Push, pull or lift 50 pounds routinely and more than 50 pounds occasionally
- Bend, stoop, kneel, squat or sit and reach routinely
- Adequately control imaging transducer and manipulate equipment weighing up to 500 pounds on wheels
- Adequately visualize and perceive image data on computer and video monitors to acquire and interpret sonographic image data with color distinction
- Sufficiently distinguish fine audible differences including Doppler signals, patient and co- worker communication and patient conditions such as respiration or movements
- Fluently demonstrate English language skills to provide optimum communication with patient and healthcare team members
- Follow verbal and written instructions to provide optimum care for patients

## Intellectual and Emotional Standards

Diagnostic medical sonographers must also possess intellectual and emotional qualities that permit adequate care for patients and response to unexpected or emergent situations. Any student admitted into the program must acknowledge his/her ability to demonstrate the following qualities with or without reasonable accommodations:

- Problem-solve and interpret data in both routine and emergent situations
- Empathy
- Emotional stability and maturity
- Courtesy and compassion to patients and their families, as well as co-workers
- Adaptability and flexibility to clinical or didactic schedule changes
- Follow protocols and organize sonographic examination data accurately to facilitate patient diagnosis
- Maintain patient confidentiality

#### **Application Procedures**

All applications will be submitted online. The link to the application can be found on the DMS website during the application window. Applications are accepted by the Allied Health Programs Office between January 1 and March 31 for admission each academic year. Application documentation includes:

- Submission of application and non-refundable deposit
- Submission of official transcripts or translation of international transcripts into US Equivalence (not just the English language) for all post-secondary coursework
- Submission of a current resume
- Three (3) references (web-based survey used)
- Personal essay regarding: 1) the current state of sonography, 2) the future of sonography and 3) the applicant's contribution to the field of sonography

All above documents will be attached to the electronic submission. Applicants are responsible for sending the survey link to the chosen references. This link can be found on the Admissions page of the website. Official transcripts may be sent AFTER the application is submitted, but MUST be received by the CPIAH Administration Office by the application deadline. Instructions for submitting these documents can be found on the DMS website and within the application. *Incomplete applicant documentation will not be considered for admission.* 

Applicants with pre-requisite course work from an institution outside of the United States MUST have an official, detailed translation of their coursework into the US equivalency (see CPiAH institutional policy above). International applicants who do not provide official documentation of acceptable US course and degree equivalency will not be considered during the application process.

Any application submitted after March 31 is processed only on an as-available basis. Application reviews and interviews are scheduled with top qualified applicants each year after the deadline listed.

#### Interview

Top qualified applicants are granted a phone interview with the Program Director (under the direction of the Admissions Committee). After completion of the application reviews and phone interviews, select candidates are offered a virtual or on-site interview with Faculty and Staff from the Admissions Committee. The method of the second interviews is dependent on public health concerns and the visitor policy at the Medical Center.

#### Student Selection and Acceptance

The following criteria are considered in the evaluation of all applicants:

- Overall GPA
- Completed pre-requisite coursework GPA
- Reference scores
- Interviews
- Professional Potential (comprehensive rating of the applicant's overall preparedness)

After all interviews are conducted, the scores are calculated and a report generated. The Admissions Committee reserves the right to request additional interviews before this report is generated. The top five (5) applicants are offered admission status and the next five (5) applicants are offered an alternate position for the same year. **The applicant pool is reviewed annually with no waiting list or rollover applications to the following year.** 

## **Academic Program and Assessment**

Curriculum Integration

The curriculum for the VUMC DMS Program effectively integrates content from both the didactic and clinical education arenas. Students are provided classroom and laboratory instruction prior to the assignment of clinical requirements on the same material. Details that outline this integration are provided in a document titled Curriculum Threads, located in the DMS Program Handbook.

Curriculum Sequence/Program Delivery

## **Didactic Education Plan**

COURSE NUMBER	COURSE NAME	LECTURE	LAB	PRACTICUM/ CLINICAL	TOTAL
Program Orientation (1 week September)		N/A			
FIRST ROTATION (11 weeks September - December)					
DMS 100	Foundations of Ultrasound and Healthcare (2 weeks Distance Ed)	2.2			2.0
DMS 105	Sonographic Patient Care (5 weeks)	2.0			2.0
DMS 110	Cross-Sectional Anatomy	2.2			2.0
DMSA 101	Abdominal Sonography Techniques I	4.4			4.0
DMSG 101	Gynecological Sonography Techniques I	3.3			3.0
DMSC 101	Clinical Practicum I (6 weeks)			2.4	2.0
DMSL 101	Clinical Lab I		3.3		3.0
SECOND ROTA	ATION (12 weeks January - March)				
DMS 100	Foundations of Ultrasound and Healthcare (2 weeks Distance Ed)				
DMSO 201	Obstetrical Sonography Techniques I	3.6			3.5
DMSP 201	Basic Physics and Instrumentation	4.8			4.5
DMS 200	Pathophysiology as Related to Sonography	1.2			1.0
DMSC 202	Clinical Practicum II			6.4	6.0
DMSL 202	Clinical Lab II			3.6	3.5
THIRD ROTAT	ION (12 weeks March - June)				
DMS 100	Foundations of Ultrasound and Healthcare (2 weeks Distance Ed)				
DMSA 302	Abdominal Sonography Techniques II	3.6			3.5
DMSG 302	Gynecological Sonography Techniques II	2.4			2.0
DMSP 302	Advanced Physics and Instrumentation	2.4			2.0
DMSC 303	Clinical Practicum III			9.6	9.5
DMSL 303	Clinical Lab III			2.4	2.0
FOURTH ROTA	ATION (12 weeks July - September)				
DMS 100	Foundations of Ultrasound and Healthcare (2 weeks Distance Ed)				
DMSO 402	Obstetrical Sonography Techniques II	3.6			3.5
DMSA 401	Superficial Structure Sonography Techniques	2.4			2.0
DMSA 403	Advanced Abdominal Sonography Techniques	2.4			2.0
DMS 400	Medical Ethics and Law	1.2			1.0
DMSC 404	Clinical Practicum IV			9.6	9.5
DMSL 404	Clinical Lab IV	2.4 2.		2.0	
FIFTH ROTATI	ON (12 weeks September - December)				

DMS 100	Foundations of Ultrasound and Healthcare (2 weeks Distance Ed)				
DMS 500	Certification Preparation (Distance Education)	2.4 2.0			
DMSO 503	Advanced Ob/Gyn Sonography Techniques	2.4			2.0
DMSV 501	Introduction to Basic Vascular Sonography	1.2			1.0
DMSC 505	Clinical Practicum V			11.2	11.0
SIXTH ROTAT	SIXTH ROTATION (12 weeks December - March)				
DMS 100	Foundations of Ultrasound and Healthcare (1 weeks Distance Ed)				
DMS 600	Case Study Review	2.4			2.0
DMS 610	Registry Reviews	2.4			2.0
DMSV 602	Basic Vascular Sonography Lab		1.2		1.0
DMSC 606	Clinical Practicum VI			11.2	11.0
	TOTALS	52.5	4.5	58.8	107.5

Unless noted differently, courses are delivered in the classroom, lab or clinical setting.

## **Course Descriptions**

ROTATION I				
	This course is designed to develop the student's understanding of the history of medical			
	sonography and its role in the healthcare system while emphasizing the importance of a			
	commitment to the profession and its growth by becoming a lifelong learner. Students will be			
Foundations of	instructed in the identification of sonographers' roles and responsibilities, the delivery of patient			
Ultrasound and	care utilizing the Mission of Vanderbilt University Medical Center, the agencies and professional			
Healthcare (2 weeks	societies in medical sonography, the exercise of critical thinking and the value of continuing			
each Rotation-Distance	education. Career planning and advising will also be introduced to assist the students in the			
Education)	transition from student to sonographer.			
	This course is designed to provide instruction of patient care techniques for all clinical settings.			
	Course content is delivered to assist the student in utilizing safe practices while caring for the			
	patient in routine, critical and emergent situations. Students will be introduced to patient care			
	equipment used in the healthcare facility and techniques for maintaining isolation or sterile			
Sonographic Patient Care	environments. Communication techniques, both verbal and written, will be demonstrated and			
(5 weeks)	practiced throughout the course delivery.			
	This course is designed to introduce the sonography student to cross-sectional anatomy			
	through the use of sonography and other imaging modality exams. Instruction will utilize actual			
	cases to demonstrate image orientation, anatomical relationships, and correlation of			
	data/findings between imaging modalities. An emphasis will be placed on the critical thinking			
Cross-Sectional Anatomy	skills necessary to facilitate diagnosis for the sonography patient.			
	This course is designed to provide the student with the techniques and protocols required to			
	perform sonographic examinations of the major organs and great vessels of the upper abdomen.			
	Sonographic examinations include imaging techniques and evaluation of normal anatomy and its			
Abdominal Sonography	appearance, the interpretation of pertinent lab values along with clinical indications and the			
Techniques I	transmission of all pertinent data to the interpreting physician to facilitate diagnosis.			
	This course is designed to provide students with the techniques and protocols required to			
	perform transabdominal and transvaginal sonographic examinations of the female pelvis organs.			
	Sonographic examinations include imaging techniques and evaluation of normal anatomy and its			
Gynecological	appearance, the interpretation of pertinent lab values along with clinical indications and the			
Sonography Techniques I	transmission of all pertinent data to the interpreting physician to facilitate diagnosis.			
	This clinical course is designed to introduce the student to the ultrasound department and its			
	protocol and procedures. The student will perform basic patient care competencies that promote			
	preparation of the patient and the exam room, as well care of the department equipment and			
Clinical Practicum I (6	utilization of protocol. Students will be observing a variety of sonographic exams and procedures			
weeks)	in the assigned clinical area			

	This lab is designed to provide the student with direct supervision and instruction for correlating		
	didactic coursework to the clinical setting. The student will be instructed through role playing,		
	supervised scanning and demonstration techniques. The use of abbreviations in the medical		
Clinical Lab I	setting will be exercised and evaluated.		
	ROTATION II		
	This course is designed to provide the student with the techniques and protocols required to		
	perform sonographic examinations of the gravid patient. Sonographic examinations include		
	imaging techniques and evaluation of the normal pregnancy. This evaluation includes the		
Obstetrical Sonography	sonographic anatomy, interpretation of pertinent lab values along with clinical indications and the		
Techniques I	transmission of all pertinent data to the interpreting physician to facilitate diagnosis.		
	This course is designed to provide the student with the fundamental principles of ultrasound		
Basic Physics and	physics and instrumentation. The student will develop an understanding of the function of the		
Instrumentation	ultrasound equipment as well as imaging techniques		
	This course is designed to introduce the sonography student to the mechanisms of disease		
Pathophysiology as	processes. The student will learn to identify the etiology and pathogenesis of common		
Related to Sonography	pathological conditions as they relate to sonographic imaging.		
	This clinical course is designed to provide the student with the opportunity to begin scanning in		
	the clinical setting and demonstrating competency in the performance of exam segments. The		
	student will begin to develop a proficiency of imaging techniques in a progressive manner for the		
	abdomen and pelvic examinations. Direct clinical supervision and instruction will provide		
Clinical Practicum II	guidance for the student to acquire the skills required for quality sonographic imaging.		
	This lab is designed to further develop the student's skill for abdominal and pelvis ultrasound		
	examinations with direct supervision and instruction. The student will also be introduced to		
	obstetrical sonographic techniques in a controlled and closely supervised environment through		
Clinical Lab II	the OB Volunteer Program.		
	ROTATION III		
	This course is designed to expand the student's knowledge of normal abdominal sonography		
	technique and appearance in order to evaluate pathological conditions with ultrasound.		
Abdominal Sonography	Correlation of pertinent data and patient history to sonographic appearance is developed to		
Techniques II	facilitate diagnosis.		
	This course is designed to expand the student's knowledge of normal gynecological sonography		
Gynecological	techniques and appearance in order to evaluate pathological conditions with sonography.		
Sonography Techniques	Correlation of pertinent data and patient history to sonographic appearance is developed to		
II	facilitate diagnosis. Both didactic and case discussion will be utilized.		
	This course is designed to provide the student with the knowledge to optimally utilize Doppler		
	techniques in the evaluation of blood flow. Instruction includes vascular hemodynamics and the		
	application of the Doppler Effect to evaluate for blood flow abnormalities. The student will gain		
	an understanding of the artifacts associated with ultrasound imaging. Methods of quality		
<b>Advanced Physics and</b>	assurance and the bioeffects of ultrasound are presented to develop equipment maintenance		
Instrumentaiton	knowledge.		
	This clinical course allows the student to continue progressive skill development for the		
	abdominal, gynecological and obstetrical sonographic examination. The student will begin		
	demonstrating the critical thinking skills required to adapt each exam and its findings to		
Clinical Practicum III	department protocol.		
	This lab is designed to provide the student with the direct supervision and instruction to develop		
	the skills needed for performing complete abdominal, gynecological and obstetrical examinations,		
	as well as an introduction to advanced ultrasound examinations including assisting physicians		
with ultrasound guided procedures. The student will also receive instruction for obstetrical			
	sonographic techniques in a controlled and closely supervised environment through the OB		
Clinical Lab III	Volunteer Program.		
	ROTATION IV		
Obstetrical Sonography	This course is designed to expand the student's knowledge of normal obstetrical sonography		
Techniques II	techniques and appearance in order to evaluate pathological conditions with sonography.		
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facilitate diagnosis.  This course is designed to provide the student with the techniques and protocols required to perform sonographic examinations of superficial structures, including the musculoskeletal system, breast, neck, male pelvis and non-cardiac chest.  Sonographic examinations include imaging techniques and evaluation of the normal and pathological appearance of these structures. This evaluation includes the sonographic anatomy, interpretation of pertinent lab values along with clinical indications and the transmission of all pertinent data to the interpreting physician to facilitate diagnosis.  This course is designed to provide the techniques and protocols for advanced imaging techniques of the abdomen, including the retroperitoneum, abdominal vascular evaluation, GI tract and ultrasound guided procedures. Sonographic examination includes the evaluation of anatomy and its sonographic appearance, correlation of pertinent data to the sonographic findings and the transmission of all data to the interpreting physician to facilitate diagnosis.  This course is designed to provide the student opportunities to learn issues regarding the ethical and legal standards of providing care for patients. The issues include topics such as patient confidentiality, patient's bill of rights, medical malpractice and the importance of holding and maintaining professional credentials. Emphasis will be placed on the responsibility and accountability of the Diagnostic Medical Sonographer.  During this clinical course the student will perform clinical demonstration of competency in the performance of complete abdominal and gynecological sonographic examinations under the supervision of qualified sonographers. The skills required to perform complete obstetrical sonographic examinations, as well as an introduction to advanced ultrasound examinations including assisting physicians with ultrasound guided procedures. The student will also receive instruction for obstetrical sonographic techniques in a controlled and closely super		Correlation of partinant data and nations history to concern his appearance is dayalaned to
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This course is designed to provide advanced imaging techniques and protocols for the sonographic evaluation of the gravid and non-gravid female pelvis, as well as reinforce the basic techniques of previous courses. Students will be introduced to Doppler evaluation and imaging techniques for the assessment of fetal well-being, genetic evaluations, advanced fetal echocardiography techniques, the role of sonography in the treatment of infertility, the role of the sonographer during invasive sonographic procedures and the latest advances in Ob/Gyn imaging. Course content includes the correlation of pertinent data to the sonographic findings		
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imaging. Course content includes the correlation of pertinent data to the sonographic findings		
<b>Advanced Ob/Gyn</b> and the transmission of all data to the interpreting physician in order to facilitate diagnosis and		
	=	and the transmission of all data to the interpreting physician in order to facilitate diagnosis and
Sonography Techniques exposure to literature review in the advancement of sonographic imaging.	Sonography Techniques	
This course is designed to introduce the student to basic vascular anatomy and hemodynamics.		
Instruction will include indications, sonographic anatomy, techniques and protocol for the		
Introduction to Basic performance of peripheral vascular and extracranial vascular exams to prepare the students for		
Vascular Sonography lab sessions in the following Rotation.	Vascular Sonography	
During this clinical course the student will perform clinical demonstration of competency in the		
Clinical Practicum V performance of complete abdominal, gynecological and obstetrical sonographic examinations	Clinical Dracticum V	nertormance of complete abdominal gynecological and obstetrical sonographic examinations

	under the supervision of qualified sonographers. The student will begin to demonstrate the skills required to assist physicians during invasive ultrasound guided procedures while under the direct supervision of the physician and qualified sonographer. The student will demonstrate an increased competence in problem-solving and correlation of all clinical data for the interpreting physician to facilitate diagnosis.
	ROTATION VI
Case Study Review	This review course will allow the student the opportunity to analyze and critique sonographic examinations, including clinical data, pertinent diagnostic imaging results, sonographic results, image quality and the correlation of all patient data. The emphasis of this course will be on the critical thinking skills of a Diagnostic Medical Sonographer.
Registry Reviews	This course is designed to facilitate the student's identification of content areas that need reinforcement prior to taking the ARDMS (American Registry of Diagnostic Medical Sonography) National Registry Exams. The course will provide students with discussions to facilitate content review and self-assessment, along with regular quizzes and mock board examinations for preparation in obtaining the Registered Diagnostic Medical Sonographer credential in Abdomen and Obstetrics/Gynecology.
Basic Vascular Sonography Lab	This course is designed to introduce the student to basic vascular scanning and hemodynamics assessment. Instruction will include sonographic anatomy, techniques and protocol for the performance of peripheral vascular and extracranial vascular exams. Lab sessions will be provided to demonstrate vascular techniques and an opportunity for the student to practice basic techniques.
Clinical Practicum VI	This final clinical course is designed to allow the student to demonstrate competence and proficiency in the performance of all sonographic examinations included in the areas of study. Close clinical supervision and instruction provides the student with the opportunity to be prepared for entrance into the field of sonography as a competent and compassionate professional.

# **Student Assessment and Grading**

Letter grades are assigned and 'quarter credit hours' recorded on final transcripts. Overall grade point average is calculated using the following scale:

Scale	Grade	Grade GPA			
95-100%	A	A 4.0			
90-94%	A-	3.5			
85-89%	В	3.0			
80-84%	B-	2.5			
75-79%	С				
<75%	F - FAILURE	F - FAILURE 0			
Р	Pass - Any course with a "P" grade is not calculated into the grade point average.				
F	Fail - Any course with an "F" grade is not calculat repeated and passed to graduate.	Fail - Any course with an "F" grade is not calculated into the grade point average. However, the course must be repeated and passed to graduate.			
1	Incomplete - May be used at the discretion of the instructor in those cases in which the student is not able to complete work in the normal time. In those instances, the student and instructor develop a written plan for an extension to provide work by a specific date that falls within the period of time specified by the relevant program's requirements (but in no circumstances greater than one month). An "I" that is not replaced by a letter grade within the period of time specified by the relevant program's requirements, due to unsatisfactory completion of the student's plan, will be changed to an F after the period specified by the program (a period not to exceed one month). Any course with an "I" grade is not calculated into the grade point average. Once a grade is assigned to the course (when conditions are met that allow for the removal of the "I" and assignment of a final grade), that grade will factor into the student's GPA.				

W±	Withdrawal – Utilized when a student leaves the course due to an approved leave-of-absence or withdraws from the school prior to the scheduled completion of a course. Any course with a "W" grade is not calculated into the grade point average.
R	Repeat - Some programs allow students to repeat courses. In those programs, for any course that is repeated, a Repeat will be provided as the grade for the first attempt at the course. Any course with an "R" grade is not calculated into the grade point average. However, courses will be considered hours / credit hours attempted for the purpose of determining maximum time frame. Please refer to each program's student handbook for information about whether students are allowed to repeat courses in any given program.

Each course syllabus clearly delineates how final grades are calculated. Students who do not complete required work or hours in a course will be assigned a failing grade for the course.

#### **Student Clinical Assessment**

The DMS Program Clinical Education Plan guides student clinical assessment, and is divided into the following two (2) sections of required clinical performance evaluations:

# 1. Technical Competencies

These are unique skill sets, outlined in the DMS Program Technical Competencies Plan, which appears in the DMS Program Handbook. The technical competencies provide a pathway for progressive skill development from basic patient care and portions of abdominal, gynecological, and obstetrical exams to complete exams and advanced imaging skills. Each technical competency must be practiced multiple times during the student's time in the program, with observation and rating by credentialed clinical staff (preceptors). Variable levels of assistance by the preceptor are permitted, but students must meet the minimum requirements of competence, as described in the Technical Evaluation Criteria table, which also appears in the Program Handbook. Specific deadlines for successfully completing the required number of technical competencies are specified in each clinical syllabus.

#### 2. Technical Competency Challenges

In addition to achieving the required technical competencies as described above, the student is required to pass Technical Competency Challenges during each clinical practicum in order to document progressive entry level skill development and complete satisfactory clinical requirements. Technical Competency Challenge requirements are described in the DMS Program Handbook. Technical Competency Challenges may be performed only after 70% of assigned Technical Competencies are satisfactorily completed. Technical Competency Challenges may only be completed with designated, appropriately credentialed clinical staff (Clinical Instructors). Minimal levels of assistance are permitted (as described in the Technical Evaluation Criteria table).

Students who are not successful in completing a Technical Competency Challenge must complete additional repetitions of the competency and consult with the clinical coordinator before he or she may repeat the Technical Competency Challenge. Two unsuccessful attempts at the same Technical Competency Challenge will result in the student being placed on SAP Warning, and the implementation of a written plan of action required for the student to return to satisfactory academic status. Timely performance of Technical Competency Challenges is required, and failure to meet Challenges by the dates specified in each clinical syllabus will affect Clinical course grades.

Entry level skills and competence are determined in the last Rotation of clinical coursework through the Final Competency Assessment with designated, appropriately credentialed Clinical Instructors.

# **Satisfactory Academic Progress Policy (SAP)**

A student is considered to be maintaining satisfactory academic progress if he/she 1) maintains a 75% academic average in all didactic and clinical courses throughout each curriculum Rotation (12 weeks); 2) maintains a satisfactory performance pace (completion of hours required) within the curriculum course sequence and clinical competency plan, per the course syllabi; and 3) complies with all program policies found in this catalog and in the Program Handbook. Performance will be monitored in an on-going manner throughout activities and a grade for each course assessed at the end of each Rotation.

# **Code of Conduct and Ethics**

In addition to the VUMC Code of Conduct, students in the Diagnostic Medical Sonography Program are bound by standards of conduct specific to their profession. Adherence to the VUMC Code of Conduct and the SDMS Professional Code of Ethics is required of students at all times.

# SDMS Professional Code of Ethics

The Society of Diagnostic Medical Sonography (SDMS) was founded in 1970 to promote, advance, and educate its members and the medical community in the science of diagnostic medical sonography. The SDMS is a network of over 28,000 sonographers practicing in all specialty areas, sonography students, educators, physicians, nurses, and other healthcare providers who practice or have an interest in diagnostic medical sonography.

Code of Ethics for the Profession of Diagnostic Medical Sonography Re-approved by SDMS Board of Directors, February 18, 2017.

#### **PREAMBLE**

The goal of this code of ethics is to promote excellence in patient care by fostering responsibility and accountability among diagnostic medical sonographers. In so doing, the integrity of the profession of diagnostic medical sonography will be maintained.

#### **OBJECTIVES**

- 1. To create and encourage an environment where professional and ethical issues are discussed and addressed.
- 2. To help the individual diagnostic medical sonographer identify ethical issues.
- 3. To provide guidelines for individual diagnostic medical sonographers regarding ethical behavior.

#### PRINCIPLES:

Principle I: In order to promote patient well-being, the diagnostic medical sonographer shall:

- A. Provide information to the patient about the purpose of the sonography procedure and respond to the patient's questions and concerns.
- B. Respect the patient's autonomy and the right to refuse the procedure.
- C. Recognize the patient's individuality and provide care in a non-judgmental and non- discriminatory manner.
- D. Promote the privacy, dignity and comfort of the patient by thoroughly explaining the examination, patient positioning and implementing proper draping techniques.
- E. Maintain confidentiality of acquired patient information, and follow national patient privacy regulations as required by the "Health Insurance Portability and Accountability Act of 1996 (HIPAA)."
- F. Promote patient safety during the provision of sonography procedures and while the patient is in the care of the diagnostic medical sonographer.

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Principle II: To promote the highest level of competent practice, diagnostic medical sonographers shall:

- A. Obtain appropriate diagnostic medical sonography education and clinical skills to ensure competence.
- B. Achieve and maintain specialty specific sonography credentials. Sonography credentials must be awarded by a national sonography credentialing body that is accredited by a national organization which accredits credentialing bodies, i.e., the National Commission for Certifying Agencies (NCCA); <a href="http://www.noca.org/ncca/ncca.htm">http://www.noca.org/ncca/ncca.htm</a> or the International Organization for Standardization (ISO); <a href="http://www.iso.org/iso/en/ISOOnline.frontpage">http://www.iso.org/iso/en/ISOOnline.frontpage</a>.
- C. Uphold professional standards by adhering to defined technical protocols and diagnostic criteria established by peer review.
- D. Acknowledge personal and legal limits, practice within the defined scope of practice, and assume responsibility for his/her actions.
- E. Maintain continued competence through lifelong learning, which includes continuing education, acquisition of specialty specific credentials and recredentialing.
- F. Perform medically indicated ultrasound studies, ordered by a licensed physician or their designated health care provider.
- G. Protect patients and/or study subjects by adhering to oversight and approval of investigational procedures, including documented informed consent.
- H. Refrain from the use of any substances that may alter judgment or skill and thereby compromise patient care.
- I. Be accountable and participate in regular assessment and review of equipment, procedures, protocols, and results. This can be accomplished through facility accreditation.

Principle III: To promote professional integrity and public trust, the diagnostic medical sonographer shall:

- A. Be truthful and promote appropriate communications with patients and colleagues.
- B. Respect the rights of patients, colleagues and yourself.
- C. Avoid conflicts of interest and situations that exploit others or misrepresent information.
- D. Accurately represent his/her experience, education and credentialing.
- E. Promote equitable access to care.
- F. Collaborate with professional colleagues to create an environment that promotes communication and respect.
- G. Communicate and collaborate with others to promote ethical practice. H.
- H. Engage in ethical billing practices.
- I. Engage only in legal arrangements in the medical industry.
- J. Report deviations from the Code of Ethics to institutional leadership for internal sanctions, local intervention and/or criminal prosecution. The Code of Ethics can serve as a valuable tool to develop local policies and procedures.

Source: © Copyright 2022. Society of Diagnostic Medical Sonography, Plano, Texas.

https://www.sdms.org/about/who-we-are/code-of-ethics

#### **Graduation/Completion Requirements**

Students of the VUMC Diagnostic Medical Sonography Program are required to do the following in order to graduate with a Certificate in General Sonography:

- 1. Complete all didactic and clinical coursework in the Curriculum Plan with a grade of "C" or better as outlined in the Satisfactory Academic Progress Policy.
- 2. Complete all assigned technical competencies as outlined in the Clinical Competency Plan.
- 3. Demonstrate competency in technical ability by successfully completing all assigned competency challenges as outlined in the Clinical Competency Plan, including the Final Competency Assessment.
- 4. Complete all assigned hours in accordance with the Attendance Policy.
- 5. Satisfactorily complete an original research project and perform a 10-minute presentation for the clinical staff of the VUMC Ultrasound Section. (An opportunity will be available to conduct this research and present it in competition or scientific paper presentation as a group project.)
- 6. Submit documentation for a total of twelve (12) hours of approved professional development activities.

Upon satisfaction of these requirements, each student is required to participate in an Exit Interview with the Program Director prior to the release of a certificate or transcript.

#### **Other Program Policies**

Professional Progression, Career Advising

Each student enrolled in the VUMC DMS Program has access to faculty and staff members for academic and professional advising. The Program Director and/or the Clinical Coordinator are the primary sources for this type of student advising; however, the student may approach other faculty members, clinical instructors or staff of the VUMC Ultrasound and/or Radiology Department. The Student Support Services Manager in the Center for Programs in Allied Health is also available by appointment to assist students as necessary. All official academic advising conducted by program faculty and staff is documented and retained in the student's record.

# Employment Placement for Program Graduates

The DMS Program's accreditor (CAAHEP) requires reporting of outcomes and achievement of designated outcomes pertaining to graduate placement in a related position of employment. The DMS Program assumes that all graduates desire to obtain employment within a relative short time beyond graduation (if a position is not secured prior to graduation). While VUMC does not guarantee employment offers or engage in job searches for students, Program Faculty and Staff can offer assistance and advising related to searching for a position. There are numerous ways the program can assist a self-driven student to secure employment. These include, but are not limited to:

- Notification to students about available positions
- Review and feedback on resume development
- Provide resources for conducting job searches
- Provide references and/or academic verification

Since the DMS Program is required to report information on student employment placement to the accrediting bodies, graduates are asked to provide detailed information regarding employment. Necessary information will be requested at the Exit Interview. If the student has not yet obtained employment, he or she will be expected to provide the information as soon as it becomes available. VUMC will contact graduates regarding employment status in order to fulfill accreditation reporting requirements. Employment information (including changes) is needed by the program for the first 12 calendar months beyond graduation. Compliance with this request is necessary for outcomes documentation and distribution of graduate and employer surveys.

Certification/Credentialing/National Examination/State Licensure

The DMS Program's accreditor (CAAHEP) requires reporting of program outcomes and achievement of designated benchmarks. Graduate credentialing rates are among the numerous outcomes assessed. CAAHEP requires reporting for all eligible specialties. The Program exhausts all efforts to provide students with the information and resources necessary to be successful at professional credentialing exams. The ARDMS has transitioned over the past few years to permit students attending accredited programs the opportunity to apply and take these credentialing exams prior to graduation from the program. While a student may successfully complete the exams prior to graduation, the credential is not released until the Program Director indicates successful completion of the program (see Graduation Requirements).

In order to earn the RDMS (Registered Diagnostic Medical Sonographer) credential, one must successfully complete the Sonography Principles and Instrumentation (SPI) exam AND a corresponding Specialty exam (i.e., Abdomen, Obstetrics/Gynecology, etc.). VUMC is accredited as a General an Abdominal sonography-extended and Obstetrics and gynecology sonography program that deems its students eligible to apply for and earn the RDMS credential in Abdomen and Obstetrics/Gynecology. This credentialing process results in one (1) credential in two (2) specialties. These exams may be taken while still enrolled in the program under the following parameters:

- Sonography Principles and Instrumentation may be taken immediately upon satisfactory completion of the Physics coursework
- Specialty exams (Abdomen and Obstetrics/Gynecology) may be applied for and taken within the last sixty (60) days of the Academic Calendar

While the DMS Program is required by its accreditors to achieve high rates of student credentialing, it is of utmost importance to the student that appropriate credentials are obtained in the search for employment. Few employers hire graduates prior to being credentialed, but they often offer employment with a condition of obtaining certain credentials. The Program Faculty and Staff expect that VUMC students, as leaders in their field, pursue the full credentialing for which they are eligible prior to and upon graduation.

Students are advised that while the DMS Program provides an introduction to the Vascular Technology specialty, the program does NOT have the clinical resources to ensure proficiency in the full spectrum of vascular examinations. However, with the foundation of knowledge gained at VUMC, many graduates have secured employment that provided the necessary additional training to prepare for the RVT (Registered Vascular Technologist) credential. A graduate can earn the RVT after gaining additional clinical training and experience, and subsequently successfully completing the Vascular Technology (VT) Specialty Exam. Additional details are available from the Program Director for those interested.

Organizations Related to Sonography

Numerous professional organizations are open and available to students for membership or general information:

American Registry of Diagnostic Medical Sonography

www.ardms.org

Society of Diagnostic Medical Sonography (Student membership is welcome and encouraged)

www.sdms.org

American Institute of Ultrasound in Medicine (Student membership is welcome and encouraged)

www.aium.org

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# **Commission for Accreditation of Allied Health Education Programs (CAAHEP)**

www.caahep.org

Joint Review Commission for Education in Diagnostic Medical Sonography (JRC-DMS)

www.jrcdms.org

#### **Equipment List**

Sonography Equipment

Three (3) Philips® ultrasound units:

- Two (2) Epiq
- One (1) iU22

Full complement of transducers:

- C5-1 and C9-2
- V6-2
- L8-4, L9-3, L12-5, L12-3, L18-5, L17-5
- S5-1
- X6-1 (matrix array)

# Equipment and supplies include:

Computer with Internet and network access; Sectra® image storage system, eStar® EMR, VUnet ids/passwords, hospital supplies (i.e. gel, linens), various anatomical models and charts are also available (i.e., fetal heart model, liver anatomy/pathology chart).

This catalog contains only a summary of program policies and procedures. Students should refer to the program handbook for additional information.

# DIETETIC INTERNSHIP PROGRAM

# **Program Description**

The Vanderbilt University Medical Center (VUMC) Dietetic Internship Program is a post-baccalaureate certificate program within a comprehensive medical center and healthcare organization. VUMC is dedicated to innovative research, high-impact training and personalized patient care. VUMC's mission is to be a leader in health and wellness through preeminent programs in patient care, professional training and research.

The VUMC Dietetic Internship Program's principal focus is to provide comprehensive supervised practice experiences which meet the competencies for entry level practice and to prepare students for the credentialing examination for Registered Dietitian Nutritionists.

The program participates in both national application and computer matching processes. Eighteen students are accepted for the 44-week full-time internship program; which runs from August to June. The Internship Director and Education Coordinators plan the curriculum and guide the supervised practice experiences. An orientation series (Rotation Readiness) prepares students for rotation experiences. A rotation schedule guides students thru 14weeks of disease management and 14 weeks of health promotion rotations. Training sites are primarily on the Vanderbilt campus and within the Nashville community. Professional development class days are scheduled on most Fridays for workshops, simulations, case studies, and interprofessional meetings. Students complete 4 weeks of entry level and 3weeks of concentration practice experiences to demonstrate their readiness to competently practice in disease management- health promotion settings.

The VUMC Dietetic Internship Program has a robust supervised practice network of preceptors and instructors who serve as role models and donate their time and expertise to train the next generation of Registered Dietitian Nutritionists.

Additional innovative areas of personalized student focus include:

- leadership development,
- emphasis on critical care nutrition and
- blending of counseling/coaching styles of practice

The dietetic interns contribute to the overall excellence of food and nutrition by providing patient care and education, stimulation to the staff and by engaging in projects that are beneficial to the institutions. With an emphasis on education, the Dietetic Internship Program benefits the community by training future Registered Dietitian Nutritionists to translate evidence- based food and nutrition science for the public.

Complete information about the program curriculum may be found on its website, at <a href="https://ww2.mc.vanderbilt.edu/DieteticInternship/">https://ww2.mc.vanderbilt.edu/DieteticInternship/</a>.

# Licensure/Certification/Credentialing

The Vanderbilt Dietetic Internship program provides comprehensive supervised-practice experiences leading to a certificate of completion (verification statement) that affords the graduate eligibility for the national credentialing examination for Registered Dietitian Nutritionists, as well as for state licensure. Upon successful program completion, the Internship Director submits the graduate's Candidate Eligibility Application (using the Registration Eligibility Processing System (REPS) On-Line System) to the Commission on Dietetic Registration.

#### **Program Costs**

Application Fee \$75 + Tuition \$12,500 + Books & Fees \$2,986 = Total Cost \$15,561

#### **Program Length**

The VUMC Dietetic Internship program is a 10-month (August-June), post-baccalaureate, supervised-practice certificate program. Students complete 1286 hours of supervised practice during this full-time, 44-week program.

# **Program Delivery Method**

Residential

#### **Program Mission, and Goals**

Dietetic Internship Mission Statement

The Vanderbilt Dietetic Internship will provide a **pre-eminent** supervised practice **program** that is an excellent model for preparing **knowledgeable**, **talented** and **compassionate** entry level dietitians delivering high quality nutrition therapy in the hospital and innovative nutrition programming within community based systems and networks.

Philosophy and Goals of the Dietetic Internship Program

VUMC is vitally involved in the education of healthcare professionals. The Medical Center provides the facilities and resources to serve as a teaching laboratory through which the dietetic intern can progress toward becoming a competent entry-level dietitian.

The 44-week Dietetic Internship, beginning in August each year, provides an opportunity for dietetic interns to gain a variety of clinical experiences at Vanderbilt University Medical Center, its affiliations and through field observations in the areas of food systems management, clinical dietetics and community nutrition. Such experiences are planned, guided and evaluated by the Internship Director, Educational Coordinator, dietitians and other professionals practicing in many areas of dietetics and healthcare who serve as both teachers and role models.

The dietetic interns contribute to the overall excellence of nutrition care at Vanderbilt University Medical Center and the affiliates by providing patient care and education, by providing stimulation to the staff and by engaging in projects that are beneficial to the institutions. With emphasis on education, the program benefits the community by providing sound information on nutrition and health to the public.

<u>GOAL#1</u>: To prepare entry level dietitians in core competencies and concentration competencies in disease management/ health promotion as a route to eligibility for credentialing by the Commission on Dietetic Registration.

Rearranging goal objectives in the section below – some are deleted. I'm following ACEND's guide as to what is required – instead of having extra things to track.

# **Program Objectives for Goal #1**

- A. At least 80 % of program interns complete MEd/DI program requirements within 15 months (150% of the program length).
- B. Of graduates who seek employment, 80% are employed in nutrition and dietetics or related fields within 12 months of graduation.
- C. At completion of the program, 80% of interns will be "satisfied" with supervised practice experiences provided through Vanderbilt University Medical Center's dietetic internship program.

<u>GOAL#2:</u> To provide a supply of competent entry-level dietitians to influence the supply and distribution of dietitians for Vanderbilt University Medical Center and the nation.

#### **Program Objectives for Goal #2**

- A. 80% of program graduates take the CDR credentialing examination for dietitian nutritionists within 12 months of program completion.
- B. The programs one year pass rate (graduates who pass the registration examination within one year of first attempt) on the CDR credentialing exam for dietitian nutritionists is at least 80%.
- C. Within 12 months post program completion, 80% of surveyed employer respondents will be "satisfied" with the graduates' preparation for entry level practice.
- D. Within 12 months post program completion, 80% of surveyed program graduate respondents will be "satisfied" with preparation for entry level practice provided by the Vanderbilt University Medical Center (VUMC) dietetic internship program.

# **Programmatic Accreditation/Approvals**

The Vanderbilt University Medical Center Dietetic Internship program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND). As the accrediting agency for education programs preparing students for careers as registered dietitian nutritionists (RDN) or dietetic technicians, registered (DTR), ACEND serves and protects students and the public by assuring the quality and continued improvement of nutrition and dietetics education programs.

#### ACEND:

Accreditation Council for Education in Nutrition and Dietetics 120 South Riverside Plaza, Suite 2000 Chicago, IL 60606-6995

Phone: 312.899.0040 ext. 5400 https://www.eatrightpro.org/acend

# Program Academic Calendar

Dietetic Internship		
2022-2023 Academic Calendar		
August 15, 2022	Internship Begins	
September 5, 2022	Labor Day – No Rotations	
November 20 – 27, 2022	Thanksgiving Break	
December 21, 2022 -January 3, 2023	Holiday Break	
April 7, 2023	Good Friday	
May 29, 2023	Memorial Day	
June 16, 2023	Program Completion	

# Program Faculty/Staff

Dianne Killebrew, MEd, RDN, LDN, Program Director (Full-time)

Kerri Baxter, MS, RDN, LDN, CNSC, Educational Coordinator: Disease Management (Full-time)

Sarah Ferguson, MPH, RDN, LDN, Educational Coordinator: Health Promotion (Full-time)

#### **Program Advisory Board**

Member Name	Credentials	Title
Dianne Killebrev	MEd, RDN, LDN	VUMC Dietetic Internship Director
Kerri Baxter	MS, RDN, LDN, CNSC	DI Educational Coordinator, Clinical
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Sarah Ferguson MPH, RDN, LDN DI Educational Coordinator, Community
Peggy Valentine EdD Vice President, Allied Health Education

Ebony McHaskell MS Director, CPiAH

Kristen Smith Asst Director, CPiAH

Jordan Sims MEd Faculty/Instructional Design Manager
Rachel Adams Med Student Services Support Manager

Jenny Pafford EdD Program Director, Nuclear Medicine Program

Cynthia Facemire MHA, MS, RDN, LDN, FADN Administrative Director, Facilities Planning & Transitions

Heidi Silver PhD, RDN, LDN Research Professor of Medicine

Chris Wilson MSN-RN, BC Director, Nursing Education & Prof Development

Jamie Pope MS, RDN, LDN, FAND Associate Professor, Nutritional Sciences

Marilyn Holmes MS, RDN, LDN Associate Director

Brandon Hulette MBA Associate Prof, Military Science

Abbie Kozomara MS, RDN, LDN Corporate Lyons Magnus

Sarah Martin MPP, RDN, LDN Nutritionist, Product Development Leslie Meehan MPA, AICP Director of Primary Prevention

Ronlanda Foley BS, RN Public Health RN/ Pediatric Case Mgmt

Kim Molnar BS Chief Operating Officer

Nicholas Rush RDN, CDN CEO

Elizabeth Robinson MEd, RDN, LDN Advisor, Program Accreditation

Heather Smith PhD, LPC-MHSP, NCC, RD, LDN Associate Professor

Elizabeth Smith PhD, RDN, LDN Associate Professor, Food, Nutrition & Dietetics

Myrtis Walker RDN, LDN VUMC Outpatient Clinical Dietitian
Kathryn (Alex) Wallace MS, RDN Manager, Patient Services Operations

#### **Admissions**

VUMC requires that all applicants to the allied health certificate programs must have a high school diploma, GED, or recognized equivalent. Further, VUMC allows an applicant to submit a copy of a post- secondary degree (i.e., Associate's, Bachelor's or Master's) in lieu of a copy of the high school diploma.

In addition to the minimum requirements listed above, the admission requirements include the following:

- Verification statement from an approved undergraduate or certificate program in dietetics
- Three excellent reference/recommendations (DPD director, academic professor and work/volunteer supervisor)
- Preferred DPD GPA of 3.0 on a 4.0 scale
- Applicable DPD nutrition courses must have been completed within the past 3 years
- Completed DICAS application
- Completed VUMC Dietetic Internship electronic supplemental application and application fee submitted and received on designated date (which is established by DICAS)

#### **Application Procedures**

The Dietetic Internship Program uses the online centralized internship application, referred to as DICAS (Dietetic Internship Centralized Application System). There are 3 steps to the complete application process:

- 1) Complete and submit the online application located in the DICAS portal (<a href="https://portal.docas.org">https://portal.docas.org</a>) between 12/2022 and 2/15/2023
- 2) Complete a VUMC supplemental application (using a link provided on the VUMC Dietetic Internship website) and an application fee of \$75 payable to VUMC by 2/15/2023
- 3) Rank dietetic internship choices by 2/15/2023 using the national D & D Digital computer matching service; https://www.dnddigital.com/

# Student Selection and Acceptance

A selection committee, consisting of preceptors, internship faculty, and current interns, reviews online applications. Each committee member individually considers GPA, extracurricular activities, work/volunteer experience, personal statement and references. Applicants must participate in computer matching that is managed by D & D Digital Systems. The online matching process aligns applicant internship preferences with internship selection of candidates.

VUMC will not notify students of acceptance. D & D Digital Systems will notify each applicant about the dietetic internship program to which he or she has been "matched." On match or appointment day, the applicant must confirm acceptance of the internship assignment with the VUMC Dietetic Internship Program Director via email on the designated date (which is established by D & D Digital Systems).

# **Academic Program and Assessment**

Program Sequence and Delivery

Course	Lecture	Lab	Practicum / Clinical	Total Hours
Dietetic Internship	0	0	1286.00	1286.00
Program Totals	0	0	1286.00	1286.00

The 44-week, full-time VUMC dietetic internship begins in August with a three-week orientation and concludes in June. Following the three- week orientation for 18 interns:

- 8 interns complete 14 weeks of disease management rotations + 2 weeks of entry level practice in disease management and
- 8 interns complete 14 weeks of health promotion rotations + 2 weeks of entry level practice in health promotion

At mid-point of the dietetic internship (January),

- Interns previously in disease management rotations, transition into 14 weeks of health promotion rotations
   + 2 weeks of entry level practice in health promotion and
- Interns previously in health promotion rotations, transition into 14 weeks of disease management rotations + 2 weeks of entry level practice in disease management

At the completion of health promotion and disease management rotations, 18 students transition into a 3 week concentration rotation. Successful completion of this rotation confirms their ability to practice as an entry level dietitian in disease management-health promotion practice settings.

Professional Development Days are typically scheduled on most Fridays throughout the internship and include presentations by preceptors and interprofessional teams. Supervised practice and professional development day schedules are designed around 8-hour schedules. Additional professional development experiences (i.e. qualitative research, clinic based nutrition care, community presentations, and interprofessional teaming) contribute to the overall total hours.

# Student Assessment and Grading

At the completion of the rotation, preceptors evaluate the students' performance based on written projects, rubrics, quizzes, etc using the following grading scale:

Scale	Grade	Definition
100-90%	А	Excellent
89-80%	В	Good
79-70%	С	Satisfactory
69-0%	F	Inadequate

Additionally, the preceptor provides a professional assessment of the interns' ability to function within each practice domain. The performance levels for the practice domains are:

Scale	Definition
Needs much improvement	Needs assistance on many projects; requires guidance to achieve predetermined objectives
Approaching entry level	Performs all activities with some assistance; generally, achieves pre-determined objectives
Entry level	Performs all activities correctly; works w/minimum assistance once guidelines are established; meets pre-determined objectives
Beyond entry level	Performs all activities w/great accuracy; works independently once guidelines are established; exceeds pre-determined objectives

Internship Faculty translate preceptor professional assessment scale into objective scores as follows:

Scale	Grade
Needs much improvement	60 = F
Approaching entry level	75 = C
Entry level	85 = B
Beyond entry level	100 = A

**Professional development experiences** are evaluated by Internship Faculty. These experiences enrich job ready skills development in disease management-health promotion practice settings. Competency based experiences may include:

- Professional Development Day (classes include simulations, case studies, role playing, seminar presentations
- Research & Development of a Clinical Case Study and Online Business Model

- Interprofessional Case Collaborations
- Interprofessional Community Service Collaborations
- Qualitative Research and Poster Presentations
- Internship Leadership Co-Chair

Overall scores for each rotation and professional development programming are determined utilizing rubrics and objective scores from core competencies (60%) and subjective performance ratings (40%). The grading scales detailed above apply to rotation and professional development programming.

At program completion, a minimum overall score of 85 must be achieved to meet requirements for receipt of a Verification Statement. The score of 85 indicates "entry level - performs all activities correctly; works w/minimum assistance once guidelines are established; meets pre-determined objectives"

After each rotation, students review competency grading forms during individual evaluation conferences with rotation preceptors. Students review scores on written projects, objective scores for core competencies and subjective performance ratings for professional behavior and readiness for entry level practice. The rotation grade is 60% objective (i.e. based on written projects) and 40% subjective (i.e. based on professional performance behavior and readiness to practice).

- If a project score is below 70, an alternative project is assigned and scored by the Internship Faculty; in consultation with the preceptor.
- If a student submits work late (beyond the documented and/or re-negotiated due date), a minimum of 5 points per day is deducted from the earned score.
- If an intern earns an overall rotation score of less than 75 in one rotation, the intern will meet with the Internship Director and Educational Coordinator(s) to prepare a written action plan for improvement to meet competency within a specified time period, depending on the learning needs of the intern, and within the 44-week program.
- Failure to achieve a minimum score of 75 in a second rotation will result in the intern being placed on academic probation.

**Mid-internship** (January) students are required to have an overall average score of 75; which translates to "approaching entry level." The mid-internship overall score for rotations is determined utilizing rubrics and objective scores from core competencies (60%) and subjective performance ratings (40%).

**Professional development experiences** are evaluated by Internship Faculty and reviewed individually with interns. Competency based experiences include: seminars, clinical case study/online business model, interprofessional case collaborations, community service, qualitative research/poster presentations and co-chair leadership.

Overall scores for professional development experiences are determined utilizing rubrics and objective scores from core competencies (60%) and subjective performance ratings (40%).

Grade information is accessible to students at any time in the student online learning management system (Canvas). Conferences may be scheduled at any time by the Internship Faculty or at the students' request.

**At program completion, a** minimum overall score of 85 must be achieved to meet requirements for receipt of a Verification Statement. Internship Faculty meet with each student during summary week to summarize performance in the 44-week internship program. Failure to achieve a final overall average score of 85 will result in termination prior to or at the summary week conference.

# Satisfactory Academic Progress (SAP)

#### SAP Standards

VUMC Dietetic Interns are required to maintain established program standards of competence and knowledge. Students are evaluated on a numerical rating scale (based on 100 points) by the rotation site preceptor. Additionally, Internship Faculty evaluate student professional development experiences using the same numerical rating scale (based on 100 points). The student is considered as maintaining satisfactory academic progress if he/she maintains a minimum average score of 75% in rotations and as indicated below in these additional categories:

Rotations in disease management-health promotion	>=75%	Required for each rotation
Required mid-year grade	>=75%	Overall grade required at mid-year for continuance in the program
Program completion – average in each domain	>=85%	Overall average grade required at program completion in practice domain categories I-IV
Program completion –domain V	>=85%	Overall average grade required at program completion in practice domain category V.
Program completion – total overall average	>=85%	Required at completion of internship; overall composite percentage out of 100 points.

If an intern earns an overall rotation score of less than 75 in one rotation, the intern will meet with the Internship Director and Educational Coordinator(s) to prepare a written action plan for improvement to meet competency within a specified time period, depending on the learning needs of the intern, and within the 44-week program.

Failure to achieve a minimum score of 75 in a second rotation will result in the intern being placed on academic probation.

Failure to return to satisfactory academic progress status after being placed on academic probation within the time required by the intern's written action plan for improvement may result in dismissal from the program.

# **Code of Conduct and Ethics**

In addition to the VUMC Code of Conduct, Dietetic Interns are bound by standards of conduct specific to their profession. Adherence to the VUMC Code of Conduct and the Code of Ethics for the Profession of Dietetics is required of students at all times.

# Code of Ethics for the Profession of Dietetics

Preamble: When providing services the nutrition and dietetics practitioner adheres to the core values of customer focus, integrity, innovation, social responsibility, and diversity. Science-based decisions, derived from the best available research and evidence, are the underpinnings of ethical conduct and practice.

This Code applies to nutrition and dietetics practitioners who act in a wide variety of capacities, provides general principles and specific ethical standards for situations frequently encountered in daily practice. The primary goal is the protection of the individuals, groups, organizations, communities, or populations with whom the practitioner works and interacts.

The nutrition and dietetics practitioner supports and promotes high standards of professional practice, accepting the obligation to protect clients, the public and the profession; upholds the Academy of Nutrition and Dietetics

(Academy) and its credentialing agency the Commission on Dietetic Registration (CDR) Code of Ethics for the Nutrition and Dietetics Profession; and shall report perceived violations of the Code through established processes.

The Academy/CDR Code of Ethics for the Nutrition and Dietetics Profession establishes the principles and ethical standards that underlie the nutrition and dietetics practitioner's roles and conduct. All individuals to whom the Code applies are referred to as "nutrition and dietetics practitioners". By accepting membership in the Academy and/or accepting and maintaining CDR credentials, all nutrition and dietetics practitioners agree to abide by the Code.

#### **Principles and Standards:**

# 1. Competence and professional development in practice (Non-maleficence)

Nutrition and dietetics practitioners shall:

- a. Practice using an evidence-based approach within areas of competence, continuously develop and enhance expertise, and recognize limitations.
- b. Demonstrate in depth scientific knowledge of food, human nutrition and behavior.
- c. Assess the validity and applicability of scientific evidence without personal bias.
- d. Interpret, apply, participate in and/or generate research to enhance practice, innovation, and discovery.
- e. Make evidence-based practice decisions, taking into account the unique values and circumstances of the patient/client and community, in combination with the practitioner's expertise and judgment.
- f. Recognize and exercise professional judgment within the limits of individual qualifications and collaborate with others, seek counsel, and make referrals as appropriate.
- g. Act in a caring and respectful manner, mindful of individual differences, cultural, and ethnic diversity.
- h. Practice within the limits of their scope and collaborate with the inter-professional team.

# 2. Integrity in personal and organizational behaviors and practices (Autonomy)

Nutrition and dietetics practitioners shall:

- a. Disclose any conflicts of interest, including any financial interests in products or services that are recommended. Refrain from accepting gifts or services which potentially influence or which may give the appearance of influencing professional judgment.
- b. Comply with all applicable laws and regulations, including obtaining/maintaining a state license or certification if engaged in practice governed by nutrition and dietetics statutes.
- c. Maintain and appropriately use credentials.
- d. Respect intellectual property rights, including citation and recognition of the ideas and work of others, regardless of the medium (e.g. written, oral, electronic).
- e. Provide accurate and truthful information in all communications.
- f. Report inappropriate behavior or treatment of a patient/client by another nutrition and dietetics practitioner or other professionals.
- g. Document, code and bill to most accurately reflect the character and extent of delivered services.
- h. Respect patient/client autonomy. Safeguard patient/client confidentiality according to current regulations and laws.
- i. Implement appropriate measures to protect personal health information using appropriate techniques (e.g., encryption).

# 3. Professionalism (Beneficence)

Nutrition and dietetics practitioners shall:

- a. Participate in and contribute to decisions that affect the well-being of patients/clients.
- b. Respect the values, rights, knowledge, and skills of colleagues and other professionals.

- c. Demonstrate respect, constructive dialogue, civility and professionalism in all communications, including social media.
- d. Refrain from communicating false, fraudulent, deceptive, misleading, disparaging or unfair statements or claims
- e. Uphold professional boundaries and refrain from romantic relationships with any patients/clients, surrogates, supervisees, or students.
- f. Refrain from verbal/physical/emotional/sexual harassment.
- g. Provide objective evaluations of performance for employees, coworkers, and students and candidates for employment, professional association memberships, awards, or scholarships, making all reasonable efforts to avoid bias in the professional evaluation of others.
- h. Communicate at an appropriate level to promote health literacy.
- i. Contribute to the advancement and competence of others, including colleagues, students, and the public.
- 4. Social responsibility for local, regional, national, global nutrition and well-being (Justice)
  Nutrition and dietetics practitioners shall:
  - a. Collaborate with others to reduce health disparities and protect human rights. b. Promote fairness and objectivity with fair and equitable treatment.
  - c. Contribute time and expertise to activities that promote respect, integrity, and competence of the profession.
  - d. Promote the unique role of nutrition and dietetics practitioners.
  - e. Engage in service that benefits the community and to enhance the public's trust in the profession.
  - f. Seek leadership opportunities in professional, community, and service organizations to enhance health and nutritional status while protecting the public.

#### References:

- 1. Fornari A. Approaches to ethical decision-making. J Acad Nutr Diet. 2015;115(1):119-121.
- 2. Academy of Nutrition and Dietetics Definition of Terms List. June, 2017 (Approved by Definition of Terms Workgroup Quality Management Committee May 16, 2017). Accessed October 11, 2017. http://www.eatrightpro.org/~/media/eatrightpro%20files/practice/scope%20standards%20of%20practice/a

<u>cademydefinitionoftermslist.ashx</u>3. Academy of Nutrition and Dietetics: Revised 2017 Standards of Practice in Nutrition Care and

Standards of Professional Performance for Registered Dietitian Nutritionists. *J Acad Nutr Diet.* 2018; 118: 132-140.

4. Academy of Nutrition and Dietetics "Diversity Philosophy Statement" (adopted by the House of Delegates and Board of Directors in 1995).

#### Vanderbilt Dietetic Internship Honor Code

Interns are required at all times to follow the VUMC Center for Programs in Allied Health Academic

Integrity/Honor Code (see institutional policies section of this catalog for more details). Similarly, the VUMC Dietetic Internship has established a program-specific Honor Code to highlight the importance of academic and personal integrity.

As professional students, it is expected that the Vanderbilt Dietetic Internship Honor Code is followed at all times. All projects submitted are presumed to be the intern's own work unless credit is given using the proper format. The following are considered violations of the Honor Code and will result in dismissal from the Internship.

- 1. Cheating on an examination, test or written project
- 2. Plagiarizing (incorporating into one's own work the work of another without identifying the source) in an assigned paper, report or project
- 3. Submitting work prepared by another person as one's own (including use of texts, papers, computer programs, or other class work prepared by commercial or noncommercial agents)
- 4. Submitting work prepared for another rotation without the specific prior authorization of the supervising dietitian
- 5. Falsely reporting personal illness or work hours on monthly time sheets
- 6. Falsification of results of study and research

The grievance procedure shall be available to the dietetic intern when disciplinary action is recommended as a result of an alleged Honor Code violation.

#### Student Grievance Procedure

The institutional section of this catalog provides information about the VUMC Center for Programs in Allied Health Student Grievance Policy and Procedures. In addition, Dietetic Interns have the opportunity to file complaints to the program accreditor related to the VUMC Dietetic Internship's compliance with accreditation and approval standards. Information about this is provided below. Interns are protected from retaliation as a result of filing a complaint related to the Vanderbilt Dietetic Internship program.

NOTICE OF OPPORTUNITY TO FILE COMPLAINTS WITH THE ACCREDITATION COUNCIL FOR EDUCATION IN NUTRITION AND DIETETICS

The Accreditation Council for Education in Nutrition and Dietetics will review complaints that relate to a program's compliance with the accreditation/approval standards. The Council is interested in the sustained quality and continued improvement of dietetics education programs but does not intervene on behalf of individuals or act as a court of appeal for individuals in matters of admission, appointment, promotion or dismissal of faculty, staff, or students.

A copy of the accreditation/approval standards and/or the Council's policy and procedure for submission of complaints may be obtained by contacting the Education and Accreditation staff at The Academy of Nutrition and Dietetics at 120 South Riverside Plaza Suite 2000, Chicago, Illinois 60606 or by calling 1-800-877-1600 extension 4872.

Written complaints should be mailed to the Chair, Accreditation Council for Education in Nutrition and Dietetics at the above address.

Adopted: July 1994

#### **Graduation/Completion Requirements**

Program completion occurs when the dietetic intern completes the following requirements:

- A minimum of 1286 hours of supervised practice experience in disease management- health promotion rotations and professional development programming (i.e. seminar presentations, clinical case study, online business model, interprofessional case and service collaborations, qualitative research poster presentations, leadership co-chair roles)
- Demonstrate ethical and professional performance competence as an entry level practitioner in professional practice and disease management -health promotion settings.
- Achieve a minimum overall average score of 85. Overall scores for each rotation and professional development programming are determined utilizing rubrics and objective scores from core competencies (60%) and subjective performance ratings (40%)

- Complete program requirements in a minimum of 44-weeks. However, the maximum time frame for completing the VUMC Dietetic Internship is 15 months (150% of the 10 month or 44-week program)
- Meet all financial obligations as confirmed by the VUMC Center for Programs in Allied HealthCompletion
  of the Commission on Dietetic Registration Exit Packet including Registration Eligibility Application Form,
  RDNE and RDE Mis-Use Form, and demographic information on the CDRREPS portal

# **Other Program Policies**

**Professional Meetings** 

Professional meetings are an important part of professional development. Meetings of the Nashville Academy of Nutrition and Dietetics (NAND) are held quarterly, September through May. Meetings for the Middle Tennessee Society for Parenteral and Enteral Nutrition (MTSPEN) are held several times throughout the year as well. Costs related to these activities are included in the VUMC Center for Programs in Allied Health Cost of Attendance Table in this catalog.

At times, it may be appropriate for the Internship staff or preceptor to modify the learning objectives in order for an intern to attend a special meeting.

# **Equipment List**

There is no official equipment recognized by the DI Program.

A personal, laptop computer with Microsoft Word is required. Dietetic Interns do have access to a shared computer lab with computers, workstations for patient charting and printers.

This catalog contains only a summary of Dietetic Internship program policies and procedures. Students should refer to the Dietetic Internship Program Handbook and Syllabus for more detailed information

# MEDICAL LABORATORY SCIENCE PROGRAM

# **Program Description**

The Vanderbilt University Medical Center (VUMC) sponsors the Medical Laboratory Science (MLS) program within the Department of Pathology, Microbiology, and Immunology and the VUMC Diagnostic Laboratories. The Veterans Administration (VA) Hospital originally sponsored the VUMC Medical Laboratory Science Program and graduated its first class in 1954. Sponsorship transferred to Vanderbilt University Hospital in 1968, and the program has been in continuous operation since then.

Medical laboratory scientists are trained in all major clinical pathology areas, including Clinical Chemistry, Hematology, Hemostasis and Thrombosis, Immunopathology, Immunohematology, Microbiology, Urinalysis & Body Fluids, Molecular Diagnostics, and Management/Supervisory skills.

Training includes didactic, student laboratory, and practical experiences. Student laboratory and classroom spaces are located in Light Hall on the VUMC campus, and additional space is provided throughout the Diagnostic Labs in The Vanderbilt Clinic (TVC) for student use. The Medical Laboratory Science program administration office and library are also found in TVC. The program officials include a Medical Director, Program Director, Education Coordinator, and faculty from each area of the laboratory who are experts in their respective departments.

# Licensure/Certification/Credentialing

Upon successful completion of the program, students are awarded a Certificate in Medical Laboratory Science and are eligible to sit for exams to receive national certification. Upon receipt of national certification by a recognized national agency, students become eligible for licensure from the State of Tennessee as a Medical Laboratory Technologist.

# **Program Costs**

Application Fee \$50 + Tuition \$7,500 + Books & Fees \$1,524 = Total Cost \$10,597

#### **Program Length**

Students complete 75 semester credit hours during 56 weeks of full-time study. Classes begin the first week of June and continue until the end of June the following year.

# **Program Delivery Method**

Residential

# **Program Mission, Credo and Goals**

Program Philosophy and Mission Statement

The Medical Laboratory Science Program strives to maintain a quality education program to accomplish the following outcomes.

To provide proficient employees with advanced knowledge and skills for diagnostic laboratories at VUMC and other healthcare organizations.

Students perform high throughput and high complexity testing on a diverse patient population after training in VUMC's diagnostic laboratories. Students become familiar with VUMC policies and procedures, preparing them to begin training as employees immediately after graduation. This integration of students in the VUMC laboratory environment decreases the expenses VUMC pays in recruitment and employee selection. Students

who choose to work at other health care organizations after graduation apply the knowledge and experiences from the program to work in a fast-paced environment of varying complexities.

# To provide a stimulating learning environment for students and laboratory staff.

Being involved in laboratory education provides an atmosphere in which laboratory professionals are pushed to maintain knowledge of current theory and testing procedures. Employees are challenged to investigate new and emerging trends in the field, positively affecting patient care. Interacting with students also allows employees to improve their skills in communication and instruction.

# To maintain a source of professionals who constantly and consistently bring new knowledge into the laboratory field to drive change in health care.

Stagnation, job dissatisfaction, and burnout are reduced in the laboratory by providing a constant source of new professionals to alleviate staffing issues. These new professionals are motivated to learn and support patient care and laboratory testing. Laboratory professionals engage and share knowledge with students, ensuring that the students will have current, practical knowledge upon entering the workforce. Students also participate in seminar activities that prepare theme to be leaders in their selected focus after graduation. Graduates of the program are encouraged to participate in professional organizations and other activities to influence the direction and remain on the forefront of their chosen career.

# Program Goals/Objectives

The Medical Laboratory Science Program at Vanderbilt University Medical Center bases its educational program on principles essential to the preparation of students to achieve the ideals of the profession. The VUMC Medical Laboratory Science program strives to instill in each student:

- The knowledge, skills, and professional attitude necessary for accurate and proficient measurement of laboratory analytes.
- The concern for others which supports quality patient care and cooperation with fellow employees.
- The desire to strive for new knowledge and progress and to accept changing trends in the profession.
- The capacity to accept leadership roles in their departments, including management or education.
- Interest in the growth and development of medical laboratory science as a profession.

These goals are accomplished through students' ability to do the following by the end of the program:

- Perform and interpret medical laboratory tests.
- Troubleshoot testing and instrument issues.
- Participate in laboratory assessment and improvement.
- Demonstrate professional behavior.
- Discuss physiological processes in normal and disease states.
- Identify limitations to testing and interpretation.
- Communicate and assist patients and other health care professionals.

#### **Programmatic Accreditation/Approvals**

The Medical Laboratory Science Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). NAACLS is recognized by the Council for Higher Education Accreditation and is committed to quality in education and educational review. The program is also licensed by the State of Tennessee as required by the Tennessee Laboratory Act and is approved to operate by the Tennessee Department of Health. Students

completing the year of training are eligible for the national certification as a Medical Laboratory Scientist by examination through agencies such as the American Society of Clinical Pathologist Board of Certification (BOC).

Upon receipt of national certification, the graduate becomes eligible for state licensure by the Tennessee Department of Health.

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

5600 N. River Road, Suite 720 Rosemont, IL 60018-5119

Phone: 773.714.8880 Fax: 773.714.8886 E-mail: info@naacls.org

American Society of Clinical Pathologist Board of Certification (ASCP BOC)

33 W. Monroe Street, Suite 1600 Chicago, IL 60603 www.ascp.org

Tennessee Department of Health: Medical Laboratory Board

665 Mainstream Drive, 2nd Floor

Nashville, TN 37243

Phone: 615.532.5128 local or 1.800.778.4123 nationwide

#### Program Academic Calendar

9				
Medical Laboratory Science Program				
2022-2023 Academic Calendar				
May 31, 2022	Start Date			
July 4, 2022	Independence Day			
August 29 - September 2, 2022	Fall Break			
September 5, 2022	Labor Day			
November 24 - 25, 2022	Thanksgiving Break			
December 19, 2022 - January 2, 2023	Winter Break			
Variable 5-day period*	Spring Break			
May 29, 2023	Memorial Day			
June 23, 2023	End Date			

<sup>\*</sup>Due to clinical rotation schedules, each student has a different spring break week. Students may request specific spring break weeks and are notified of their spring break dates in November of the prior year.

# Program Faculty/Staff

Holly Covas, Ed.D, MPH, MLS (ASCP)<sup>CM</sup>, MLS Program Director (Full-time)

Ed.D, Learning and Organizational Change, Baylor University, Baylor, TX; MPH, Public Health, University of California, Berkeley, 2014; BS, Clinical Laboratory Science, 2010, University of Mississippi Medical Center, Jackson, MS; AAS, Medical Laboratory Technology, 2007, Meridian Community College, Meridian, MS

Sylvia Verhoven, MLS (ASCP)<sup>CM</sup>, MLS Program Education Coordinator (Full-time)
Certificate, Medical Laboratory Science, Vanderbilt University, Nashville, TN, 2014, BS, Biology, University of Alabama, Tuscaloosa, AL, 2010

Garrett Booth, M.D., MS, Medical Director

Professor of Pathology, Microbiology & Immunology (Part-time) Associate Medical Director, Transfusion Medicine MD, 2007, University of Arizona College of Medicine, Tucson, AZ; MS, Epidemiology, 2002, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD; BS, Neuroscience and Psychobiology, 2000, UCLA Honor's College, Los Angeles, CA

Emily Bishop, MLS (ASCP) Instructor (Part-time)

Certificate, MLS, 2006, Vanderbilt University, Nashville, TN; BA, Biology, Carson Newman College, Jefferson City, TN

Jennifer Blackburn, MLS (ASCP), Instructor (Part-time)

Certificate, MLS, 2004, Vanderbilt University Medical Center, Nashville, TN; BS, Biology, 1999, Middle Tennessee State University, Murfreesboro, TN

Amanda Fultz, MLS (ASCP)<sup>CM</sup>, Instructor (Part-time)Certificate, MLS, 2014, Vanderbilt University Medical Center, Nashville, TN; BS, Pre-Medical Technology, 2014, Middle Tennessee State University, Murfreesboro, TN; AS, Biology, 2012, Volunteer State Community College, Hendersonville, TN

Sharon Glover, MLS (ASCP) Instructor (Part-time)

Certificate, 1987, Medical Technology, St. Francis, Memphis, TN; BS, Biology, 1986, Middle Tennessee State University, Murfreesboro, TN

Erika Hall, MLS (ASCP) Instructor (Part-time)

Certificate, MLS, 2008, Vanderbilt University Medical Center; BS, Biology, 2006, Middle Tennessee State University, Murfreesboro, TN; AAS, Science, 2000, Patrick Henry Community College, Martinsville, VA

Mary Laramie, MLS (ASCP)<sup>CM</sup>, Instructor (Part-time)

Certificate, MLS, 2016, Vanderbilt University; BS, Medical Laboratory Science, 2016, Middle Tennessee State University, Murfreesboro, TN

Carly Marcum, MLS (ASCP)<sup>CM</sup>, Instructor (Part-time)

BS, MLS, 2010, Purdue University, West Lafayette, IN;

Perceus Mody, MLS (ASCP)<sup>CM</sup> Instructor (Part-time)

Certificate, MLS, 2015, Vanderbilt University, Nashville, TN; BS, Medical Laboratory Science, 2015, Mississippi State University, Starkville, MS

Doris Ortez, MLS (ASCP), Instructor (Part-time)

Certificate, MLS, 2012, Vanderbilt University, Nashville, TN; BS, 2008, Middle Tennessee State University, Murfreesboro, TN

Nick Rivera, MLS (ASCP)<sup>CM</sup>, Instructor (Part-time)

Certificate, MLS, 2017, Vanderbilt University BS, Biology with Chemistry minor, 2016, Union University

Jill White-Abell, MLS (ASCP), Instructor (Part-time)

Certificate in Medical Technology, Lourdes Hospital, Paducah, KY, 1983; BS, Biology, Murray State University, Murray, KY, 1981; Assoc. Degree, Medical Technology, Murray State University, Murray, KY, 1980

#### **Program Advisory Board**

The Program Advisory Committee is composed of representatives from multiple laboratory sections within the VUMC Diagnostic Laboratories, the VUMC Department of Pathology, and the community. Representation includes

pathologists, administrators, managers, supervisors, program graduates, and clinical instructors/medical laboratory scientists and representatives from the community. The Program Advisory Committee (PAC):

- Provides input into any aspect of the program/curriculum with regard to its current learning outcomes, relevancy, and effectiveness.
- Serves as the admission committee to review and make decisions on student selection or dismissal.
- Reviews any grievances that require resolution. This function activates the ad hoc members.
- Members serve a four-year term, on a rotating basis.

The Program Advisory Committee is composed of the following individuals:

Member Name	Credentials	Title
Holly Covas	MPH, MLS (ASCP)CM	Program Director
Sylvia Verhoven	MLS (ASCP)CM	<b>Educational Coordinator</b>
Ebony McHaskell	MS	Director, CPiAH
Mary Ann Thompson Arildsen,	M.D., PhD	Medical Director
Jennifer Blackburn	MT (ASCP)	MLS 4
Bruce Greig	MT, ASCP	Team Leader
Robert D. Hoffman II	M.D., PhD	Professor
Susan Sefers	MT (ASCP)	Manager
Jessie Smith	MLS (ASCP)CM	MLS 3
Jill White-Abell	MT (ASCP)	Team Leader
Martha Dagen	MT (ASCP)	MLS 2
Ashely Davis	MLS (ASCP)CM	
Pamela Fair	Ph.D, MT(ASCP)	MLT Program Director
Kimberly Helton	MS, MLS(ASCP)CM	MLT Program Director
Diamondie Smith	MLS (ASCP)CM	MLS 2
Victoria Davis	MLS (ASCP)CM	MLS 2

#### **Admissions**

# Admission Requirements

VUMC requires that all applicants to the allied health certificate programs have a high school diploma, GED, or recognized equivalent. VUMC allows an applicant to submit a copy of a post-secondary degree (i.e., Associate's, Bachelor's or Master's) in lieu of a copy of the high school diploma.

Applicants to the Medical Laboratory Science program must:

- Possess a bachelor's degree from an accredited college or university OR
- Be eligible to receive a bachelor's degree from one of the program's academic affiliated schools upon successful completion of the VUMC Medical Laboratory Science program.

Eligible applicants are required to have a minimum of three years (90 semester or 136 quarter hours) of college credits at a regionally-accredited college or university.

Out of the 90 total semester hours (136 quarter hours) required for acceptance into the program, qualified applicants must complete the following with a total and science (biology and chemistry) GPA of 2.5 or greater before starting the program:

- At least 16 semester hours or 24 quarter hours of Chemistry
  - 1. Required:
    - General/College Chemistry I
    - General/College Chemistry II
    - Organic Chemistry or Biochemistry
  - 2. Recommended: Quantitative Analytical Chemistry, Clinical Instrumentation
- At least 16 semester or 24 quarter hours of Biological Sciences
  - 1. Required:
    - Microbiology
    - Immunology
  - 2. Recommended: Genetics, Anatomy & Physiology
- At least 3 semester hours or 4.5 quarter hour of College Mathematics (at College Algebra level or higher)

The content of courses must be applicable towards a major in that area or in medical laboratory science. Survey, CLEP, or AP courses are not accepted toward the requirements.

#### **Essential Functions**

Students must possess, and maintain throughout their time in the program, the ability to perform and interpret routine laboratory procedures. The actions required to do so include, but are not limited to:

- Physical capability and manual dexterity required to perform laboratory procedures, including repetitive hand motions, such as pipetting and typing, and lifting materials up to 25 pounds
- Differentiation of colors and images for interpretation of colorimetric reactions and cellular morphology
- Effective and respectful communication through written and verbal language with instructors, classmates, medical laboratory personnel, patients, physicians, and other health care professionals
- Utilize critical thinking and deductive reasoning through application of previously-learned information and assimilation of new information
- Perform tasks without outside guidance or assistance within given time constraints and within changing environments

#### **Application Procedure**

Individuals from a regionally-accredited college or university who meet the minimum academic requirements are eligible for admission into the program. Applications are accepted beginning July 1 each year. The link for submission and all accompanying documents required can be found on the MLS website. All application materials must be submitted by November 1 to meet the priority deadline. A final deadline for all materials by the Friday of the second week in January must be met for consideration.

#### **Priority Selection**

Applicants may be provided priority selection into the program if and once ALL following requirements are met:

<sup>\*</sup>Individuals who completed coursework in Immunology, Microbiology, Genetics, and Organic Chemistry or Biochemistry at least 7 years prior to application are requested to complete updated courses in each.

- 1. The electronic application and all accompanying documents are submitted by the priority deadline of November 1.
- 2. The applicant meets all minimum requirements, including the completion of all prerequisite courses before the program will begin in June.
- 3. The applicant completes his/her interview.
- 4. The applicant has a total ranked score of 3.75 or greater. Refer to the calculation in the MLS program handbook for information concerning the ranked score.

Applicants who meet all above criteria for priority selection will be notified in writing of acceptance into the program following the processing of the results of the interview score and the subsequent calculation of the overall rank. This process will bypass the typical selection of applicants by the Program Advisory Committee in February, thus providing a "fast track" option in which qualified applicants will be selected for the cohort sooner than February.

Applicants must submit the following:

- Completed program application (link available on MLS program website).
- Official transcripts from all universities and colleges attended regardless of graduation status.
- A list of courses in progress or to be completed prior to the June admission date.
- Three references, with at least two from current or previous faculty, and one from an employer or individual familiar with the applicant's character. Reference name and emails will be submitted with the electronic application. Upon submission, references will receive an application to submit their review and an optional letter of recommendation.

Prospective students and applicants may contact the program director, Holly Covas, by email at holly.covas@vumc.org or by phone at 615-322-8681.

#### Admission Interviews

All applicants who meet the minimum qualifications for acceptance are invited to interview with the program. Interview dates are based on the availability of both the student and program director. Interviews include:

- Interview and program overview with the program director and education coordinator.
- Interviews with one or two additional faculty members or laboratory personnel.
- Tour of the diagnostic laboratories and classroom.

During the interview, the details of the program and the selection process are discussed in detail. Applicants are encouraged to ask questions.

#### Applicant Selection and Acceptance

The Program Advisory Committee makes offers of admission to the program in February of each year. All participants are evaluated on an individual basis, with selection based on the following criteria:

- Cumulative grade point average (GPA)
- Grade point average in science coursework
- Letters of recommendation or pre-professional evaluation
- Interviews

The selection process includes a review of each applicant based on academic achievement, work experience, interest and knowledge of the medical laboratory science profession, career goals, and personal attributes that would contribute to the success of the applicant in the program and as a medical laboratory scientist. These attributes

include the ability to make decisions based on sound knowledge, strong ethical and moral attitudes, and a commitment to quality patient care.

# **Academic Program and Assessment**

Curriculum Sequence/Program Delivery

Classes begin the first week of June and continue until the end of June the following year. Orientation is held during the first week of class and provides an opportunity for students to become acquainted with fellow students, faculty members, and the organization. Course work during this orientation week consists of an introduction and review of basic laboratory operations and skills.

The academic year is divided into two semesters/terms, each approximately six months long.

- First semester/term: This semester is comprised of the lecture/student laboratory portion of the
  program. It begins in June and is completed in mid-December. Coursework completed during this
  portion of the program takes place in a classroom setting, during which students attend lectures and
  complete student laboratory assignments. Students complete out-of-class assignments such as study
  questions, case studies, and reading, as well as in-class assessments of quizzes, exams, and laboratory
  practicals.
- Second semester/term: The second semester runs from January through the end of June and includes
  the clinical practical (i.e., clinical rotations) in each department of the clinical and diagnostic laboratories.
  During this time, students work alongside medical laboratory scientists to learn how to operate the
  instrumentation and interpret results. Students complete case studies, checklists, study questions,
  unknown patient samples, research papers, and written assessments.

Students are required to be present on a full-time basis throughout the year of training. Classes in the first term run from 8:30 a.m. to 4:30 p.m. Monday through Friday. Clinical rotation hours (during the second term) vary according to individual laboratory sections and include some rotation time during evening and night shifts.

Course Code	Course Titles	Lecture	Lab	Practicum / Clinical	Total Semester Credit Hours
BCH103	Body Fluids	0.7	0.23		0.5
BCH203	Body Fluids Rotation			0.89	0.5
BCH101	Clinical Chemistry	11.67			11.5
BCH201	Clinical Chemistry Rotation			2.67	2.5
HEM101	Hematology	7.03	1.73		8.5
HEM201	Hematology Rotation			2.67	2.5
HEM102	Hemostasis/Thrombosis (Coagulation)	2.33			2
HEM202	Hemostasis/Thrombosis (Coagulation) Rotation			0.89	0.5
IMH102	Immunohematology (Blood Bank)	4.67	1.17		5.5
IMH202	Immunohematology (Blood Bank) Rotation			3.56	3.5
IMH101	Immunology	2.33			2
IMG201	Immunology Rotation			0.89	0.5
MIC101	Microbiology (Bacteriology/Mycology)	9.23	1.73		10.5

MIC201	Microbiology (Bacteriology/Mycology) Rotation			3.56	3.5
SPT104	Molecular	2.1			2
SPT204	Molecular Rotation			0.89	0.5
SPT101	Orientation	1.6	0.27		1.5
MIC103	Parasitology	0.67	0.83		1.5
SPT205	Phlebotomy Rotation			0.93	0.5
SPT102	Seminar	4.47	0.27		4.5
BCH104	Special Chemistry	5.83			5.5
BCH204	Special Chemistry Rotation			1.78	1.5
BCH102	Urinalysis	1.33	0.5		1.5
BCH202	Urinalysis Rotation			0.89	0.5
MIC102	Virology	1.17			1
MIC202	Virology Rotation			0.89	0.5
	TOTALS	55.13	6.73	20.51	75

# **Course Descriptions**

COURSE NAME	COURSE CODE	DESCRIPTION
Body Fluids	BCH103	Body fluids instructs students on the normal and abnormal cells found in body fluids aside from urine and blood, including serous, spinal, and synovial fluids. Students learn about normal and pathophysiology, how to identify poor collection procedures, and how to correlate results with disease processes.
Immunohematology (Blood Bank)	IMH102	Immunohematology studies blood group antigens and antibodies and their significance in transfusion therapy. This course includes donor selection, laboratory procedures for processing and selecting blood products, identification of blood group antigens and antibodies, blood storage procedures, quality control, transfusion practices and related complications, and component therapy.
Clinical Chemistry	BCH101	Clinical Chemistry explores biochemical constituents of body fluids, including physiology and pathphysiology. Emphasis is placed on the analytical methods of the laboratory. This includes the study of the principles, operation and maintenance of laboratory instrumentation, and quality control and quality assurance tools.
Hematology	HEM101	Hematology involves the study of maturation, morphology, and function of blood cells and their role in disease processes. Emphasis is placed on both manual and automated laboratory procedures, blood cell identification, and the relationship of cells with specific diseases such as anemia, leukemia, lymphomas, and reactive processes.

Hemostasis/Thrombosis (Coagulation)	HEM102	Coagulation studies the interaction of blood vessels, platelets, coagulation factors, and fibrinolytic system. Emphasis is placed on the laboratory procedures used in the diagnosis and management of various bleeding and thrombotic disorders.		
Immunology (Immunopathology)	IMH101	Immunology discusses the immunological response in infections and autoimmune diseases, the characterization of lymphocyte populations in neoplasms, and abnormal immunologic responses.		
Microbiology (Bacteriology/Mycology)	MIC101	Microbiology focuses on bacteria and fungi that infect humans. The course includes the laboratory identification of bacteria and fungi using conventional biochemical methods as well as rapid systems, antimicrobial susceptibility testing, and evaluation of clinical specimens for evidence of infection.		
Molecular	SPT104	This course is the study of human and infectious agents' DNA, RNA, and chromosomes as they relate to normal and pathophysiology. Emphasis is placed on basic molecular theory, basic and advanced laboratory procedures, and the correlation of test results to disease states.		
Orientation	SPT101	Students are oriented to the program, profession, and VUMC. Students receive presentations to review important information they will need to utilize during the program, such as anatomy and physiology, medical terminology, and immunology. The focus of this course is to give them the basic skills and knowledge they will need to progress in the program.		
Parasitology	MIC103	Students learn about the life cycles and diagnostic stages of clinically significant parasites, focusing on the etiology and infective stages.  Laboratory procedures for detecting and differentiating parasites are emphasized, including microscopic characteristics and molecular methods of detection and identification.		
Phlebotomy Rotation	SPT205	Phlebotomy introduces students to blood collection, following safety practices and the order of draw. Students attend an instructional lecture and practice in the student laboratory in the fall before completing the phlebotomy rotation in the spring/summer. During the rotation, students complete 50 successful blood draws from outpatient patients under the direct supervision of a phlebotomist.		
Seminar	SPT102	A variety of topics are covered in this course, including management and supervisory skills, laboratory operations, educational methodologies, research skills, regulatory issues, quality assurance tools, career planning, and reviews of technical material.		
Special Chemistry	BCH104	Special Chemistry includes endocrinology and toxicology. Students explore physiology, pathophysiology, detection, and signs and symptoms related to hormones and their disease states. Toxicology covers therapeutic drugs, illicit drugs, volatiles, pharmacology, and pharmacokinetics and pharmacodynamics.		
Urinalysis	BCH102	Urinalysis assesses the physical, chemical, and microscopic properties of urine. Emphasis is placed on laboratory procedures, morphological findings, and the correlation of test results to disease states. The course also introduces students to renal anatomy and physiology.		

	Virology	MIC102	Virology studies human viruses. Students learn about the laboratory and
		clinical manifestations of viruses. They also learn about rapid, screening	
			and confirmatory tests for these viruses.
- 1			

#### **Clinical Rotations**

All clinical rotations apply the theoretical knowledge and psychomotor skills learned in the rotation's associated lecture and student laboratory exercises to teach students how to operate current and emerging technologies to interpret test results related to diagnosis, prognosis, and treatment options. Students work alongside certified and licensed medical laboratory professionals and receive supervised instruction while operating instruments and performing testing and other related activities to support patient care.

#### Student Didactic and Laboratory: June to December

Didactic and Laboratory consists of two class periods each day including lectures and laboratory work. Classes meet Monday through Friday, and each course period is 3 ½ hours. Courses are taught on a rotational schedule and include:

**Body Fluids** 

Immunohematology (Blood Bank) Molecular Diagnostics

Clinical Chemistry Parasitology
Hematology Seminar

Hemostasis and Thrombosis (Coagulation)

Special Chemistry

Immunology (Immunopathology)

Microbiology (Bacteriology/Mycology)

Virology

# **Clinical Laboratory Rotations: January to June**

Clinical rotations meet 8 hours each day Monday through Friday, during which students work alongside licensed medical laboratory professionals in every clinical pathology department to learn how to apply the theoretical knowledge they learned in the didactic portion of the program. Students are evaluated on their abilities in a clinical setting and on correlation of laboratory results with disease states. Students also complete checklists, practical, and affective evaluations. Rotations include Core Lab (Chemistry, Hematology, Hemostasis & Thrombosis, Urinalysis, and Body Fluids), Microbiology (including Mycology), Virology, Blood Bank, Immunopathology, Special Chemistry, Molecular Infectious Diseases, Molecular Genetics, Specimen Receiving, and Phlebotomy.

#### **Student Assessment**

Grading Policies

Definitions:

- *Course:* Any portion of the program that includes instruction, has its own syllabus with grading criteria, and is identified as a discrete unit of instruction on the program calendar.
- Transcript grade: Several related courses may be combined for one transcript grade. Individual courses are co-requisites for the final transcript grade. When evaluating acceptable academic progress in the first semester, course grades are considered independently of the final transcript grade.

• *Practicum:* Also called rotations. This portion of the program involves time spent in the patient care laboratory and typically takes place during the second semester.

The grading scale is as follows:

Scale	Grade	GPA	
95-100%	A	4.0	
90-94%	A-	3.5	
85-89%	В	3.0	
80-84%	B-	2.5	
75-79%	С	2.0	
<75%	F - FAILURE	0	
Р	Pass - Any course with a "P" grade is not calculated into the grade po	int average.	
F	Fail - Any course with an "F" grade is not calculated into the grade point average. However, the course must be repeated and passed to graduate.		
I	Incomplete - May be used at the discretion of the instructor in those cases in which the student is not able to complete work in the normal time. In those instances, the student and instructor develop a written plan for an extension to provide work by a specific date that falls within the period of time specified by the relevant program's requirements (but in no circumstances greater than one month). An "I" that is not replaced by a letter grade within the period of time specified by the relevant program's requirements, due to unsatisfactory completion of the student's plan, will be changed to an F after the period specified by the program (a period not to exceed one month). Any course with an "I" grade is not calculated into the grade point average. Once a grade is assigned to the course (when conditions are met that allow for the removal of the "I" and assignment of a final grade), that grade will factor into the student's GPA.		
W±	Withdrawal – Utilized when a student leaves the course due to an approved leave-of-absence or withdraws from the school prior to the scheduled completion of a course. Any course with a "W" grade is not calculated into the grade point average.		
R	Repeat - Some programs allow students to repeat courses. In those programs, for any course that is repeated, a Repeat will be provided as the grade for the first attempt at the course. Any course with an "R" grade is not calculated into the grade point average. However, courses will be considered hours / credit hours attempted for the purpose of determining maximum time frame. Please refer to each program's student handbook for information about whether students are allowed to repeat courses in any given program.		

- <u>Lecture/Student Laboratory (June December)</u>: Students must attain a minimum final grade of 75% in each course. Courses with both a lecture and student laboratory will have a final grade that weights activities for both. Course syllabi will outline weights and activities/assessments for both.
- <u>Patient Laboratory / Clinical Practicum (January June):</u> The clinical practicum grade consists of three components:
  - o Technical/Performance
  - o Theory
  - o Behavioral Evaluation (minimum of 10% of total grade)

A minimum grade of 75% is required for both the technical and theory portions of the practicum. A minimum grade of 75% is also required for the behavioral evaluation in each rotation.

• <u>Exit Exam:</u> Students must pass a final comprehensive exam at the end of the program year. Students have three attempts to pass the exam with a minimum passing score of at least 75%.

#### **Transcript Grades**

Upon completion of the program, an official transcript is sent to the State of Tennessee Medical Laboratory

Board or other state licensing board, the American Society of Clinical Pathology Board of Certification or other certification organization, and, for 3+1 students, the affiliated university or college granting the baccalaureate degree. Affiliated universities or colleges incorporate VUMC transcript grades into the transcript of the affiliated school based on that school's curriculum.

#### Satisfactory Academic Progress (SAP)

Students are required to maintain established program standards of competence and knowledge. An overall grade of 75% in each course, including the lecture/student laboratory and clinical practicum, is required for the successful completion of the course. Students who do not meet this requirement are removed from Satisfactory Academic Progress status and subject to a range of academic remedial actions, including dismissal from the program, as outlined in this catalog under the policies of the VUMC Center for Programs in Allied Health.

Advanced placement credits are not allowed. The program and all related courses must be completed in their entirety for a transcript to be created and given. Students must successfully complete all components of the program within the 13 months of the program and in the order presented. The Program Advisory Committee reserves the right to extend a student's training to make up for a deficit in a single course, but this remediation is not to extend training more than five (5) months from the end of the program year.

As part of the Academic Probation, the student must independently review presentations and other materials from the deficient coursework for a period of no more than two (2) weeks. During this time, the student will meet with the program director, education coordinator, and the student support services manager to identify issues and discuss ways to improve their grades. The student will not be given time away from the typical program coursework or classes to complete this remedial work. The student is not allowed to be tardy or absent during this two-week period unless an emergency justifies this tardy or absence. At the end of the two-week review period, the student will take a comprehensive exam based on the material from the deficient course. The grade from this comprehensive exam will replace the previous course grade. If the grade is less than 75%, the student will be dismissed from the program.

If a student does not achieve a minimum grade of 75% in a second course, a clinical rotation, or a behavioral evaluation, s/he is dismissed from the program.

# **Graduation/Completion Requirements**

- Students must achieve an overall minimal grade of 75% in all courses.
- Students must achieve a minimum of 75% on all Behavioral Evaluations.
- Students must pass their final comprehensive exam at the end of the year with a 75% or higher.

Students must pay tuition and fees in full.

Upon successful completion of the program, students are eligible to sit for exams to receive national certification. Upon receipt of national certification by a recognized national agency, students become eligible for licensure from the State of Tennessee as a Medical Laboratory Technologist. Successful completion of the Program is not contingent upon passing of any national certification exam.

#### Code of Conduct

In addition to the VUMC Code of Conduct, students in the Medical Laboratory Science Program are bound by standards of conduct specific to their profession. Adherence to the VUMC Code of Conduct and the ASCLS Code of Ethics is required of students at all times.

ASCLS Code of Ethics

This code of ethics by the American Society for Clinical Laboratory Science (ASCLS) has been adopted as an official part of the program as well as the profession. Students enrolled in the program are expected to abide by this code and the following regulations.

"As a Medical Laboratory Professional, I pledge to uphold my duty to Patients, the Profession and Society by:

- Placing patients' welfare above my own needs and desires.
- Ensuring that each patient receives care that is safe, effective, efficient, timely, equitable and patient- centered.
- Maintaining the dignity and respect for my profession.
- Promoting the advancement of my profession.
- Ensuring collegial relationships within the clinical laboratory and with other patient care providers.
- Improving access to laboratory services.
- Promoting equitable distribution of healthcare resources.
- Complying with laws and regulations and protecting patients from others' incompetent or illegal practice
- Changing conditions where necessary to advance the best interests of patients."
  - ASCLS Code of Ethics -- http://www.ascls.org/about-us/code-of-ethics

A student will be placed on Behavioral Probation if s/he earns less than 75% on a behavioral evaluation. If s/he earns less than 75% on a second behavioral evaluation or is already on academic probation, s/he is dismissed from the program.

#### **Equipment List**

Agglutination viewers

Arkray Aution Max AX-4280

**Bacti-Cinerators** 

Beckman Table-top Centrifuge

Differential counters

Helena Laboratories Cascade M Hemocytometers

Iris IQ200 Elite

Marsters Tube Incubator Microhematocrit centrifuge Micro-Pipetors

Microscopes

Miscellaneous lab supplies such as timers, hand counters, water baths, centrifuges, vortexes and tube mixers

Phlebotomy Arms

Refractometers

Sedimentation racks

Serofuges

Siemens PFA-100

Volumetric and serological pipets

VWR Scientific Bacteriology incubator and cabinet

This catalog contains only a summary of program policies and procedures. Students should refer to the program/student handbook for additional information.

# NUCLEAR MEDICINE TECHNOLOGY

# **Program Description**

The Vanderbilt University Medical Center (VUMC) Program in Nuclear Medicine Technology (NMT) is a 52-week training program in clinical nuclear medicine technology that was formally established in 1979 as a program in allied health. This program is designed for students who have either completed a minimum of three years pre-radiologic technology work in an affiliated university or have completed their bachelor's degree in a related science field. The VUMC NMT program is approved as the fourth-year externship in a baccalaureate degree program at Austin Peay State University in Clarksville, Tennessee and at Middle Tennessee State University in Murfreesboro, Tennessee.

The VUMC NMT program is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology (JRCNMT) and prepares graduates for certification as nuclear medicine technologists. Students receive training in atomic and nuclear physics, radiochemistry and nuclear pharmacy, patient care and nursing, radiation safety, radiobiology, instrumentation and computer applications, as well as clinical nuclear medicine procedures. Didactic coursework and clinical rotations are scheduled Monday through Friday. Clinical rotations are scheduled in multiple departments within VUMC and VCH, as well as the Vanderbilt Heart and Vascular Institute (VHVI) and the Veterans Administration (VA) Hospital in Nashville. Clinical rotations include general and pediatric nuclear medicine, PET, nuclear cardiology and nursing, as well as nuclear pharmacy and in vitro procedures. Program officials include a Program Director, Medical Director and Clinical Coordinator.

#### Licensure/Certification/Credentialing

Upon graduation from the program, students are awarded a certificate from the Center for Programs in Allied Health at Vanderbilt University Medical Center and are eligible to sit for the national board certification exams. Verification of completed hours and transcripts of grades are provided to affiliate universities (Austin Peay State University and Middle Tennessee State University) for completion of a baccalaureate degree.

#### **Program Costs**

Application Fee \$50 + Tuition \$4,500 + Books \$1,045 & Fees \$3,222 = Total Cost \$8,794

#### **Program Length**

The VUMC NMT provides a total 51 semester credit hours in 52 weeks of full-time, didactic and clinical study. Courses typically begin in late August and continue for 12 months, with graduation the following August.

# **Program Delivery Method**

Residential, no online or distance education component.

# Mission, Credo and Goals

In step with the mission and goals of VUMC, the mission and goals of the VUMC Nuclear Medicine Technology Program are to educate knowledgeable, talented, and compassionate students to use their acquired skills to provide the highest quality of patient care in their chosen profession of nuclear medicine.

# Program Goals Include:

- Equip students with the knowledge, skills, and attitude they need to perform clinical nuclear medicine procedures effectively and safely.
- Facilitate an attitude of continuous learning—including both professional development in the field and/or continuance of higher education in the same or related fields.
- Instill in students an attitude of acceptance and adoption of changing trends in the profession.

• Prepare students with capacity to accept leadership roles within the clinical, managerial, educational, or related settings.

# **Programmatic Accreditation/Approvals**

The Nuclear Medicine Technology Program is accredited by the Joint Review Committee for Educational Programs in Nuclear Medicine Technology (JRCNMT). The JRCNMT promotes appropriate standards of quality for postsecondary educational programs in nuclear medicine technology. Accreditation is granted to educational programs that meet or exceed these threshold standards, and JRCNMT conducts periodic on-site reviews of the program. Graduates of the Nuclear Medicine Technology program are eligible for the national certification examinations administered by the Nuclear Medicine Technology Certification Board (NMTCB), and the American Registry of Radiologic Technologists (ARRT).

#### JRCNMT:

Joint Review Committee for Educational Programs in Nuclear Medicine Technology

2000 W. Danforth Road, Ste. 130, #203 | Edmond, OK 73003

Phone: 405.285.0546 Fax: 405.285.0579

E-mail: mail@jrcnmt.org

NMTCB:

Nuclear Medicine Technology Certification Board

3558 Habersham at Northlake, Building I Tucker, GA 30084-4009

Phone: 404.315.1739 Fax: 404.315.6502

E-mail: board@nmtcb.org

ARRT:

American Registry of Radiologic Technologists 1255 Northland Drive | St. Paul, MN 55120

Phone: <u>651-687-4048</u> Email: www.arrt.org

### Program Academic Calendar

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Nuclear Medicine Technology Program			
2022-2023 Academic Calendar			
August 22, 2022 Start Date			
August 22-26, 2022	Orientation		
September 5, 2022	Labor Day		
November 24 - 25, 2022 Thanksgiving Break			
December 19, 2022 - January 2, 2023	Winter Break		
April 24-28, 2023	Spring Break		
May 29, 2023	Memorial Day		
July 4, 2023 Independence Day			
August 18, 2023 Projected Graduation Date			

#### Annual NMTT Conference

Students are required to participate in the annual Nuclear Medicine Technologists of Tennessee (NMTT) professional society meeting. This conference is typically scheduled in March.

# Program Faculty/Staff

# Jenny Pafford, Ed.D., M.S., CNMT

**Program Director** 

Ed.D., Higher Education Leadership and Policy, 2019, Vanderbilt University; M.S., Health Physics, 2012, Vanderbilt University; B.S., Medical Imaging Technology, 2009, Belmont University, Nashville, TN; Certificate, Nuclear Medicine Technology, 2009, Vanderbilt University Medical Center - Allied Health, Nashville, TN; Certification, NMTCB, 2009, Nuclear Medicine Technology Certification Board

# Gary Smith, M.D.

**Medical Director** 

Diplomate, 1987, American Board of Internal Medicine; Diplomate, 1989, American Board of Nuclear Medicine; MD, 1983, Univ. of Texas Health Science Center – Southwestern Med. Sch., Dallas, TX; MS, 1983, University of Texas Health Science Center-Southwestern Medical School, Dallas, TX; BS, Engineering Science, 1978, University of Tennessee, Knoxville, TN

# Jennifer Kiddoo, B.S., CNMT, RT(N)

**Clinical Coordinator** 

B.S., Radiologic Technology, 2015, Austin Peay State University; Certificate, Nuclear Medicine Technology, 2015, Vanderbilt University Medical Center – Allied Health; Certification, NMTCB, 2015, Nuclear Medicine Technology Certification Board; Certification, RT(N), 2015, American Registry of Radiologic Technologists

#### Jared Grice, DMP

Instructor

Diplomate, 2017, American Board of Radiology (Diagnostic Medical Physics); DMP, 2016, Vanderbilt University; B.S., Physics, 2012, University of Missouri, Columbia, MO

#### Christopher Helstern, PhD, MS, CHP

Instructor

PhD, Physics, University of Tennessee, 2020; American Board of Health Physics, Certified Health Physicist, 2017; M.S., Physics, 2014, University of Tennessee, Knoxville, TN; B.S., Physics, 2009, University of California, Irvine, CA

### **Program Advisory Board**

Member Name	Credentials	Title
Jenny Pafford,	EdD, MS, CNMT	NMT Program Director
Jennifer Kiddoo,	CNMT, RT(N)	NMT Clinical Coordinator
Gary Smith	MD	NMT Medical Director
Dawn Shone	BS, CNMT	Manager of MRI/US
James Patton	PhD	Former Program Director; Professor Emeritus
Aaron Jessop	MD	Section Chief, Nuclear Medicine
Jeremy J. Kennard	MS, CNMT, RT(N)(CT)	Director, Radiology
Marni Gardner	DPh	Nuclear Pharmacy Manager; NMT Instructor / Clinical Preceptor
Paul Searfoss	BS, CNMT, RT(N,CT)	Manager of NM/CT
Pam Hodges	BS, CNMT	Supervisor, Nuclear Medicine; NMT Clinical Preceptor
Brandon Moore	BS, CNMT, RT(R)(N)(CT)	Medical Imaging Supervisor; NMT Technical Coordinator
Ashton Evans	BS, CNMT	Nuclear Medicine Technologist; NMT Clinical Preceptor

Amy Lebkuecher	MS, RT(R)(T)	Chair, Allied Health Sciences
Eric Miller	M.Ed.	Advising Manager – Health Sci.
Diana Arrington	BS, CNMT	PET/NM Applications Specialist
Kris Yarnell	CNMT, RT(R)	Nuclear Medicine Technologist
Roxy Kimes	MBA, CNMT	Radioligand Specialist

### Admissions

Qualified applicants must have a bachelor's degree, preferably in a related science field (i.e., biology, chemistry, physics, radiologic technology), from an accredited college or university, or must be eligible for that degree at the completion of the program through an affiliated university.

### Admission Requirements

VUMC requires that all applicants to the allied health certificate programs must have a high school diploma, GED, or recognized equivalent. A high school diploma or recognized equivalent comply with the THEC requirement. Further, VUMC allows an applicant to submit a copy of a post-secondary degree (i.e., Associate's, Bachelor's or Master's) in lieu of a copy of the high school diploma.

For the Nuclear Medicine Technology program, in addition to the minimum requirements listed above, qualified applicants with a bachelor's degree from an accredited college or university are eligible for appointment. Students who have not yet received a bachelor's degree must be enrolled at an affiliated university and must meet all other admission requirements.

Candidates for admission to the program must meet the following requirements (in addition to the minimum requirements listed above):

- Baccalaureate degree from an accredited college or university OR eligibility for that degree at the completion of the program at one of the affiliate universities. Applicants in programs at affiliated schools must have satisfactorily completed at least three years of college credit.
- Prerequisite coursework/content (or corresponding content equivalent):
  - Physics 1 and 2 (non-calculus based or higher) with lab
  - Chemistry 1 and 2 with lab
  - Human Anatomy and Physiology 1 and 2 with lab
  - College Algebra, or higher
  - Written communications series (i.e., Eng Comp 1 and 2)
- A minimum overall grade point average of 3.0 is highly recommended, but GPA's lower than 3.0 may be considered.
- Applicants should be of good moral character, personable, and able to relate to patients.

### **Application Procedures**

A completed application with supporting materials must be submitted by March 15th of the application year and includes:

- 1. Application with fee (link available on NMT Program website)
- 2. Three letters of reference (link available on NMT Program Website through application)
- 3. Official transcripts from all higher education institutions attended
- Optional Clinical observation form completed by a clinical supervisor documenting 16 hours of clinical nuclear medicine observation experience (form available on the NMT Program website) – see details below.

To apply, prospective students should refer to electronic submission instructions posted on Program website.

### Clinical Observation Experience

As part of the preparation for application to the VUMC Nuclear Medicine Technology Program, all applicants are encouraged to spend 16 hours engaged in observation at a clinical nuclear medicine department. The purpose of this experience is to allow applicants an opportunity to observe staff, as well as patients, in order to learn the role of a Nuclear Medicine Technologist and of other staff within the Nuclear Medicine Department. To arrange clinical observation hours at VUMC, applicants should contact the Program Director.

To include clinical observation experience as part of an application, applicants should use the Clinical Observation form posted on the Program's website. The form should be completed by a clinic supervisor or appropriate departmental administrator. While this is not a required component of application, it is highly recommended.

#### **Applicant Interviews**

Applicants who meet the requirements for admission may be invited to interview for the program. Each interviewee meets individually with the Admissions Committee consisting of the Program Director, Clinical Coordinator, and other program affiliated members (i.e., institutional staff and program faculty).

### Student Selection and Acceptance

Student selection is conducted by the Admissions Committee consisting of the Program Director, Clinical Coordinator, and other program affiliated members (i.e., institutional staff and program faculty). Selection is based on academic background, related work or training, references, and interview. Applicants selected for admission to the program must successfully complete a background check before matriculation into the program.

### **Academic Program and Assessment**

Curriculum Sequence/Program Delivery

A series of courses are offered in the program which are divided into three semesters (phases). Course content includes:

- Nuclear Medicine Clinical Rotations (Phases 1-3)
- Patient Care
- Radiation Safety
- Basic Sciences
- Nuclear Medicine Physics and Instrumentation
- Clinical Procedures
- Clinical Practice
- Imaging Informatics
- Radiochemistry and Radiopharmacy
- Professional Development
- Research Methods
- Board Review

Students complete clinical rotations in nuclear pharmacy, nuclear medicine and cardiac imaging, PET/CT imaging, and nursing within various departments located at VUMC Adult and Children's Hospitals as well as the VA Hospital under the supervision of certified preceptors.

Clinical rotations and lectures may be supplemented by special programs and seminars in the Department of Radiology or the Office of Health Sciences Education in an effort to ensure a well-rounded educational experience in Nuclear Medicine Technology.

Students also participate in the annual Nuclear Medicine Technologists of Tennessee (NMTT) professional society meeting. This conference is typically scheduled in early spring. Students present their own research at the conference through either a poster or oral presentation. Students also attend a comprehensive board review at the conference—as well as scheduled lectures.

### Program Coursework

Course	Lecture	Lab	Clinical	Total Semester Credit Hours
Clinical Rotations I		0	5.98	5.5
Basic Sciences	3.07	0		3
Patient Care in Radiology	1.33	0		1
Physics and Instrumentation I	3.07	0		3
Radiation Safety and Protection	2.33	0		2
Radiochemistry and Radiopharmacy I	3.07	0		3
Professional Development I	1.07	0		1
Clinical Procedures	2	0		2
Imaging Informatics	1.2	0		1
Research Methods I	0.73	0		0.5
Clinical Rotations II		0	9.24	9
Physics and Instrumentation II	2.53	0		2.5
Professional Development II	0.93	0		0.5
Radiochemistry and Radiopharmacy II	1.93	0		1.5
Research Methods II	1.27	0		1
Advanced Clinical Practice	1	0		1
Clinical Rotations III		0	11.73	11.5
Board Review	2	0		2
Total Semester Credit Hours			51	

### Course Descriptions

### **Basic Sciences**

This course is designed to be taught in parallel with the Clinical Procedures course and focuses primarily on aspects of basic sciences that are directly applicable to understanding clinical nuclear medicine procedures—including anatomy and physiology, basic organic chemistry, biochemistry, and molecular biology. Various diseases and disorders will be discussed, and the clinical procedures useful in the diagnosis of these pathological conditions in each primary organ system will be identified. In addition to diagnostic procedures, techniques and applications of radionuclides for radiotherapy procedures are also covered. Interpretation of diagnostic images, data, and therapeutic outcomes will also be discussed.

### **Board Review**

This course provides a thorough content review of major topic areas in the field of nuclear medicine

technology with the intent of preparing students to take national board certification exams. In addition, multiple practice board exams are included within this course.

### Clinical Nuclear Medicine Rotations

This clinical nuclear medicine experience/training consists of a series of clinical rotations using the clinical nuclear medicine facilities at Vanderbilt University Medical Center, Vanderbilt Children's Hospital, and the VA Medical Center. Rotations include nuclear pharmacy, and in vitro lab, patient care, cardiac stress testing, general nuclear medicine and positron emission tomography imaging procedures in adults and children, and quality assurance. The imaging rotations are established so that each student is assigned to a single independent work assignment supervised by a board-certified technologist, a radiopharmacist (radiopharmacy rotation), or a radiology registered nurse (nursing rotation). Rotations may be modified as needed during the second set of rotations to address noted deficiencies of specific students. Students receive written evaluations weekly from the supervisory staff. Proficiency testing is accomplished during later rotations in the form of clinical competency requirements.

### **Clinical Practice**

This course serves as an expansion of the Clinical Procedures course content with a primary focus on advanced critical-thinking, problem-solving, and troubleshooting strategies for various procedures and scenarios within the clinic.

#### **Clinical Procedures**

This course is designed to be taught in parallel with the Basic Sciences course and focuses primarily on the technical and operational aspects of performing clinical nuclear medicine procedures—including verification of orders, patient preparation and contraindications, explanation of procedures, administration of appropriate radiopharmaceutical by the proper route, preparation of proper instrumentation and auxiliary equipment as indicated by protocol, processing of images or data, and analysis of quality. Various clinical procedures useful in the diagnosis of pathological conditions in each primary organ system will be identified. In addition to diagnostic procedures, techniques and applications of radionuclides for radiotherapy procedures are also covered.

### <u>Imaging Informatics: Nuclear Medicine Computer Applications</u>

This course provides an introduction to medical imaging informatics for nuclear medicine including computer terminology, languages, and equipment as well as description of current nuclear medicine data acquisition, processing, storage, and image distribution systems. Topics covered include computer analysis of laboratory sample data and data from static, dynamic, and gated studies.

#### **Patient Care**

This course provides an overview of the basics of patient care including aseptic techniques, intravenous catheter placement and injections, blood drawing, urinary catheters, moving and lifting patients, ECG monitoring and gating, use of infusion pumps (i.e., gravity IV and syringe pumps), fasting blood sugar and use of glucometers, obtaining and assessing patient history and condition, communication with patients and staff, and the handling of emergencies. Within this course, students obtain venipuncture competencies. Topics related to organizational structure of healthcare teams, medical ethics, patient confidentiality, and HIPPA responsibilities are presented. The course also includes discussions of health records and health information management.

### Physics & Instrumentation

This course begins with an overview of the basics of nuclear medicine physics, including the structure of the atom, radioactive decay processes and laws, and interactions of radiation with matter. This is followed by a

discussion of the topics related to radiation exposure and absorbed dose. The next sections discuss the concepts of radiation detection including gas-filled ionization detectors and scintillation detectors. The remaining sections are devoted to in-depth discussions of imaging instrumentation including scintillation cameras, single photon emission computed tomography (SPECT), positron emission tomography (PET), and x-ray computed tomography (CT) systems. The final section is covers the theory and performance of quality assurance of dose calibrators, scintillation counting systems, and planar, SPECT, PET, and CT systems with emphasis on identifying and solving problems.

### **Professional Development**

This course consists of special topics that broadly address professionalism in healthcare, interpersonal communication skills, interprofessional collaboration, ethics, adherence to the scope of practice and performance standards, certification processes and continuing education. Ongoing discussion and reflections on clinical experiences and conflict resolution is emphasized.

### **Radiation Safety**

This course covers various topics related to radiation safety in nuclear medicine including protection from external and internal sources of radiation, biological effects of radiation exposure, health physics instrumentation, identification and control of contamination, patient therapy dose considerations, response to radiation related emergencies, and federal and state regulations.

### Radiochemistry and Radiopharmacy

This course provides a basic review of chemistry, including chemical bonding, solutions, proteins, carbohydrates, lipids, and chelates. Also included is an introduction to radionuclide chemistry, including radionuclide production, labeling techniques, chromatography, isotopes, and technetium chemistry. The organization, recordkeeping responsibilities, quality control procedures, and radiopharmaceutical preparations for which the radiopharmacy is responsible are also presented. In addition, laboratory procedures and techniques including radiopharmaceutical kit preparation, generator handling, dose calculations and calibrations, and handling of long-lived radioisotopes are taught.

#### **Research Methods**

This course provides an overview of common research methods in the health sciences. Throughout the course, students will identify a salient research topic in the field of nuclear medicine, design and complete their own research project, and prepare their projects for presentation. Projects will be presented at an annual professional society conference in either poster or oral format.

### Assignment of Credit Hours by Affiliated Universities

The VUMC Nuclear Medicine Technology Program provides official verification of each student's hours completed and a transcript of grades to the affiliate university in which the student is enrolled (Austin Peay State University and Middle Tennessee State University). These VUMC documents are intended as verification of the VUMC program experience. Each university's methods of assigning credit to the VUMC NMT program experience, as well as the number of college credits ultimately awarded to each student, are determined by each university independently from VUMC, and according to the university's own policies.

### **Student Assessment**

### **Grading System**

Scale	Grade	GPA
95-100%	A	4.0
90-94%	A-	3.5

85-89%	В	3.0	
80-84%	B-	2.5	
75-79%	С	2.0	
<75%	F - FAILURE	0	
Р	Pass - Any course with a "P" grade is not calculated in	to the grade point average.	
F	Fail - Any course with an "F" grade is not calculated in repeated and passed to graduate.	to the grade point average. However, the course must be	
I	complete work in the normal time. In those instances extension to provide work by a specific date that falls requirements (but in no circumstances greater than of the period of time specified by the relevant program's student's plan, will be changed to an F after the period month). Any course with an "I" grade is not calculate	ructor in those cases in which the student is not able to the student and instructor develop a written plan for an within the period of time specified by the relevant program's ne month). An "I" that is not replaced by a letter grade within a requirements, due to unsatisfactory completion of the d specified by the program (a period not to exceed one d into the grade point average. Once a grade is assigned to the moval of the "I" and assignment of a final grade), that grade	
W±	Withdrawal – Utilized when a student leaves the course due to an approved leave-of-absence or withdraws from the school prior to the scheduled completion of a course. Any course with a "W" grade is not calculated into the grade point average.		
R	Repeat - Some programs allow students to repeat courses. In those programs, for any course that is repeated, a Repeat will be provided as the grade for the first attempt at the course. Any course with an "R" grade is not calculated into the grade point average. However, courses will be considered hours / credit hours attempted for the purpose of determining maximum time frame. Please refer to each program's student handbook for information about whether students are allowed to repeat courses in any given program.		

Students who do not complete required work or hours in a course will be assigned a failing grade for the course.

#### **Clinical Rotation Evaluations**

Students receive a clinical evaluation from their respective preceptor at the end of each clinical rotation week. The Program Director and/or the Clinical Coordinator will review these evaluations with each student. These evaluation conversations allow for frequent and constructive feedback to students on their professional development. These evaluations are counted toward course grades in the Clinical Rotations course series as well as the review of Satisfactory Academic Progress.

### Satisfactory Academic Progress (SAP)

Each students' academic progress is evaluated at the end of each semester. A student is considered to be maintaining satisfactory academic progress (SAP) by maintaining a 75 percent academic average in didactic coursework and in clinical rotations. In addition, students must have satisfactory attendance in order to maintain satisfactory academic progress.

Prior to the determination of SAP status, the student, the Program Director and the Clinical Coordinator meet to discuss the student's progress. These meetings include discussion of grades in didactic courses, evaluations and performance in clinical rotations, radiation dose reports, absences, contact hours, professionalism and conduct, etc. Students are given the opportunity to discuss any questions or concerns they may have related to their academic progress. Following this meeting the Program Director and the Clinical Coordinator determine whether the student is maintaining Satisfactory Academic Progress.

### **Graduation/Complation Requirements**

In order to graduate, students must receive a passing grade of 75 or better in all didactic courses, including clinical rotations, and complete a list of clinical competency evaluations ("check-offs"). A complete list of the Clinical Competencies is included as Appendix A. Students must also complete at least 1,626 clock hours during

the 12-month program. In addition to hours, total days attended are also monitored. Students are allotted a maximum of 10 personal days, in addition to the scheduled holidays.

### **Code of Conduct**

Adherence to the VUMC Code of Conduct, the VUMC Center for Programs in Allied Health Honor Code and the Vanderbilt Nuclear Medicine Technology Program Honor Code is required of students at all times.

Vanderbilt Nuclear Medicine Technology Program Honor Code

As professional students, it is expected that the Vanderbilt Nuclear Medicine Technology Program Honor Code be followed at all times. All projects submitted are presumed to be the student's own work unless appropriate credit to others is given when submitted. The following are considered violations of the Honor Code and will result in disciplinary action up to and including dismissal from the program:

- Cheating on an examination, test or written project
- Plagiarizing (incorporating into one's own work the work of another without identifying the source) in an assigned paper, report or project\
- Submitting work prepared by another person as one's own (including use of texts, papers, computer programs, or other class work prepared by commercial or noncommercial agents)
- Submitting work prepared for another rotation without the specific prior authorization of the Program Director
- Falsification of results of study and research

### **Equipment List**

### Clinical Nuclear Medicine Equipment available for instruction at VUMC

- GE Ventri-VCT dual -head cardiac scintillation camera with GE 32 slice CT scanner
- GE Discovery 670 dual-head scintillation camera with 16 slice CT scanner
- GE Infinia dual-head scintillation camera with single slice Hawkeye CT scanner
- GE Magicam dual-head scintillation camera
- Philips Skylight dual-head scintillation camera GE Advance PET scanner with 8 slice CT scanner
- GE Advance mobile PET scanner with 16 slice CT scanner
- GE Lunar DEXA Bone Densitometry scanning system
- GE PET Trace 16 MeV Cyclotron
- GE Discovery MI PET Scanner
- Capintec dose calibrators with drawing stations (x4)
- Captus 3000 Thyroid uptake probe with well counter
- Packard Cobra automated sample well counting system
- Capintec CRC-25w single-well counter
- Ludlum Model 3 GM with pancake probe
- Ludlum Model 23 with integrated frisker
- Treadmill for cardiac stress testing 2 multi-lead EKG systems
- Fully equipped state-of-the-art sterile clean room Radiopharmacy
- Fully equipped invitro lab

# Clinical Nuclear Medicine Equipment available for instruction - Veteran's Administration Hospital

• GE Infinia dual-head scintillation camera with Hawkeye-4 CT scanner

- GE Optima NM640 dual-head scintillation camera with 4 slice CT scanner
- GE Discovery NM630 dual-head scintillation camera
- GE Discovery NM530c solid-state CZT detectors, focused collimators
- GE Case cardiac stress test system with treadmill and multi-lead EKG
- GE Xeleris nuclear medicine work station
- GE Lunar DEXA Bone Densitometry scanning system
- BIODEX AtomLab 960 thyroid uptake prob and well counter
- Capintec CRC-15R dose calibrator
- Capintec CRC-55tR dose calibrator
- Biodose patient dose drawing software
- GE Advance PET scanner with 16 slice CT scanner
- Ludlum model 3 survey meters with pancake detectors
- Ludlum Model 2200 scaler with well counter detector
- Automated multi-sample gamma counter

### Clinical Nuclear Medicine Equipment available for instruction – Vanderbilt Heart & Vascular Institute

- Siemens C.Cam dual head Cardiac gamma camera
- Spectrum Dynamics D-SPECT Cardio, solid-state CZT detectors

# Clinical Nuclear Medicine Equipment available for instruction at VUMC

- GE Ventri-VCT dual -head cardiac scintillation camera with GE 32 slice CT scanner
- GE Discovery 670 dual-head scintillation camera with 16 slice CT scanner
- GE Infinia dual-head scintillation camera with single slice Hawkeye CT scanner
- GE Magicam dual-head scintillation camera
- GE Advance PET scanner with 16 slice CT scanner (Mobile)
- GE Discovery MI PET Scanner
- GE Lunar DEXA Bone Densitometry scanning system
- GE PET Trace 16 MeV Cyclotron
- GE Xeleris workstation (x4)
- Capintec dose calibrators with drawing stations (x3)
- Captus 3000 Thyroid uptake probe with well counter (x2)
- Hidex automatic gamma counter
- Ludlum Model 3 GM with pancake probe (3)
- Ludlum Model 26-1 with integrated frisker (2)
- Ludlum Model 14C GM general purpose detector
- Treadmill for cardiac stress testing 2 multi-lead EKG systems
- Fully equipped state-of-the-art sterile clean room Radiopharmacy
- Fully equipped invitro lab

### Clinical Nuclear Medicine Equipment available for instruction – VCH

- Philips Skylight dual-head scintillation camera
- GE Xeleris workstation
- Capintec dose calibrator with chamber and well counter
- Ludlum Model 3 GM with pancake probe

# Clinical Nuclear Medicine Equipment available for instruction - Veteran's Administration Hospital

- GE Infinia dual-head scintillation camera with Hawkeye-4 CT scanner
- GE Optima NM640 dual-head scintillation camera with 4 slice CT scanner
- GE Discovery NM630 dual-head scintillation camera
- GE Discovery NM530c solid-state CZT detectors, focused collimators
- GE Case cardiac stress test system with treadmill and multi-lead EKG
- GE Xeleris nuclear medicine workstation
- GE Lunar DEXA Bone Densitometry scanning system
- BIODEX AtomLab 960 thyroid uptake prob and well counter
- Capintec CRC-15R dose calibrator
- Capintec CRC-55tR dose calibrator
- Biodose patient dose drawing software
- GE Advance PET scanner with 16 slice CT scanner
- Ludlum model 3 survey meters with pancake detectors
- Ludlum Model 2200 scaler with well counter detector
- Automated multi-sample gamma counter

### Clinical Nuclear Medicine Equipment available for instruction – Vanderbilt Heart & Vascular Institute

- Siemens C.Cam dual head Cardiac gamma camera
- Spectrum Dynamics D-SPECT Cardio, solid-state CZT detectors
- Quinton and treadmill with EKG System
- Capintec CRC-15R dose
- Atom Lab 50 well-counter
- Ludlum Model 3 GM with pancake probe.

This catalog contains only a summary of program policies and procedures. Students should refer to the program/student handbook for additional information.

# PERFUSION PROGRAM

# **Program Description**

Perfusion involves the study of physiology, pathology, and associated equipment used to support and/or assume the function of the heart and/or lungs during medical procedures. The perfusionist prepares and operates the heart-lung machine and other sophisticated equipment as directed by healthcare physicians. The perfusionist measures various blood and other parameters to identify appropriate mechanical, pharmacological, and thermal manipulation to maintain tissue viability. To perform these tasks the perfusionist must have a thorough understanding of both the physiology and anatomy of respiratory and circulatory systems and be able to operate complex equipment. Additionally, the perfusionist must be capable of handling stressful situations, pay great attention to detail, communicate effectively, and be willing to stay abreast of new developments in the profession.

The Vanderbilt Perfusion Program was founded in 1979. The program is directed in collaboration with the Vanderbilt Heart and Vascular Institute.

### Licensure/Certification/Credentialing

Upon completion of the program graduates receive an accredited Certificate in Cardiovascular Perfusion Technology that qualifies graduates to apply for and take the Perfusion Basic Sciences Examination and the Clinical Application in Perfusion Exam administered by the American Board of Cardiovascular Perfusion (ABCP).

#### **Program Costs**

Application Fee \$100 + Tuition \$39,000 + Books & Fees \$8,469 = Total Cost \$47,569

### **Program Length**

The VUMC Perfusion program requires completion of 96 semester credits/3484 total clock hours/92 weeks. The program typically begins in early August, and students graduate with their cohort in mid- May, after 22 months of full-time study.

### **Program Delivery**

Blended: The Perfusion Program includes both residential and distance learning components.

### **Program Mission, Credo and Goals**

### **VUMC Perfusion Program Mission Statement**

Through the dedication to the cardiovascular perfusion profession and patient care, the Perfusion Program will inspire its students to become leaders in independent thinking in the promotion of medical evolvement. Our students will recognize the commitment to life-long learning and the benefit of interdisciplinary collaboration to provide world class patient care to each and every patient not only today but in the future.

# **VUMC Perfusion Program Philosophy**

It is the philosophy of the program that all patients have a right to receive and deserve competent and compassionate not only cardiac care but medical care. Perfusionists must possess skills and knowledge necessary to operate the heart lung machine (HLM) during the care of a patient who requires cardiac and/or pulmonary support. The perfusionist must possess critical thinking skills, as well as professional collaboration skills. The perfusionist must not only be able to operate the HLM but they must understand the physiological implications of the management of all aspects of cardiovascular perfusion. The program is committed to providing the healthcare community with perfusionists who are competent, knowledgeable, and compassionate critical-thinking professionals with ability to work well with other medical professionals and with the ultimate goal of delivering safe, efficient, and effective patient care. Perfusionists of this program will understand the value of continuous learning in the promotion of medicine.

### **Program Objectives and Goals**

The VUMC Perfusion Program bases its educational process and strategy on those principles that are essential in preparing students to achieve the ideals of the profession. The Program strives to instill in each student:

- Knowledge, skills and professional attitude necessary to safely and effectively perform clinical perfusion care;
- Concern for others, which carries with it the responsibility of good patient care combined with professional cooperation with fellow students and staff and faculty;
- Desire to strive for new knowledge and to accept and adopt changing trends in the profession;
- Capacity to accept leadership roles, whether in management or education; and
- Interest in the growth and development of the perfusion profession.

**Goal 1:** To prepare entry level perfusionists in core curriculum competencies and clinical competencies as a route to eligibility for certification by the American Board of Cardiovascular Perfusion.

**Goal 2:** To provide a supply of competent entry-level perfusionists to influence the supply and distribution of perfusionists for the nation.

**Goal 3:** To provide the students of the program with a comprehensive and high-fidelity perfusion simulation program.

### **Programmatic Accreditation/Approvals**

The general academic requirements for all perfusion education programs are established by the Accreditation Committee for Perfusion Education (AC-PE), which is responsible for the initial and continuing evaluation of all perfusion education programs. The AC-PE is accredited to so operate pursuant to authority granted by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

The VUMC Perfusion Program is programmatically accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). This accreditation is granted only after recommendation by the Accreditation Committee – Perfusion Education (AC-PE) based on a programmatic review and site visit. Recognition by CAAHEP qualifies the program's graduates for eligibility to apply for and take the Perfusion Basic Sciences Examination and the Clinical Application in Perfusion Exam administered by the American Board of Cardiovascular Perfusion (ABCP).

#### CAAHEP:

Commission on Accreditation of Allied Health Education Programs 25400 U.S. Highway 19 North, Suite 158

Clearwater, FL 33763 Phone: 727-210-2350

Fax: 727-210-2354 www.caahep.org

AC-PE:

Accreditation Committee - Perfusion Education

6663 South Sycamore Street

Littleton, CO 80120 Phone: 303.794.6283

Fax: 303.738.3223 www.ac-pe.org

### Program Academic Calendar

r rogram Academic Calemaar			
Perfusion Program			
2022-2023 Academic Calendar			
Seniors (Class of 2023)			
July 4, 2022 Independence Day			
September 5, 2022	Labor Day		
November 23 - 25, 2022	Thanksgiving Break		
December 19, 2022 - January 3, 2023	Winter Break		
April 24 - May 1, 2023	Spring Break		
May 12, 2023	Projected Graduation Date		

### Program Faculty/Staff

The program officials include a Medical Director, Program Director, Clinical Coordinator, and clinical instructors, all of whom are experts in the field. Key program staff/faculty are:

Ashish Shah, MD, FACS, Medical Director
Anna M. Iulianelli MPS, CCP, BA, BS, Program Director
Mark Meholchick, CCP, LCP, Clinical Coordinator
Judith Stanford, MS, CCP, Instructor

### **Program Advisory Board**

The Perfusion program at Vanderbilt University Medical Center has an active Advisory Committee to assist administration and faculty in fulfilling the program's educational objectives. The committee includes chief perfusionists and graduates from outside medical centers and a community representative, providing a range of voices from the community. All Advisory Committee members are provided an advisory committee guide, which outlines and summaries the program and the responsibilities of the members.

The Advisory Committee convenes annually and addresses a broad range of topics that include the program's mission and objectives; admission policies; curriculum; outcomes; program strength and weaknesses in preparing graduates; current and projected community needs for graduates in the field; annual evaluation of program effectiveness; and student, graduate, clinical affiliate, and employer feedback. Members of the committee review any grievances that require resolution.

Member Name	Credentials	Advisory Position
Anna Iulianelli	MPS, CCP, BA, BS	Program Director
Matthew Warhoover	MS, MMHC, CCP	Chief Perfusionist
Mark Meholchick	BS, CCP, LCP	Clinical Coordinator
Ashish S. Shah	MD	Medical Director
Joey Wilder		Senior Student
Tamara Roberts		DE Specialist
Joey Lepore	BS, CCP, LCP	In-Field Specialist
Nicole Michaud	MS, CCP, CPBM	In-Field Specialist
Phyllis Aycock	BS, CCP, LCP	In-Field Specialist
Roger Dmochowski	MD, MMHC	Chief of Staff
Peggy Valentine	MD	<b>CPiAH Administration</b>
Kristen Smith		<b>CPiAH Administration</b>
Ebony McHaskell	MS	<b>CPiAH Administration</b>
Cassandra Anderson		Student Support Services
Bryan Merville	BS, MS	Public Member
Alex Bennatan	BS, CCP, LCP	Public Member
Jarred Dupree	BS, CCP, LCP	Public Member
Brett Robison	BS, CCP, LCP	Public Member
Chad Smith	MS ,LCP, CCP	Clinical Affiliate
Jose Diaz	MD	Field Specialist

### Clinical Competency Committee

The Clinical Competency Committee consists of the Program Director, Clinical Coordinator and clinical perfusion instructors of the Perfusion Program. The Program Director appoints a chairman of the Clinical Competency Committee and requests periodic meetings for the purpose of evaluating a student's clinical performance. Each student is evaluated by the committee prior to graduation to determine whether the student is clinically competent and meets the minimum requirements of the ABCP.

#### Admissions Committee

The admission committee reviews applications on an annual basis and is composed of different clinical perfusionists who collaborate with the program in clinical education as well as the program director and clinical coordinator. In addition, those members of the admission committee available participate in the

interviews for the final selection of the incoming class. The admission committee meets annually to discuss the entrance requirements for the program as well as the selection process for the program.

#### Admissions

# **Admission Requirements**

All applicants must possess a high school diploma, a high school diploma equivalency, a current Tennessee license in the field for which the training is intended, or postsecondary credit in a degree program.

While prior medical experience is not required for admission to the program, it is highly recommended. Strong candidates in the past have functioned in some capacity in the medical arena for a minimum of one year. This experience has proven to be an asset to them in their understanding of medical terminology and practices, but it is not required.

Academic requirements for admission to the Perfusion program include VUMC's minimum requirements and the following:

- Bachelor's degree from an accredited college or university
- Completion of the following prerequisite coursework:
  - o Biology: First full year, 8 credit hours, 2 semesters with labs
  - o Chemistry: First full year, 8 credit hours, 2 semesters with lab
  - o Physics: First full year, 8 credit hours, 2 semesters with labs
  - Human Anatomy and Physiology: 8 credit hours, 2 semesters with labs
  - o Biochemistry or Microbiology: 4 credit hours with lab
    - Organic Chemistry w/lab
    - Biochemistry w/lab
    - Microbiology w/lab
  - Statistics: 3 credit hours
  - Cumulative GPA of 3.0 in the prerequisite courses

### **Application Procedure**

Prospective students of the Perfusion Program may apply by submitting a completed application form and required supporting materials, as listed below. The application and all accompanying documentation are submitted electronically. The application for admission is posted on the VUMC Perfusion Program website each summer. The following materials must be submitted to be considered:

- 1. Completed application.
- 2. Three (3) professional references from individuals familiar with the applicant's academic and/or professional experience. References will receive the survey upon application submission
- 3. Official transcripts from all institutions of higher learning the applicant has attended (submission instructions for official transcripts can be found on the Perfusion website)
- 4. A non-refundable application fee, made payable to Vanderbilt University Medical Center.
- 5. Applications are accepted from the August 15th (when the application is made available to applicants) through the fall, with a final deadline of October 15<sup>th</sup> of each year. Applications submitted after October 15<sup>th</sup> will not be accepted, and the application fee will be returned.

All applicants meeting the criteria for the program are reviewed and scored by the committee.

### **Applicant Interview**

After submission of a complete application package, qualified candidates are invited to attend an interview with the admissions committee and a tour of VUMC and program facilities. Interviews require 2-3 hours of the applicant's time and are conducted in January of each year. Interviews are a required for admission to the program. An interview schedule is provided to each invited applicant no later than December 23rd each year. Interviews include the following components:

- 1. Four (4) 15-minute, in-person interviews with a panel of Admission Committee members.
- 2. Written essay (30 minutes to write)
- 3. Dexterity test
- 4. Basic Science Exam
- 5. Tour of program facilities (including the simulation lab and classroom facilities), as well as the VUMC campus
- 6. An opportunity to speak with current students in the program.

During the interview, applicants are provided an overview of the program and the selection process, and they are asked about their level of competency with computer skills and learning management systems. Also, applicants should be prepared to discuss during the interview their understanding of a cardiovascular perfusion and the qualities they possess to be a clinical perfusionist.

### **Applicant Selection**

The Perfusion Program seeks to admit applicants that will be successful all aspects of the program. The Admission Committee is committed to selecting a class that will be able to work as team members, both fostering and challenging their student colleagues to reach their potential in the program. In addition, to meeting admission requirements, candidates with the following qualities are viewed favorably by the Admission Committee:

- Personal ambition
- Commitment to learning
- Attention to detail
- Passion for professional excellence

The final selection of students in the Perfusion Program is based on a scoring system taking into considerations all aspects of the application and interview process: application score, dexterity score, interview evaluation, interview written essay and basic science exam.

### Academic Program and Assessment

Program Sequence and Delivery

Students in the Perfusion Program at Vanderbilt University Medical Center experience 22 months of clinical and didactic training, leading to a certificate in Perfusion from the Center for Programs in Allied Health at Vanderbilt University Medical Center. The Perfusion Program does not accept advanced placement credits. Students in the program must complete the entirety of the program curriculum in sequential order to successfully complete and graduate from the program. The program starts at the beginning of August each year and ends in mid-May. Modes of delivery of clinical objectives:

- Clinical Rotational Experience
- Simulation
- Medical Conferences/Presentations
- Competency Modules/Checklist

### FIRST YEAR - FALL SEMESTER (August through December)

• AP501: Anatomy and Physiology

• PHARM501: Pharmacology

• CVPT501: Cardiovascular Perfusion Technology I

RES501: Research Lab ISIM501: Simulation I

### FIRST YEAR - SPRING SEMESTER (January through May)

• CVPT502: Cardiovascular Perfusion Technology II

• RES502: Research Lab II

• PATHO501: Pathophysiology

• CR501: Clinical Rotation I

• SIM502: Simulation II

# SECOND YEAR - SUMMER SEMESTER (May through August)

• CR502: Clinical Rotation II

• SEM501: Seminars in Perfusion

# SECOND YEAR - FALL SEMESTER (August through December)

• CVPT503: Cardiovascular Perfusion Technology III

• RES503: Research Lab III

• CR503: Clinical Rotation III

• SIM503: Simulation III

### SECOND YEAR - SPRING SEMESTER (January through May)

• CVPT504: Cardiovascular Perfusion Technology IV

• RES504: Research Lab IV

• CR504: Clinical Rotations IV

• SIM504: Simulation IV

Course	Lecture	Lab	Practicum/ Clinical	Semester Credit
Human Anatomy and Physiology	4.5			4.5
Pharmacology	3			3
Pathophysiology	4			4
Cardiovascular Perfusion Technology I	4.5		2	6.5
Cardiovascular Perfusion Technology II	2			2
Cardiovascular Perfusion Technology III*	2			2
Cardiovascular Perfusion Technology IV*	2.5			2.5
Clinical Rotation I			15	15
Clinical Rotation II			12	12
Clinical Rotation III			16	16
Clinical Rotation IV			16	16
Research I	1	1		2

Research II	1			1
Research III*	1			1
Research IV*		1		1
Simulation I	1	2		3
Simulation II		1		1
Simulation III		1		1
Simulation IV		1		1
Seminars in Perfusion*	1.5			1.5
Program Totals	28	7	61	96

<sup>\*</sup> Designates course delivery in Blended Distance Education format.

### Definition of Credit Hour

Credit hours are determined based on the following equivalencies:

- 15 lecture semester hours is equivalent to 1 credit
- 30 laboratory semester hours is equivalent to 1 credit
- 45 practicum semester hours is equivalent to 1 credit

Each Perfusion Program course 1) has its own syllabus outlining grading criteria, 2) is assigned semester credit hours and 3) is delivered as outlined in the program curriculum.

**Course Descriptions** 

### Anatomy and Physiology (A and P 501)

This course provides the entry-level perfusion student with a detailed overview of specific areas of human anatomy and physiology: cardiac, vascular, renal, and respiratory. Emphasis is placed on the application of these areas as it applies to cardiovascular and perfusion technology. The student will be provided with a basis for understanding the complex interaction of the patient with the mechanisms of extracorporeal circulation or applications of techniques utilizing modes of perfusion in the treatment of different disease states. Course work will include both class time and observations within the surgical suite, cardiac cath, as well as on the patient cardiovascular intensive care units.

Offered in the Fall Semester.

### Cardiovascular Perfusion Technology I (CVPT501)

This course introduces the entry-level perfusion student to fundamental development perfusion techniques through theoretical and practical applications. Students will examine the relationship between blood flow within and outside the body and the cardiovascular devices utilized to facilitate extracorporeal circulation. The student will be presented with the history, basic components, equipment, physiological monitoring and measurement, laboratory measurement, priming components and physiology as related to extracorporeal perfusion. Students will rotate through different areas of the Vanderbilt University Hospital to gain an understanding of the therapies and diagnostic testing a cardiac patient is exposed to during the treatment of their disease state.

Offered in Fall Semester.

### Cardiovascular Perfusion Technology II (CVPT 502)

This course will build upon the fundamental principles taught in CVPT I. The course will expand upon a few of the fundamental principles and introduce new areas where perfusion techniques are utilized. Students will demonstrate the understanding of perfusion policies and procedures and the ability to complete a perfusion

plan based on specific patients. The student will be introduced to transplantation techniques for the heart, heart-lung, lung, and liver, cerebral perfusion techniques, embryology of the cardiac and vascular system, cardiac assist devices and extracorporeal membrane oxygenation.

Offered in the Spring Semester. Prerequisites: SIM501, PATHO501, CVPT501, PHARM501, RES501, AP501

# Cardiovascular Perfusion Technology III (CVPT503)

This course will continue to build upon the fundamental principles taught in CVPT I and II. This course will expand upon the fundamental principles while incorporating new areas of perfusion technology. The student will be introduced to special patient management, review of acid base management and laboratory measurements, blood management therapies and special applications of perfusion techniques. Students not on site will be able to take this course through distant learning and maintain the same pace as student on site.

Offered in Fall Semester. Prerequisites: SIM502, CVPT502, RES502, SEM501, CR502

### Cardiovascular Perfusion Technology IV (CVPT504)

This course will focus on the professional development of entry level perfusion student. The student will be introduced the development of professional portfolio (CV and cover letter), interviewing for a job, medical ethics, emergency preparedness as it relates to being a medical professional, quality measures, management techniques, and an extensive review of pharmacology and pathophysiology. Students not on site will be able to take this course through distant learning and maintain the same pace as student on site.

Offered in the Spring Semester. Prerequisites: SIM503, CVPT503, RES503

# **Clinical Rotation I (CR501)**

This course is the first clinical rotation the student will have during their course of study. The student will be introduced to the policies and procedures of the perfusion departments of Vanderbilt University Medical Center and Monroe Carell Children's Hospital at Vanderbilt University and Centennial Medical Center. The course provides the student with an introduction to the preparation and management of cardiopulmonary bypass and extracorporeal circulation procedures under the direct supervision of a clinical instructor. The student will apply their knowledge of anatomy, physiology, pathophysiology, and pharmacology into the assessment of the patient in order to develop a management plan for the patient undergoing cardiac surgery. The student will begin to assist in the operation and management of the cardiopulmonary bypass circuit and will progress through the semester to establish the ability to function in the primary role under the direct supervision of a clinical instructor. The student will be rotating "on call" responsibilities during the week and weekend with their colleagues.

Offered in the Spring Semester. Prerequisites: SIM501, PATHO501, CVPT501, PHARM501, RES501, AP501

#### **Clinical Rotation II (CR502)**

This course is the second clinical rotation the student will have during their course of study. The student will be introduced to the policies and procedures of the perfusion departments of outside of the clinical affiliations in Nashville. The student will be introduced to policies and procedures of outside rotations. This course will continue to build upon the clinical foundation of the student with regards to the preparation and management of cardiopulmonary bypass and extracorporeal circulation procedures under the direct supervision of a clinical instructor. The student will apply their knowledge of anatomy, physiology, pathophysiology, and pharmacology into the assessment of the patient in order to develop a management plan for the patient undergoing cardiac surgery. The student will participate under the direct supervision of the clinical instructor in the operation and

management of the cardiopulmonary bypass circuit to establish the ability to function in the primary role. The student will be rotating "on call" responsibilities during the week and weekend with their colleagues.

Offered in the Summer Semester. Prerequisites: SIM502, CVPT502, RES502, CR501

### **Clinical Rotation III (CR503)**

This course is the third clinical rotation the student will have during their course of study. The student will continue to review the diagnostic work-up procedures and apply their knowledge to develop a management plan for the patient undergoing cardiac surgery. Students will continue to be introduced to policies and procedures of clinical affiliations outside of Nashville. The course provides a clinical experience in which the student can consistently perform the primary role in the management of cardiopulmonary bypass and extracorporeal circulation procedures under the direct supervision of a clinical instructor. The student will continue to be evaluated in their development of operative surgical management of cardiopulmonary bypass and other extracorporeal perfusion related management skills. This course will provide the additional experience needed to move the student from level of experienced to competent in the management of cardiopulmonary bypass. The student will be rotating "on call" responsibilities during the week and weekend with their colleagues.

Offered in the Fall Semester. Prerequisites: SIM502, CVPT502, RES502, CR502, SEM501

### **Clinical Rotation IV (CR504)**

This course is the fourth clinical rotation the student will have during their course of study. The student will show at a minimum competency in all areas of preparation and management of procedures in perfusion techniques are employed. Students not on site will be able to take this course through distant learning and maintain the same pace as student on site. This course provides the clinical experience in which the student can exhibit advanced management of cardiopulmonary bypass and extracorporeal circulation procedures. Although the student is always under the direct supervision, it is the expectation of this course that the student perform at a level as though unsupervised. Upon completion of this course the student will have completed their required clinical experiences. The student will be rotating "on call" responsibilities during the week and weekend with their colleagues.

Offered in the Spring Semester. Prerequisites: SIM503, CVPT503, RES503, CR503

#### Pathophysiology (PATHO501)

This course is designed to provide the entry level perfusion student with a course linking anatomy, physiology, pathophysiology and the application of perfusion practice. The course will provide the detailed foundation and skills that are necessary to understand the interplay between the science of extracorporeal technology and the pathophysiologic considerations that play a role in the initiation, maintenance, and termination of extracorporeal circulatory support. Students will understand the basic diagnostic principles involved in determining the nature and extent of the disease process necessitating surgical intervention. Both acquired and congenital heart disease processes will be examined, as well as other pathologies that may present in conjunction with the use of extracorporeal equipment. The course is divided into three pathophysiology sections: blood and coagulation, acquired heart disease, and congenital heart disease.

Offered in the Fall Semester.

# Pharmacology (PHARM501)

This course provides the entry-level perfusion student with an emphasis of the overview of cardiovascular pharmacology, to act as a basis for the understanding of the interactions of pharmacologic agents with the cardiac patient. The fundamental principles of pharmacology necessary for an understanding of the

mechanisms of action of drugs and knowledge of their rational and effective and monitoring are presented. The student is introduced to the management coagulation cascade and platelet aggregation as it relates to the cardiac patient.

Offered in the Fall Semester.

### Research Lab I (RES501)

This course introduces the entry-level perfusion student to basic laboratory techniques / experiments to reinforce the understanding of circuit components and their specifications. The student will be introduced to writing lab reports and presenting their results. This course will involve both lecture and laboratory time.

Offered in the Fall Semester.

### Research Lab II (RES502)

This course provides the student with the fundamental knowledge required to develop and publish scientific articles within the field of perfusion. The students will introduced to evidence based medicine, literature reviews, randomized and observational studies, the techniques to blind studies, specific aims and how to critique the literature. Student will develop a research hypothesis as through the completion of a literature review.

Offered in the Spring Semester. Prerequisites: SIM501, PATHO501, CVPT501, PHARM501, RES501, AP501

### Research Lab III (RES503)

This course provides the student with ability continue to work to identify research topic, well reviewing current literature in the field of perfusion as well as participation in a review course for the preparation of perioperative blood management exam. Students will be exposed to the different platforms for presentation of scientific material. Students not on site will be able to take this course through distant learning and maintain the same pace as student on site.

Offered in the Fall Semester. Prerequisites: SIM502, CVPT502, RES502, SEM501

# Research Lab IV (RES504)

This course will focus on the completion of the required manuscript for satisfaction of the program. The student will be required to meet manuscript deadlines to demonstrate progression towards completion of their manuscript. Students not on site will be able to take this course through distant learning and maintain the same pace as student on site.

Offered in the Spring Semester. Prerequisites: SIM503, CVPT503, RES503

### Simulation I (SIM501)

This course prepares the perfusion student for clinical experience as it relates to the identification of circuit components, circuit set-up, and priming of the cardiopulmonary bypass circuit. The instructor is able to focus on the student's development of the psychomotor skills and the application of circuit components. Each student is able to develop their knowledge in circuit design and operation in and environment that promotes confidence in their abilities.

Offered in the Fall Semester.

# Simulation II (SIM502)

This course builds upon the skills acquired in SIM 501 and prepares the perfusion student for clinical experience as it relates to the preparation of the circuit for a specific patient, pre-pump procedures (sterile procedure, retrograde autologous priming, and anticoagulation management), initiation of cardiopulmonary

bypass, management of cardiopulmonary bypass (anticoagulation, volume management, myocardial preservation, acid base management, and hemodynamic management), venous return and arterial line low occurrence events, and termination of cardiopulmonary bypass. The instructor is able to focus on the student's development of the psychomotor skills, clinical management skills, and the application of conceptual knowledge. Each student is able to develop their knowledge and clinical skills in environment that promotes confidence in their abilities. Students will be exposed to pediatric simulation with the focus on circuit design, set-up, and priming. Students will have two simulation practical, one focusing on the pediatric component and the second focusing on adult CPB case management, and two written exams.

Offered in the Spring Semester. Prerequisites: SIM501, PATHO501, CVPT501, PHARM501, RES501, AP501

### Simulation III (SIM503)

This course builds upon the skills acquired in Sim 502. The student is required to continue to demonstrate competency in the skills acquired in Sim 502 with the additional exposure to both common events and uncommon events as they relate to cardiopulmonary bypass management. The student is introduced to catastrophic management protocols. The instructor is able to focus on the student's development of the psychomotor skills, clinical management skills, and the application of conceptual knowledge. Each student is able to develop their knowledge and clinical skills in environment that promotes confidence in their abilities. Student will be exposed to cardiopulmonary bypass management utilizing a centrifugal pump.

Offered in the Fall Semester. Prerequisites: SIM502, CVPT502, RES502, SEM501

### Simulation IV (SIM504)

This course builds upon the skills acquired in Sim 503. The student is required to continue to demonstrate competency in the skills acquired in Sim 503 with the additional exposure to both common events and uncommon events as they relate to cardiopulmonary bypass management with the utilization of a centrifugal arterial pump. The student is introduced to catastrophic management protocols. The instructor is able to focus on the student's development of the psychomotor skills, clinical management skills, and the application of conceptual knowledge. Each student is able to develop their knowledge and clinical skills in environment that promotes confidence in their abilities.

Offered in the Spring Semester. Prerequisites: SIM503, CVPT503, RES503

#### Seminar in Perfusion (SEM503)

Students will be exposed to discussions on current practices and techniques utilized in cardiopulmonary bypass. Students will prepare seminar presentations on specific topics in relationship to extracorporeal perfusion. Students will discuss and present cases and problems arising during their clinical experiences in the form of case presentations. Students not on site will be able to take this course through distant learning and maintain the same pace as student on site.

Offered in the Summer Semester Prerequisites: SIM502, CR501, RES502, CVPT502

### **Grading and Assessment**

Didactic Evaluation System

The grading scale for the VUMC Perfusion Program is as follows:

Scale	Grade	GPA
95-100%	A	4.0
90-94%	A-	3.5

85-89%	В	3.0	
80-84%	B-	2.5	
75-79%	С	2.0	
<75%	F - FAILURE	0	
Р	Pass - Any course with a "P" grade is not calculated into the grade	de point average.	
F	Fail - Any course with an "F" grade is not calculated into the grade repeated and passed to graduate.	de point average. However, the course must be	
1	Incomplete - May be used at the discretion of the instructor in those cases in which the student is not able to complete work in the normal time. In those instances, the student and instructor develop a written plan for an extension to provide work by a specific date that falls within the period of time specified by the relevant program's requirements (but in no circumstances greater than one month). An "I" that is not replaced by a letter grade within the period of time specified by the relevant program's requirements, due to unsatisfactory completion of the student's plan, will be changed to an F after the period specified by the program (a period not to exceed one month). Any course with an "I" grade is not calculated into the grade point average. Once a grade is assigned to the course (when conditions are met that allow for the removal of the "I" and assignment of a final grade), that grade will factor into the student's GPA.		
W±	Withdrawal – Utilized when a student leaves the course due to an approved leave-of-absence or withdraws from the school prior to the scheduled completion of a course. Any course with a "W" grade is not calculated into the grade point average.		
R	Repeat - Some programs allow students to repeat courses. In those programs, for any course that is repeated, a Repeat will be provided as the grade for the first attempt at the course. Any course with an "R" grade is not calculated into the grade point average. However, courses will be considered hours / credit hours attempted for the purpose of determining maximum time frame. Please refer to each program's student handbook for information about whether students are allowed to repeat courses in any given program.		

Successful completion of a course requires a student to receive a 75% or greater for the final grade for the course. Scores are calculated according to the derivation chart in each syllabus. Students who do not complete required work or hours in a course will be assigned a failing grade for the course.

Final grades for each course are computed on the following bases:

- Students must attain a final grade of 75% in each course in order to maintain Satisfactory Academic Progress.
- Non-academic evaluations (behavior and conduct evaluations) will be completed by instructors for academic advising and/or remediation purposes. While these evaluations are calculated into the grade, behavior/professionalism concerns (e.g., missing of examinations or classes, tardiness, etc.) will have negative consequences for the student's ability to maintain Satisfactory Academic Progress, putting the student at risk of SAP Warning, probation and/or dismissal from the program.

#### Clinical Evaluation

Student clinical competency is measured by means of a clinical evaluation form. The clinical evaluation form has been designed to address the cognitive, affective, and psychomotor learning domains of the program as well and the interpersonal domain. The form is reviewed by the student and the instructor immediately following each case. If the evaluation consistently shows lack of competency in a particular area of a student's performance, the student will receive increased instruction and practice. Extra simulation sessions facilitated and supervised by the Program Director may be required.

In addition the student will be evaluated on a mid-term evaluation and/or end of rotation evaluation by clinical instructors as outlined in the syllabus of each clinical course. The clinical evaluation scale is as following:

- 1. Dependent: > 90% of the time the student almost REQUIRES direction, guidance, monitoring, and support, while < 10% of the time the student EXHIBITS assertiveness, efficiency, focus, and eagerness to learn.
- 2. Novice: 75% of the time the student REQUIRES direction, guidance, monitoring, and support, while 25% of the time the student EXHIBITS assertiveness, efficiency, focus, and eagerness to learn.
- 3. Assisted: 50% of the time the student REQUIRES direction, guidance, monitoring, and support, while 50% of the times the student EXHIBITS assertiveness, efficiency, focus, and eagerness to learn.
- 4. Supervised: 25% of the time the student REQUIRES direction, guidance, monitoring, and support, while 75% of the times the student EXHIBITS assertiveness, efficiency, focus, and eagerness to learn.
- 5. Self-Directed: < 10% of the time the student REQUIRES direction, guidance, monitoring, and support, while >90% of the time the student EXHIBITS assertiveness, efficiency, focus, and eagerness to learn.

Students are expected to make appropriate clinical progress over time, as outlined in each of the clinical courses' syllabus.

# Clinical Competence

At the completion of the case requirements for each clinical level – or at any time by the request of the Program Director – the student's clinical performance is evaluated by the members of the Clinical Competency Committee. The student advances to the next clinical level by passing the preceding clinical course.

# **Satisfactory Academic Progress (SAP)**

In order to maintain Satisfactory Academic Progress through the curriculum plan, the student must achieve a grade of "75%" or better at all times in each course including simulation, research lab courses and clinical rotations. It is recommended that each student monitor his/her own progress according to the course syllabus. Students who do not meet these requirements during the semester will be placed on an academic monitoring with a remedial action plan.

### Progression in the Program

The program and all related courses must be completed in their entirety for a transcript to be created and given. Advanced placement is not allowed. All grades of Incomplete must be replaced by a final grade before a transcript can be created. Students are required to complete all components of the program within the 22 months of program matriculation, and in the sequential order as presented in this catalog.

The Program Advisory Committee reserves the right to extend a student's training to make up for a deficit in a single course, but this remediation is not to extend training more than five (5) months from the end of the program year.

### **Code of Conduct**

In addition to the VUMC Code of Conduct, students in the VUMC Perfusion Program are bound by standards of conduct specific to their profession. Adherence to the VUMC Code of Conduct, the American Board of Cardiovascular Perfusion (ABCP) Code of Ethics, and the American Society of Extracorporeal Technology (AmSECT) Code of Ethics is required of students at all times.

# Ethical Standards of The American Board of Cardiovascular Perfusion

The American Board of Cardiovascular Perfusion (ABCP) is dedicated to the provision of safe, competent medical care for any and all patients. To that end, the ABCP administers certification examinations and

monitors recertification, and therefore requires those participating in these credentialing processes to ascribe to the following ethical standards.

I. Each Certified Clinical Perfusionist (CCP) and applicant (or candidate for certification), (hereinafter, referred to as "individual,") shall comply with all existing and future rules, regulations and standards of the ABCP and will bear responsibility for demonstrating compliance with same. An individual is eligible to apply for and maintain certification/recertification only when in compliance with all the ABCP rules, regulations and standards.

If an individual is not in compliance with the ABCP rules, regulations or standards, the ABCP may impose one or more of the following sanctions: deny or suspend eligibility; deny, revoke, refuse to renew, or suspend certification; issue a reprimand; or take other corrective action regarding certification or recertification.

- II. The individual shall not willfully fail to promote the safety and welfare of the public, whether through negligent acts, acts of omission or through misrepresentation. Failure to promote public safety and welfare or the provision of safe, competent medical care includes (but is not limited to):
  - a. impairment of professional performance because of habitual use of alcohol, drugs, or other substance, or any physical or mental condition;
  - b. gross or repeated negligence or malpractice in professional work;
  - c. noncompliance with laws related to the profession;
  - d. failure to maintain a current professional credential as required by the jurisdiction in which the individual practices (this may include a license, certificate, or registration);
  - e. the conviction of, plea of guilty to, or plea of nolo contendere to a felony related to public health and safety or the profession; and
  - f. disciplinary action by a licensing board or professional organization other than the ABCP.
- III. The individual convicted of, or pleading guilty or nolo contendere to, a felony directly related to public health and safety or the provision of safe, competent medical care shall be considered ineligible to apply for certification/recertification for a period of one year from the exhaustion of the appeals, proceeds or final release from confinement (if any), or the end of probation, whichever is later. An individual who is incarcerated, or for whom incarceration is pending, as of the application deadline date is ineligible for certification or recertification to the end of incarceration.

Felony convictions considered for this standard include, but are not limited to, fraud, actual or threatened use of a weapon or violence, rape, sexual abuse of a patient or child, or prohibited sale, distribution, possession, or misuse of controlled substances.

- IV. The individual shall not engage in unauthorized possession or misuse of the ABCP's credential, examinations, and other intellectual property. The individual shall respect the ABCP's intellectual property rights and comply with the ABCP use of Credential Trademark Policy.
- V. The individual shall not misrepresent his/her certification status or misuse any title or membership in any professional organization or community.
- VI. The individual shall abide by the ABCP's reasonable test administration rules. The individual shall have had no unauthorized possession of, use of, or access to any examination documents or materials, nor shall the individual receive any unauthorized assistance, copy examination materials, or cause a disruption in the testing area during a test administration or the conduction of any portion of the certification examination. The individual shall not subsequently use or divulge information gained from his/her examination experience for any reason.

- VII. The individual must truthfully complete and sign an application in the form provided by the ABCP, pay the required fees, and provide additional information as requested. The individual shall not make any material misrepresentation of fact during application for certification/recertification. Ineligibility for certification, regardless of when the ineligibility is discovered, is grounds for disciplinary action.
- VIII. The individual shall report possible violations of these Ethical Standards and any other development bearing on certification in writing to the Executive Director of the ABCP.

Other persons concerned with possible violation of the ABCP rules are encouraged to contact the ABCP. The person making the complaint should identify him-/herself by name, address, email address, and telephone number. However, the ABCP may consider anonymous complaints.

This report should include information regarding the identity of the person(s) involved in the alleged misconduct with as much specific detail and documentation as possible. The identity of the person making the report must be made known as well as others with knowledge of the facts and circumstances surrounding the alleged misconduct. <a href="https://abcp.org/pd/ethics.pdf">https://abcp.org/pd/ethics.pdf</a>

### AmSECT Practice Guidelines - Code of Ethics

#### Preamble

The purpose of a code of ethics is to acknowledge a profession's acceptance of the responsibility and trust conferred upon it by society and to recognize the internal obligations inherent in that trust. The following paragraphs delineate the standards governing the conduct of members in their professional interactions with patients, colleagues, other health professionals and the general public. Realizing that no code can encompass all ethical responsibilities of the members, this enumeration of obligations in the code of ethics is not comprehensive and does not constitute a denial of the existence of other obligations, equally imperative, and not specifically mentioned herein. This code of ethics shall be binding on the members of this Society.

### Canon 1

Members must uphold the dignity and honor of the profession, accept its disciplines and expose without hesitation illegal, unethical and incompetent conduct.

#### **Interpretive Statements**

- a. Members are part of a collaborative effort to deliver proper health care to the patient under the members' care.
- b. The member has a personal, as well as a professional, obligation to protect and safeguard the patients from illegal and/or unethical actions or the incompetence of any person.
- c. The member must maintain personal integrity and establish the appropriate means to fully protect his freedom of conscience for the delivery of services to the patient.
- d. A member who demonstrates incompetence or illegal conduct as it pertains to this Code of Ethics shall be exposed to the proper authorities.

#### Canon 2

Members shall respect the patients' rights and dignity and shall uphold the doctrine of confidentiality regarding privileged patient information.

### **Interpretive Statements**

a. Information about the patient's clinical situation will be kept confidential, unless otherwise required by law, in order to protect the welfare of an individual or community. Written guidelines or protocols of

an institution or department may be instrumental in deciding the manner in which confidential information is handled for release.

#### Canon 3

Members shall provide only those services for which they are qualified. Members shall not misrepresent in any manner, either directly or indirectly, their skills, training, professional credentials, identity or services.

# **Interpretive Statements**

- a. Members will accept responsibility for the exercise of sound judgment in the delivery of services to the patient and shall be accountable for the quality of the service provided.
- b. Members will provide accurate information about the profession, and the services they provide, as well as the members' own qualifications.
- c. The members shall not engage in practices beyond their competence or training.
- d. Members shall not delegate to a less qualified person any activity which requires the unique skill, knowledge, and judgment of a formally educated perfusionist. Services rendered by supportive personnel will be under the supervision of a formally educated perfusionist.

### Canon 4

Members shall strive to improve their medical knowledge and skills on a continuing basis.

# **Interpretive Statements**

- a. Members shall support quality didactic and clinical education.
- b. Professional conduct will be maintained toward members' peers, students, medical staff, and patients.
- c. Members shall participate in educational activities, either by individual study or through continuing education, which will enhance their basic knowledge in order to continue to provide quality healthcare to the patient.

### Canon 5

Members shall maintain and promote high standards for perfusion practice which may include education, research, and scientific presentations and/or publications.

#### **Interpretive Statements**

- a. Members shall protect the rights of patients and animals involved in research and conduct research in accordance with accepted ethical and reporting standards.
- b. All members who participate or contribute as an author or investigator will receive proper recognition and responsibility for the data being presented and/or published.
- c. The members shall maintain and promote high standards for research, including:
  - 0. Full public disclosure and/or acknowledgments of support for research.
  - 1. Avoidance of fraud and plagiarism.
  - 2. Scientific articles will not be published in more than one journal without referencing the primary publishing journal, and the consent of the editors of all publications must be obtained.
- d. Representation of the Society by members should be in writing and/or at the direction of or by the Board of Directors and/or Executive Committee.

#### Canon 6

A member shall at all times hold the well-being of the patient to be paramount and shall not act in such a way as to bring the member's interests into conflict with the patient's interests. A member shall deliver health care

services without regard to race, color, creed, national origin, sex, age, religion, sexual preference or physical and/or mental condition.

### **Interpretive Statements**

- a. A member's professional practice and adherence to ethical principles shall take preference over business practices. Members shall place service before material gain.
- b. A member should fully disclose to clientele other business practices that may appear as a conflict of interest to clientele and/or the public. These may include but are not limited to:
  - Consultant for fee
  - Clinical instructor (support staff from industry)
  - Sales representative
  - o Technical advisor
  - Lecturer for fee
  - Acceptance of fees, gratuities, funding from industry
- c. The American Society of ExtraCorporeal Technology (AmSECT) is the professional society for the cardiopulmonary perfusionist. Its membership encompasses the vast majority of practicing perfusionists. The purpose of the Society is defined in its mission statement: "The mission of AmSECT is to foster improved patient care and safety by providing for the continuing education and professional needs of the ExtraCorporeal technology community." In that the ultimate concern of the Society is to improve patient care, it is our position that clinicians engaged in the practice of cardiopulmonary bypass are required to and must be allowed to periodically evaluate the equipment which is utilized in cardiopulmonary bypass in the effort of continuously improving patient care which should include not only patient outcomes but safety as well. To this end, AmSECT holds that each perfusionist has the following ethical and professional responsibilities:
  - The perfusionist is the most qualified individual, by training, education, experience, and based on the job description have the responsibility to evaluate, recommend, select, and implement the components of the ExtraCorporeal circuit so that patient safety and care are optimized.
  - The perfusionist will always attempt to fairly evaluate all competing products and services,
     with the principal selection criteria being that of regard for patient safety and well-being.
  - The perfusionist shall always base any decision on product and service selection on clinical evaluations and documented clinical and scientific data.
  - The perfusionist will not allow the opportunity to arise whereby objective evaluations of products and services are compromised by gratuities, gifts, entertainment, consulting engagements, employment status, or any other material or personal gain.

In conclusion, it is the responsibility of the perfusionist to make decisions regarding the selection of clinical products with the patient as the primary concern.

### http://www.amsect.org/page/code-of-ethics

### **Graduation/Completion Requirements**

Students in the VUMC Perfusion Program are required to do the following in order to graduate with a Certificate in Cardiovascular Perfusion Technology:

- 1. Complete all courses in the Curriculum Plan with a "C" (≥ 75%) or better as outlined in
- 2. Progression Policy.
- 3. Complete an independent research paper.
- 4. Not be on probation at the time of completing the program for any reason (including unprofessional conduct).
- 5. Pass a comprehensive final examination.

- 6. Pass an oral examination.
- 7. Pass a final practical examination.
- 8. Receive clearance from the clinical competency committee (Note: No student will be given
- 9. clinical clearance from the program earlier than two weeks prior to graduation independent of the number of clinical cases completed by the student.
- 10. Participate in exit interview with the Program Director.

# National Examination/State Licensure

After successful completion of the course of study, graduates of the VUMC Perfusion Program are eligible to take the national certification examination administered by the American Board of Cardiovascular Perfusion. The certification exam is a two exam process. The first exam is the Perfusion Basic Science Exam (PBSE) and requires the student to have graduated from an accredited perfusion program, completed 75 clinical cases, and be given clinical competency clearance by the program director. The second exam is the Clinical Application in Perfusion Exam (CAPE) in addition to the requirements for the PBSE the applicant must also have completed 40 independent clinical cases after graduation.

It is entirely the students' responsibility to seek guidance from the American Board of Cardiovascular Perfusion regarding the certification process, and it is likewise entirely the students' responsibility to seek guidance from any and all licensing bodies that may impact their practice, either as students prior to graduation, or as practicing perfusionists following graduation.

Certification by the ABCP is a pre-requisite for licensure in all states that currently offer licensure to perfusion care providers. Students graduating from an accredited program will be eligible for a provisional license in those states requiring a license. The permanent license will be granted upon satisfying the certification process.

### **Equipment List**

Sarns 8000 Heart Lung Machine Stockert Heart Lung Machine Maquet Rotaflow pump Heamonectics Cell Saver 5 (autotransfusion device) Cincinnati Sub-Zero Hemotherm Heater/Cooler Complete set of cardiac surgery surgical instrumentation Datascope 98XT Intra-aortic balloon pump with trainer Quest myocardial protection system

Sechrist Blender

Califia Perfusion Simulator with beating heart module and anesthesia module

Biomedicus Centrifugal pump x2

Perfusion pump disposals packs

- o Oxygenators (neonatal, pediatric, and adult)
- o Tubing
- o Filters (arterial, blood, pre-bypass, leukocyte depleting)
- o Stopcocks

Various different cannuale (aortic, venous (dual and single stage), Various disposal oxygenators

Vacuum Regulators

Pressure transducers

**DLP Pressure Monitor and disposables** 

Patient chest cavity

### **Other Program Policies**

### **Professional Dues**

Students are expected to join the national perfusion associations: the American Society of Extracorporeal Technology (Am SECT) and the American Academy of Cardiovascular Perfusion (AACP). Membership in the AmSECT requires completions of a student application and a one-time fee of \$15.00. Membership in the AACP requires completion of a student application and an annual fee of \$25.00. Students are required to maintain their student memberships during the tenure of the program. These costs are included in the VUMC Center for Programs in Allied Health Estimated Cost of Attendance Table, which appears in this catalog.

### Perioperative Blood Management Exam

Students are expected to sit for the Perioperative Blood Management Exam administered by the International Board of Blood Management (IBBM) in the Fall of the Senior Year. The application fee for the exam is \$200. The cost associated with this exam as well as the ABCP certification exams to be taken following graduation are included in the VUMC Center for Programs in Allied Health Estimated Cost of Attendance Table, which appears in this catalog.

### **Professional Conferences**

Students are encouraged to submit papers and posters for presentation, participate in student functions, and attend profession conferences. Students will be allowed six (6) days to be used throughout the twenty-two (22) months of the program to attend professional conferences. Students are required to sign the VUMC Perfusion Program Conference Attendance Code of Conduct prior to gaining approval from the Program Director to attend a conference.

# Conference Attendance Code of Conduct

- Attend all the scientific sessions and be on time in the morning for the meetings.
- Refuse any dinner or bar tab paid by vendors unless it is a conference sponsored event.
- Dress professional when attending all meetings business professional.
- Treat all perfusion students from other programs with the utmost respect.
- Know that violation of any of the above rules may result in probation and/or dismissal from the program.
- Be a proud professional representative of the VUMC Perfusion Program in the Center for Programs of Allied Health.

The costs associated with attendance of a professional conference are included in the VUMC Center for Programs in Allied Health Estimated Cost of Attendance Table, which appears in this catalog

This catalog contains only a summary of program policies and procedures. Students should refer to the program handbook for additional information.