

# **UAB** SCHOOL OF HEALTH PROFESSIONS

The University of Alabama at Birmingham

## *Clinical and Diagnostic Sciences* *MS in Nuclear Medicine & Molecular Imaging* *Sciences*

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# 2024-2025 STUDENT HANDBOOK



**UAB // SHP**

**UAB SCHOOL OF HEALTH PROFESSIONS**  
***CLINICAL AND DIAGNOSTIC SCIENCES***  
***MS in NUCLEAR MEDICINE & MOLECULAR IMAGING SCIENCES***  
**2024-2025 ACADEMIC HANDBOOK**



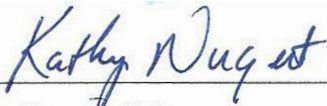
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Amy Brady, MAEd, CNMT  
Program Director

05/14/2024

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Date



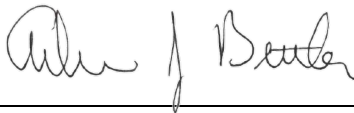
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Kathy Nugent, PhD  
Department Chair

5/14/2024

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Date



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Andrew Butler, PhD  
Dean, School of Health Professions

5/14/2024

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Date

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## INTRODUCTION

### DEAN'S WELCOME MESSAGE

Welcome to the University of Alabama at Birmingham School of Health Professions! We are pleased you chose to join one of our many excellent programs, which in combination have established us as a national leader in health professions education.

We are home to one of the largest health professions schools in the nation with more than 30 programs at the certificate, baccalaureate, master's, and doctoral levels, with more than 2,000 undergraduate and graduate students enrolled.

Moving into a post-COVID environment is a new start for everyone in health care, and you are in the best place to begin your personal journey toward joining this dynamic field. We are all committed to providing you a world-class education, and to support your pursuit of knowledge and your strong desire to serve others as a healthcare professional.

The pandemic has challenged all of us in many ways, and your entry into one of our professional programs demonstrates one of the most precious personal qualities one can have: resilience. That resilience has brought you here today and will continue to serve you well during your journey at UAB.

We recognize that healthcare needs - even outside of a pandemic - are constantly changing. That is why we continue to add innovative programs to our academic portfolio and to enhance and revitalize ongoing programs. We also offer graduate programs you will only find in Alabama at UAB, such as Genetic Counseling, Nuclear Medicine and Molecular Imaging, Low Vision Rehabilitation, Health Physics, Healthcare Quality and Safety, doctoral-level Rehabilitation Science, and Biomedical and Health Sciences.

Our degrees and programs are fully accredited by their respective professional organizations. This means you will be eligible for licensure, national certification or registrations and enjoy being in high demand within the job market. Our first-time student exam pass rate on many credentialing exams is an astounding 98 percent or higher.

Graduating from the School of Health Professions means you will acquire an esteemed degree, have a host of job opportunities in healthcare – an industry that continues to grow rapidly – and be well prepared to make a difference in your community. We look forward to maintaining our relationship with you when you join our alumni community.

Our alumni give advice to current students that is worth repeating: “learn your craft, be a better professional for your patients, be open minded to future possibilities, and remember to have a healthy work/ life balance”.

I look forward to seeing you grow in your respective fields and watching you become the leader we know you can be.



Andrew J. Butler, PhD, FAPTA

## OVERVIEW OF THE SCHOOL OF HEALTH PROFESSIONS

A leader in federally funded research, the UAB School of Health Professions (SHP) is one of the largest academic institutions of its type in the United States and currently boasts several nationally ranked programs. What began in the 1950s as a collection of training programs in various para-professional disciplines has grown into an internationally recognized center of academic excellence.

The SHP initially took shape in 1969 as UAB gained autonomy within the University of Alabama System. Originally christened the School of Community and Allied Health Resources (SCAHR), the school incorporated the School of Health Services Administration and the Division of Allied Health Sciences from the College of General Studies with parts of the Department of Public Health and Epidemiology from the medical school. An innovative facility designed to meet the growing needs of the health care industry, the SCAHR was divided into four academic divisions that functioned like regular academic departments: Health Services Administration, Public Health and Environment, Allied Health Sciences, and the Regional Technical Institute for Health Occupations.

Throughout the 1970's and 80's the school's offerings were amended to reflect the changing health care industry. As a result of the changes, SCAHR became the School of Public and Allied Health (SPAH). Next it became the School of Community and Allied Health (SCAH) and later the School of Health Related Professions (SHRP). During this time, the school added several new areas of study including a nationally ranked program in Nutrition Sciences. Through the leadership and guidance of early visionaries, the school experienced unparalleled success, which continues to date.

Today, the School of Health Professions is comprised of more than 30 programs – at the certificate, baccalaureate, master's, and doctoral levels – across five academic departments: Clinical and Diagnostic Sciences, Health Services Administration, Nutrition Sciences, Occupational Therapy, and Physical Therapy. The school is housed in three buildings, the Susan Mott Webb Nutrition Sciences Building, the Learning Resource Center Building (LRC), and the School of Health Professions Building (SHPB).

With more than 2,200 faculty, staff, and students, SHP is one of six schools comprising the world-renowned UAB Academic Health Center. Students have access to vast academic resources, state-of-the-art facilities, and progressive research.

SHP is proud of many accomplishments including:

- U.S. News & World Report ranks SHP programs in the nation's top 25.
- Research funding is over \$14 million and growing.
- The school is at the top of the list in research funding from the National Institutes of Health for schools of its type and has been either first or second in funding received since 1969.

Under the current leadership of Dean Andrew Butler, the school has never been stronger or better positioned as a national leader in health professions education.

## SCHOOL OF HEALTH PROFESSIONS CONTACT INFORMATION

In addition to your program director and program faculty, the following individuals may be able to provide assistance with questions and issues related to your school and program activities.

**Jennifer Christy, PhD, Assistant Dean for Faculty Affairs**

(205) 934-5903; [jbraswel@uab.edu](mailto:jbraswel@uab.edu)

**Samantha Giordano-Mooga, PhD, Director of Undergraduate Honors Program**

(205) 996-1399; [sgiordan@uab.edu](mailto:sgiordan@uab.edu)

**Melanie Hart, PhD, Associate Dean for Academic and Faculty Affairs**

(205) 934-7528; [mhart2@uab.edu](mailto:mhart2@uab.edu)

**Kevin Storr, Director of Communications**

(205) 934-4159; [storr@uab.edu](mailto:storr@uab.edu)

**Lee Test, Director of Academic and Faculty Operations**

(205) 975-8034; [ltest@uab.edu](mailto:ltest@uab.edu)

**Marci Willis, Director, Learning Resource Center**

(205) 934-9472; [mbattles@uab.edu](mailto:mbattles@uab.edu)



## SECTION 1 – SCHOOL AND UNIVERSITY INFORMATION

### ACADEMIC CALENDAR

All dates related to registration, payments of tuition and fees, drop/add dates, other administrative requirements, and official school holidays are recorded on the [UAB Academic Calendar](#).

### ACADEMIC INTEGRITY CODE

The University established a new Academic Integrity Code effective August 23, 2021. This Code, which applies to undergraduate, graduate, and professional students as well as all academic activities, defines academic misconduct and outlines procedures for breaches of the code. Policies are established for resolution of charges of academic misconduct, and these processes are managed by the Academic Integrity Coordinator (AIC). In the School of Health Professions, the AIC is the Associate Dean for Academic and Faculty Affairs, the office is located in SHPB 660. The full text of the Academic Integrity Code is available at: [Academic Integrity Code](#).

### ADVISING

Undergraduate student advising is provided through the Student Services and Advising unit, which is housed in the School of Health Professions Building (SHPB) 230 suite of offices, near the elevators on the 2<sup>nd</sup> floor. Walk-ins are accepted, but appointments are preferred. Contact information for individual advisors is listed below.

Andrea Bennett, Academic Advisor III, (205) 996-1689; [arbennett@uab.edu](mailto:arbennett@uab.edu)

Eileen Hatfield, Academic Advisor II, (205) 934-4185; [mehatfie@uab.edu](mailto:mehatfie@uab.edu)

Chris Smith, Academic Advisor III, (205) 934-5974; [cjsmith1@uab.edu](mailto:cjsmith1@uab.edu)

Adam Pinson, Academic Advisor III, (205) 996-6789; [apinson@uab.edu](mailto:apinson@uab.edu)

Graduate student advising is provided through the SHP graduate programs.

### AMBASSADORS

Ambassadors help to spread awareness of the School of Health Professions and its multifaceted undergraduate and graduate programs, serve as liaisons between the department and university-wide student organizations, and serve as a student voice in school and university committees. The SHP Ambassadors help to support the programs within the school that will impact recruitment and retention initiatives.

### ASKIT

AskIT is the technology help desk for faculty, staff, and students. They provide free support via telephone, email, or in-person. You will be asked to supply your BlazerID when you request assistance.

## ATTENDANCE

Class attendance is expected in all SHP programs. Specific class, laboratory, or clinical site attendance requirements may be more stringent than university guidelines. Refer to the program requirements in this handbook and in course syllabi for policies. The UAB attendance policy is as follows:

The University of Alabama at Birmingham recognizes that the academic success of individual students is related to their class attendance and participation. Each course instructor is responsible for establishing policies concerning class attendance and make-up opportunities. Any such policies, including points for attendance and/or participation, penalties for absences, limits on excused absences, total allowable absences, etc., must be specified in the course syllabus provided to students at the beginning of the course term. Such policies are subject to departmental oversight and may not, by their specific prescriptions, negate or circumvent the accommodations provided below for excused absences.

The University regards certain absences as excused and in those instances requires that instructors provide a reasonable accommodation for the student who misses assignments, presentations, examinations, or other academic work of a substantive nature by virtue of these excused absences. Examples include the following:

- Absences due to jury or military duty, provided that official documentation has been provided to the instructor in a timely manner in advance.
- Absences of students registered with Disabilities Services for disabilities eligible for “a reasonable number of disability-related absences” provided students give their instructors notice of a disability-related absence in advance or as soon as possible.
- Absences due to participation in university-sponsored activities when the student is representing the university in an official capacity and as a critical participant, provided that the procedures below have been followed:
  - Before the end of the add/drop period, students must provide their instructor a schedule of anticipated excused absences in or with a letter explaining the nature of the expected absences from the director of the unit or department sponsoring the activity.
  - If a change in the schedule occurs, students are responsible for providing their instructors with advance written notification from the sponsoring unit or department.
- Absences due to other extenuating circumstances that instructors deem excused. Such classification is at the discretion of the instructor and is predicated upon consistent treatment of all students.
- Absences due to religious observances provided that students give faculty written notice prior to the drop/add deadline of the term.

In these instances, instructors must give students the opportunity to complete assignments in a way that corresponds as much as possible to the nature, scope, and format of the original. Options may include making up exams or other assignments, rescheduling student classroom presentations, or arranging for early or late submission of written assignments. The course make-up policy should be included in the syllabus.

## BACKGROUND CHECK

Students in SHP programs are required by policy to undergo a background check using the school's approved vendor, [CastleBranch](#), at the time of program admission, and again, prior to placement in a fieldwork placement (clinical, internship, practicum, residency, etc.). Additional checks may be required by the individual sites therefore, students should work with the program to ensure compliance requirements are met. Instructions for requesting the background check are provided to students by their programs.

**The Office of Academic and Faculty Affairs is responsible for ensuring student compliance throughout the program. Students found to be non-compliant will not be allowed to matriculate in the program (orientation, attend class, fieldwork placement, etc.) until all requirements are met. Program Directors, Fieldwork Coordinators, and students will be notified of non-compliance and a hold will be placed on the student's account.**

- **The initial background check must be completed prior to the first day of class.**
- **Subsequent background checks must be completed prior to the first day of the semester of a fieldwork placement (clinical, internship, practicum, residency, etc.).**

## BLAZERID / BLAZERNET / EMAIL

**BlazerID:** All students receive a unique identifier, the BlazerID, established at: [www.uab.edu/blazerid](http://www.uab.edu/blazerid). Your BlazerID is required for accessing BlazerNET and other campus resources. To activate one's BlazerID, select "Activate Accounts."

**BlazerNET** is the official portal of the UAB information network and is accessible from any Internet-accessible computer, on- or off-campus. Access BlazerNET from UAB home page [www.uab.edu](http://www.uab.edu) then choose UAB Quicklinks.

**Email: uab.edu** UAB student email is provided through Microsoft Office 365, a cloud-based system. Students have 50 GB of email space and 25 GB of free file 1 TB storage. Monitor your email regularly. Your UAB email is the official communication medium for courses, news, information, and announcements. Do not forward your UAB account to a personal email account. UAB is not responsible for information not received by the student due to the 'redirecting' of a UAB account to another email server.

## BLAZER EXPRESS

The UAB Blazer Express Transit System provides transportation throughout the UAB campus. With a valid UAB ID badge, students can enjoy fare-free bus transportation. All buses are ADA-accessible and can seat approximately 35 riders. For an updated schedule, route maps, and hours of operation please go to [www.uab.edu/blazerexpress/](http://www.uab.edu/blazerexpress/).

## BOOKSTORE

There is one bookstore located on the UAB campus, offering a wide variety of products and services to students, including online purchasing and shipping. The bookstore stocks UAB memorabilia and college wear in addition to all required textbooks and course material.

### UAB Barnes and Noble Bookstore

Location: 1400 University Blvd, Hill Student Center, Birmingham, AL. 35233

Hours: M – F 8:00am – 5:00pm | Sat 10:00am – 2:00pm | Sun Closed

Telephone: (205) 996-2665      Website: <https://uab.bncollege.com/shop/uab/home>

## CAMPUS ONECARD

The UAB OneCard is the official university identification card. It is used for personal identification, for entry to campus events and the recreation center, for library checkout, and for other UAB services. It also serves as a declining balance card for the UAB meal plans and for Blazer Bucks accounts. Additional information is available at [www.uab.edu/onecard](http://www.uab.edu/onecard).

## CAMPUS MAP

UAB's campus map can be found at the following: [www.uab.edu/map/](http://www.uab.edu/map/)

## CAMPUS SAFETY

Campus safety procedures and resources can be accessed at <https://www.uab.edu/students/home/safety>.

## CANVAS LEARNING MANAGEMENT SYSTEM

The Canvas Learning Management System is the platform used for managing instructional materials online. Canvas course sites are accessed through BlazerNET or at [www.uab.edu/elearning/canvas](http://www.uab.edu/elearning/canvas). Students should monitor their course sites routinely for communication from faculty and to manage course assignments.

## CATALOG

The UAB Catalog is published annually and includes UAB's courses, policies, and curricula. Students can link to the Undergraduate or Graduate catalog at [www.uab.edu/catalog](http://www.uab.edu/catalog).

## COMMUNITY STANDARDS AND ACCOUNTABILITY

[Community Standards and Accountability](#) is responsible for upholding the integrity and purpose of the university through the fair and consistent application of policies and procedures to students' behavior to ensure a community that respects the dignity and right of all persons to reach their highest potential. SARC delivers programs and services in order to promote student safety and success, the pursuit of knowledge, respect for self and others, global citizenship, personal accountability and integrity, and

ethical development. More information can be found here: [UAB Student Advocacy, Rights & Conduct](#). The UAB student conduct code may be accessed online: [UAB Student Conduct Code](#).

## COUNSELING SERVICES

Student Counseling Services offers no cost, confidential counseling for UAB students related to physical, emotional, social, intellectual, or spiritual concerns. Student Counseling Services is located in the Student Health and Wellness Center at 1714 9<sup>th</sup> Avenue South (3<sup>rd</sup> Floor), Birmingham, AL. 35233. For more information, call (205) 934-5816 or <https://www.uab.edu/students/counseling/>.

## DISABILITY SUPPORT SERVICES (DSS)

Accessible Learning: UAB is committed to providing an accessible learning experience for all students. If you are a student with a disability that qualifies under the Americans with Disabilities Act (ADA) and/or Section 504 of the Rehabilitation Act, and you require accommodations, please contact Disability Support Services for information on accommodations, registration, and procedures. Requests for reasonable accommodations involve an interactive process and consist of a collaborative effort among the student, DSS, faculty, and staff. If you have a disability but have not contacted Disability Support Services, please call (205) 934-4205 or visit [Disability Support Services](#).

If you are a student registered with Disability Support Services, it is your responsibility to contact the course instructor to discuss the accommodations that may be necessary in each course. Students with disabilities must be registered with DSS and provide an accommodation request letter before receiving academic adjustments. Reasonable and timely notification of accommodations for the course is encouraged and provided to the course instructor so that the accommodations can be arranged.

## DRUG SCREEN

Students in SHP programs are required by policy to undergo a drug screen using the school's approved vendor, [CastleBranch](#), at the time of program admission, and again, prior to placement in a fieldwork placement (clinical, internship, practicum, residency, etc.). Additional screens may be required by the individual sites therefore, students should work with the program to ensure compliance requirements are met. Instructions for requesting the drug screens are provided to students by their programs.

**The Office of Academic and Faculty Affairs is responsible for ensuring student compliance throughout the program. Students found to be non-compliant will not be allowed to matriculate in the program (orientation, attend class, fieldwork placement, etc.) until all requirements are met. Program Directors, Fieldwork Coordinators, and students will be notified of non-compliance and a hold will be placed on the students' account.**

- The initial background check must be completed prior to the first day of class.
- Subsequent background checks must be completed prior to the first day of the semester of a fieldwork placement (clinical, internship, practicum, residency, etc.).

## EMERGENCIES

Report suspicious or threatening activity to the UAB Police Department immediately. Law officers are available 24 hours, seven days a week. Also, more than 300 emergency blue light telephones connected directly to the police dispatch are located throughout campus.

**UAB Police:** Dial 911 *from a campus phone*

or call: (205) 934-3535 | (205) 934-HELP (4357) | (205) 934-4434

Emergencies affecting campus are communicated via the following:

- UAB Severe Weather & Emergency Hotline: (205) 934-2165
- University home web page: [www.uab.edu](http://www.uab.edu)
- Webpage: [www.uab.edu/emergency](http://www.uab.edu/emergency)
- Announcements on BlazerNET
- Cell phone messages and SMS text – register for B-ALERT notices via <https://idm.uab.edu/ens/b-alert>

## FERPA TRAINING

The Family Educational Rights and Privacy Act (FERPA) of 1974 provides protection for all educational records related to students enrolled in an educational program. Information about your rights and protection of your records is available at the following site: [FERPA](#). If you have questions or concerns about FERPA issues, you may email [FERPA@uab.edu](mailto:FERPA@uab.edu). All SHP students are required to complete [FERPA Training](#). Compliance with the training requirement is monitored monthly.

## FINANCIAL AID

Financial Aid Counselors are available each day in the One Stop Student Services Office located in the Hill Student Center, 1400 University Blvd. Suite 103, Birmingham, AL 35233. If you have general questions, you can call the Office of Student Financial Aid at (205) 934-8223 or send an email to [finaid@uab.edu](mailto:finaid@uab.edu). For additional financial aid information: [Cost & Aid](#).

## FOOD SERVICES

Dining facilities available on campus closest to the SHP buildings include the Commons on the Green – located on the Campus Green, south of 9th Avenue and the Campus Recreation Center. For additional information about meal plans and campus dining facilities: [Student Dining](#).

## GRADUATE SCHOOL

The UAB Graduate School offers doctoral programs, post-master's specialist programs, and master's level programs. Graduate programs in SHP are coordinated through the Graduate School and students must adhere to the Graduate School policies and procedures. Graduate School information for current students is available at [Graduate School](#). Policies and Procedures for the Graduate School can be located in the [Graduate School Catalog](#).

## GRADUATION

All students must complete an application for degree six months prior to graduating and no later than the deadline in the academic calendar. The University holds commencement every semester. Check the commencement website for the most current information: [UAB Commencement](#).

## HEALTH INSURANCE

To ensure that all students have adequate health care coverage, including ongoing primary and specialty care, the University of Alabama at Birmingham (UAB) requires all students to have major medical health insurance. Students can provide proof of their own private coverage or be enrolled in the Student Health Insurance Plan. The plan is a 1-year commercial policy provided by United HealthCare and is re-negotiated annually. This policy is a comprehensive health insurance policy at an affordable cost that is specifically designed to meet the needs of UAB Students. If you are required to have insurance but have sufficient coverage on another plan and wish to opt out of the Student Health Insurance Plan, you are required to submit a waiver to Student Health Services at the beginning of every semester. More information including submitting a waiver can be found at this website: [Student Health Insurance Waivers](#).

## HIPAA TRAINING

The Health Insurance Portability and Accountability Act (HIPAA) includes significant requirements for protecting individual privacy of health information. All students in the School of Health Professions must complete an online tutorial and be tested on HIPAA regulations at the time of program admission. A BlazerID is required to access the training site, located at [HIPAA](#). Compliance with the training requirement is monitored monthly.

## HONOR SOCIETIES

All students in the School of Health Professions are eligible for consideration for the following society memberships.

- Alpha Eta Society – The UAB Chapter of this Society recognizes students registered in the final term of a baccalaureate or graduate health professions program. Inductees must have a cumulative grade point average of 3.0 (4.0 = A) and be in the upper 10% of their program. Nominations are made by program directors in spring and summer terms.
- Phi Kappa Phi – This is the oldest, and most selective, all-discipline honor society in the nation. Membership is by invitation to the top 7.5% of junior students and the top 10% of seniors and graduate students. Nominations are made by program directors.

## IMMUNIZATION POLICY

To provide a safe and healthy environment for all students, faculty, and staff at the University of Alabama at Birmingham (UAB), first-time entering students, international students and scholars, and

students in clinical & non-clinical programs, provide proof of immunization against certain diseases: [Student Immunizations](#).

## **INSTITUTIONAL REVIEW BOARD FOR HUMAN USE (IRB)**

Student researchers must comply with all requirements for protection of human subjects. Detailed information is available on the [IRB website](#).

## **INTELLECTUAL PROPERTY**

Intellectual property refers to an asset that originated conceptually, such as literary and artistic works, inventions, or other creative works. These assets should be protected and used only as the creator intends. Training materials defining inventor status, patent criteria, and other intellectual property issues are available at: [University Policies on Patents, Copyright, and Intellectual Property](#).

## **LACTATION CENTERS**

Through the work of the UAB Commission on the Status of Women, the University has provided several lactation centers for students, faculty, and staff across the campus. [Center locations](#). The School of Health Professions' lactation room is in the Susan Mott Webb Nutrition Sciences Building at 1675 University Blvd, Room 219A, Birmingham, AL 35233. Female students enrolled in the School of Health Professions have access to the room via their student ID/OneCard. If you cannot access the room, contact the building administrator, Julia Tolbert-Jackson at (205) 934-4133.

## **LIBRARIES AND LEARNING RESOURCE CENTER**

UAB's libraries house excellent collections of books, periodicals, microforms, and other media. Students have online remote access to catalogs and online collections. Computers are available for student use during regular hours of operation. [UAB Libraries](#).

### **SHP Learning Resource Center (LRC)**

The School of Health Professions Learning Resource Center (LRC) provides a unique set of enterprise solutions that promote an exciting, intriguing, and innovative learning environment. It provides a state-of-the-art media studio; audio/visual support; and information technology management of public, classroom, and testing labs.

Location: 1714 9<sup>th</sup> Avenue South (2<sup>nd</sup> Floor), Birmingham, AL. 35233.

Phone: (205) 934-5146

Email: [shplrc@uab.edu](mailto:shplrc@uab.edu)

### **Lister Hill Library of the Health Sciences**

This is the largest biomedical library in Alabama, and one of the largest in the south. Located across the crosswalk from the School, the LHL has extension libraries in University Hospital and The Kirklin Clinic. Dedicated librarians hold "office hours" in the Learning Resource Center weekly.

Location: 1700 University Blvd. Birmingham, AL. 35233

Website: <https://library.uab.edu/locations/lister-hill>



Phone: (205) 975-4821

### **Mervyn H. Sterne Library**

A collection of more than one million items supporting teaching and research in the arts and humanities, business, education, engineering, natural sciences and mathematics, and social and behavioral sciences.

Location: 917 13<sup>th</sup> Street South, Birmingham, AL. 35233

Website: <https://library.uab.edu/locations/sterne>

Phone: (205) 934-6364 (Reference) | (205) 934-4338 (User Services)

## **NON-ACADEMIC MISCONDUCT POLICY**

The Student Conduct Code promotes honesty, integrity, accountability, rights, and responsibilities expected of students consistent with the core missions of the University of Alabama at Birmingham. This Code describes the standards of behavior for all students, and it outlines students' rights, responsibilities, and the campus processes for adjudicating alleged violations. Behavior that violates UAB standards of conduct listed within the Student Conduct Code and elsewhere will be subject to disciplinary action through the appropriate conduct process. Whether it is determined that an individual or group is responsible for the violation(s), either by direct involvement or by condoning, encouraging, or covering up the violation, appropriate response will occur with respect to the individual(s) and/or group involved.

[Undergraduate Non-Academic Policies](#)

[Graduate Non-Academic Policies](#)

## **ONE STOP STUDENT SERVICES**

If you have questions or need assistance with an academic or administrative process, the UAB One Stop is where to go! Advisors will help you solve your problem or do the legwork for you if another UAB resource is needed. One Stop is located in the Hill Student Center, 1400 University Blvd. Suite 103, Birmingham, AL 35233. You may contact the [One Stop](#) office by phone or email at (205) 934-4300; (855) UAB-1STP [(855) 822-1787]; [onestop@uab.edu](mailto:onestop@uab.edu).

## **PARKING**

Student vehicles must be registered with UAB Parking and Transportation Services, located at 608 8<sup>th</sup> Street South, Birmingham AL. 35294. The office is open Monday – Friday from 7:30am – 5:00pm. Parking is allocated on a first-come, first-served basis. Parking fees are established by location, payable by semester or year, and are billed to the student's account. For additional information: [UAB Student Parking](#).

## **PLAGIARISM AND TURNITIN**

Plagiarism is academic misconduct that will result in a grade of zero and may result in dismissal from the School of Health Professions and UAB (see Academic Integrity Policy). All papers submitted for grading

in any SHP program may be reviewed using the online plagiarism monitoring software. Please note that all documents submitted to [Turnitin.com](https://www.turnitin.com) are added to their database of papers that is used to screen future assignments for plagiarism.

## RECREATION CENTER

The [Campus Recreation Center](#), located at 1501 University Blvd, Birmingham, AL 35233, is open to faculty, staff, students, and their families. A valid student identification card or membership card is required for access. Facilities include basketball courts, racquetball courts, weight rooms, swimming pools, exercise rooms, and indoor track.

## SCHOOL OF HEALTH PROFESSIONS AWARDS

All students in the School of Health Professions are eligible for consideration for the following awards.

- Alfred W. Sangster Award for Outstanding International Student – This award is presented annually to an international student in recognition of their academic and non-academic achievements.
- Cecile Clardy Satterfield Award for Humanism in Health Care – This award is made annually to recognize one outstanding student for humanitarianism, professionalism, and commitment to health care.
- Charles Brooks Award for Creativity – This award is made annually in recognition of creative accomplishments such as written publications or artistic contributions which complemented the student's academic activities.
- Dean's Leadership and Service Award – Presented to a maximum of three outstanding SHP students annually, this award recognizes leadership to the School, UAB, and the community.

For more information: [UAB School of Health Professions Student Awards and Scholarships](#). Please refer to the program section of this handbook for awards available to students in individual programs.

## SCHOOL OF HEALTH PROFESSIONS SCHOLARSHIPS

The SHP has several scholarship opportunities for students enrolled in SHP programs. The Scholarship Committee, comprised of faculty from each department, reviews and, selects awardees.

Scholarships available to students in any SHP program are the following:

*The Carol E. Medders Endowed Scholarship in Health Professions* was established by Carol Medders, former Director of Admissions for the School of Health Professions Student Services. Applicants must be currently enrolled in a full-time, degree-granting program in the School of Health Professions and should demonstrate academic excellence and financial need. The award recipient should be enrolled in a program that has a competitive application process and academic course load that prohibits them from holding full-time employment. This scholarship is awarded for the Spring Semester.

The *Ethel M. and Jesse D. Smith Endowed Nursing and Allied Health Scholarship* is an endowment that provides scholarships for both the School of Health Professions and School of Nursing. Applicants must be enrolled in a School of Health Professions undergraduate program and be a resident of the state of Alabama. Applicants should demonstrate academic excellence and financial need. This scholarship is awarded in the Fall.

The *Lettie Pate Whitehead Foundation* provides funding for scholarships focused on the foundation's founding mission—to provide financial assistance to women who express financial need in nine southeastern states. At the University of Alabama at Birmingham, Lettie Pate Whitehead Scholarships are awarded to women who, in addition to financial need, have an interest in pursuing studies in nursing or other health-related professions. Both undergraduate and graduate students within the Schools of Nursing and Health Professions are eligible. This scholarship is awarded each semester.

The *Dr. Edward D. and Sandra Dunning Huechtker Endowed Memorial Award* provides assistance to deserving students in need of financial support to continue in the pursuit of their goal of a career in the health professions. This award is open to undergraduate and graduate students enrolled in one of the School of Health Professions majors. Applicants should demonstrate academic excellence and financial need. This scholarship is awarded in the Spring Semester.

The *School of Health Professions Junior Advisory Board Endowed Scholarship* was established to provide financial awards assisting students with the completion of professional licensure and certification exams necessary to practice in their fields and/or the costs associated with professional development and job preparation. This scholarship is awarded in the Spring semester.

For more information: [UAB School of Health Professions Student Awards and Scholarships](#). Application announcements are made by the Office of Academic and Faculty Affairs. Many programs in SHP also have scholarships available to currently enrolled students in those programs. Please refer to the program section of this handbook for more information.

## SHARED VALUES

Collaboration, integrity, respect, and excellence are core values of our institution and affirm what it means to be a UAB community member. A key foundation of UAB is diversity. At UAB, everybody counts every day. UAB is committed to fostering a respectful, accessible and open campus environment. We value every member of our campus and the richly different perspectives, characteristics and life experiences that contribute to UAB's unique environment. UAB values and cultivates access, engagement and opportunity in our research, learning, clinical, and work environments. The School of Health Professions aims to create an open and welcoming environment and to support the success of all UAB community members.

## SOCIAL MEDIA

Social media can serve as useful communication tools. However, health professions students should use the forums judiciously. The school's official sites are the following:

- Twitter: [https://twitter.com/UAB\\_SHP](https://twitter.com/UAB_SHP)
- Facebook: <www.facebook.com/UABSHP>
- YouTube: <www.youtube.com/uabshp>
- Vimeo: <http://vimeo.com/uabshp>
- LinkedIn: [UAB SHP LinkedIn](#)
- Website: [www.uab.edu/shp](http://www.uab.edu/shp)

For more information: [UAB Social Media Guidelines](#).

## STUDENT HEALTH SERVICES

The University provides prevention, counseling, and treatment services to students through Student Health Services (SHS) located at 1714 9<sup>th</sup> Avenue South (3<sup>rd</sup> Floor), Birmingham, AL. 35233. The clinic is open from 8:00am – 5:00pm Monday – Thursday; 9:00am – 5:00pm Friday. They are closed for lunch between 12:00pm – 1:00 pm weekdays. For more information: [Student Health Services](#). Appointments may be scheduled by calling (205) 934-3580.

## TITLE IX

In accordance with Title IX, the University of Alabama at Birmingham does not discriminate on the basis of gender in any of its programs or services. The University is committed to providing an environment free from discrimination based on gender and expects individuals who live, work, teach, and study within this community to contribute positively to the environment and to refrain from behaviors that threaten the freedom or respect that every member of our community deserves. For more information about Title IX, policy, reporting, protections, resources and supports, please visit the UAB Title IX webpage for UAB's Title IX Sex Discrimination, Sexual Harassment, and Sexual Violence Policy; UAB's Equal Opportunity and Discriminatory Harassment Policy; and the Duty to Report and Non-Retaliation Policy. For more information: [UAB Title IX](#).

## TUITION AND FEES

Tuition and fees for the University are published annually under the "Students" tab of the UAB website. They may be paid through BlazerNET. SHP programs have specific fees attached to programs, courses, and/ or laboratories. For more information: [Tuition & Fees](#).

Payment deadlines for each semester are published on the official academic calendar. Please note that failure to meet payment deadlines can result in being administratively withdrawn from courses.

## WEATHER

Severe weather situations that may affect the safety of students, faculty, and staff are communicated through the same channels as other emergencies. For more information: [Emergency Management](#). Other information sources include:

- [B-ALERT System](#) (contact information must be setup and current)
- UAB Severe Weather & Emergency Hotline: (205) 934-2165
- WBHM Radio (90.3 FM)

### **WITHDRAWAL FROM COURSE / PROGRAM**

Withdrawal from a course or from your program is an official process and should be discussed with your academic advisor and / or program director. Most programs in the School of Health Professions are full-time and the curricula specifically sequenced. Withdrawal from a course may risk your wait time to register for the class again. You might have to wait for a full year before resuming enrollment in the program. Withdrawals are made through the UAB registration system via the Student Resources tab in BlazerNET. Notice of program withdrawal should be given in writing to the program director. For more information: [UAB Add/Drop and Withdrawal Policy](#).

## SECTION 2 – SHP AND UAB POLICIES

### SCHOOL OF HEALTH PROFESSIONS POLICIES

#### BACKGROUND CHECK AND DRUG SCREEN POLICY

With the exceptions noted below, students admitted to clinical and non-clinical programs in the School of Health Professions (SHP) will complete a routine criminal background check and drug screen using the approved vendor ([CastleBranch](#)). These screenings should be completed prior the first term of enrollment. Subsequent routine criminal background checks and drug screens using the approved school vendor will be completed prior to fieldwork placement (clinical, internship, practicum, residency, etc.).

Students enrolled in SHP undergraduate programs will complete a learning module in the campus learning management system by the first semester of enrollment. If a fieldwork placement (clinical, internship, practicum, residency, etc.) is required, students must complete criminal background checks and drug screens prior to the first day of the semester of a fieldwork placement.

- Fees for these screenings will be the responsibility of the student.
- The rules and regulations governing individual fieldwork placement sites may include additional provisions and/or more stringent guidelines which supersede this policy. Fees for these screenings are the responsibility of the student.
- Should your criminal background check contain issues, or you fail a drug screen that may prevent you from receiving or sitting for board certification/licensure, a representative from the Office of Academic and Faculty Affairs will contact you. Depending upon the outcome, students will have a registration hold placed on their account until in compliance and this may result in being dismissed from the program. See program's guidelines regarding specific consequences.

Programs requiring a criminal background check and drug screening by the end of the first semester of enrollment and again, prior to fieldwork placement (if applicable in the program requirements), are the following:

Administration Health Services, PhD  
Biomedical Sciences to Biotechnology Fast Track  
Biomedical Sciences to Clinical Laboratory Science Fast Track  
Biomedical Sciences to Health Physics Fast Track  
Biomedical Sciences to Nuclear Medicine & Molecular Imaging Sciences Fast Track  
Biomedical and Health Sciences, MS  
Biotechnology, MS  
Biotechnology, PhD  
Dietitian Education Program, Graduate Certificate  
Genetic Counseling, MS  
Health Administration (Residential), MSHA  
Health Care Management to Healthcare Quality and Safety Fast Track  
Health Care Management to Health Informatics Fast Track

Health Care Management to Occupational Therapy Doctorate Fast Track  
Health Physics, MS  
Medical Laboratory Science, MS  
Nuclear Medicine & Molecular Imaging Sciences, MS  
Nutrition Sciences, MS  
– Dietetic Internship Clinical Track  
– Dietitian Education Program  
– Research Track  
Nutrition Sciences, PhD  
Occupational Therapy, OTD – (entry level)  
Physical Therapy, DPT  
Physician Assistant Studies, MSPAS  
Rehabilitation Science, PhD

The following students enrolled in SHP undergraduate programs will complete a learning module in the campus learning management system by the first semester of enrollment. If a fieldwork placement (clinical, internship, practicum, residency, etc.) is required, students must complete criminal background checks and drug screens prior to the first day of the semester of a fieldwork placement.

Health Care Management, BS  
Biomedical Sciences, BS  
Biobehavioral Nutrition and Wellness, BS  
Disability Studies and Rehabilitation Science, BS

Programs waived from the Criminal Background Check and Drug Screening requirements are the following: \*

Applied Mixed Methods Research, Graduate Certificate  
Biotechnology Regulatory Affairs, Graduate Certificate  
Clinical Informatics, Graduate Certificate  
Health Administration (International and Executive tracks), MSHA  
Health Informatics, MSHI  
Healthcare Finance Management, Graduate Certificate  
Healthcare Leadership, DSc  
Healthcare Leadership, Graduate Certificate  
Healthcare Quality and Safety, MS  
Healthcare Quality and Safety, Graduate Certificate  
Health Services Research, MS  
Healthcare Simulation, MS  
Healthcare Simulation, Graduate Certificate  
Nutrition for Community Health, Graduate Certificate  
Nutrition Sciences, MS  
– Clinical Track-Prior Learning  
– Lifestyle Management and Disease Prevention Track

Low Vision Rehabilitation, Graduate Certificate  
Multi-Tiered Approach to Trauma, Graduate Certificate  
Occupational Therapy Doctorate (Post Professional)  
Physical Therapy Residencies (Neurologic, Orthopedic)  
Primary Care Physical Therapy for Underserved Populations, Graduate Certificate

\*Students enrolled in exempt programs who participate in a course(s) incorporating community, corporate or other high impact, out-of-classroom activities such as service learning, capstone projects or other hands-on learning experiences, may be required by placement sites to submit background check and drug screening results. Students are responsible for the fees associated with such screening.





## STUDENT INSTRUCTIONS FOR UNIVERSITY OF ALABAMA AT BIRMINGHAM SCHOOL OF HEALTH PROFESSIONS

### About CastleBranch.com

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CastleBranch is a secure platform that allows you to order your background check & drug test online. Once you have placed your order, you may use your login to access additional features of CastleBranch, including document storage, portfolio builders and reference tools. CastleBranch also allows you to upload any additional documents required by your school.

### Order Summary

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#### Required Personal Information

- o In addition to entering your full name and date of birth, you will be asked for your Social Security Number, current address, phone number, and e-mail address.

#### Drug Test (LabCorp or Quest Diagnostics)

- o Within 24-48 hours after you place your order, the electronic chain of custody form e-chain will be placed directly into your CastleBranch account. This e-chain will explain where you need to go to complete your drug test.

#### Payment Information

- o At the end of the online order process, you will be prompted to enter your Visa or MasterCard information. Money orders are also accepted, but will result in a \$10 fee and additional turn-around-time.

### Place Your Order

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Go to: [www.castlebranch.com](http://www.castlebranch.com) and enter package code:

AH01 - Background Check and Drug Test

You will be required to enter your program under "Student Information" classification

You will then be directed to set up your CastleBranch profile account.

### View Your Results

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Your results will be posted directly to your CastleBranch profile account. You will be notified if there is any missing information needed in order to process your order. Although 95% of background check results are completed within 3-5 business days, some results may take longer. Your order will show as "In Process" until it has been completed in its entirety. Your school's administrator can also securely view your results online with their unique username and password. If you have any additional questions, please contact the Service Desk at 888.723.4263 x 7196 or visit the website to submit your question at: <https://www.castlebranch.com/contact-us>.

## **DISMISSAL OF STUDENT FOR FAILURE TO MAKE SATISFACTORY ACADEMIC PROGRESS**

[Dismissal of Student and Appeal Process](#)

## **EMERGENCY PLAN – SHPB/LRC/WEBB**

[SHPB/LRC/WEBB Emergency Plan](#)

# UAB POLICIES

## ACADEMIC PROGRESS

[GRADUATE](#)

[UNDERGRADUATE](#)

## HEALTH

[IMMUNIZATIONS](#)

[NEEDLE STICKS AND EXPOSURES](#)

## INCLUSIVENESS

[EQUAL OPPORTUNITY AND DISCRIMINATORY HARASSMENT](#)

## POLICE AND PUBLIC SAFETY

[CAMPUS SAFETY](#)

[FIREARMS, AMMUNITION, AND OTHER DANGEROUS WEAPONS](#)

## RESEARCH AND SCHOLARLY ACTIVITIES

[ACADEMIC INTEGRITY CODE](#)

[ETHICAL STANDARDS IN RESEARCH AND OTHER SCHOLARLY ACTIVITIES](#)

[PATENT](#)

## SUBSTANCE USE/ABUSE

[ALCOHOLIC BEVERAGES, USE AND CONSUMPTION](#)

[DRUG FREE CAMPUS](#)

[NON-SMOKING](#)

## TECHNOLOGY

[TECHNOLOGY RESOURCES](#)

## SECTION 3 – PROGRAM POLICIES

### PROGRAM INFORMATION

#### MISSION

The mission of the Master of Science in Nuclear Medicine and Molecular Imaging Sciences (NMMIS) program in the School of Health Professions at the University of Alabama at Birmingham (UAB) is to provide comprehensive didactic and clinical educational experiences reflecting 21st century workforce demands that prepare graduates to be competent practitioners and innovative leaders within the nuclear medicine profession.

#### GOALS

1. Provide students with the knowledge and skills necessary to secure employment as an entry-level nuclear medicine technologist.
2. Provide students with the knowledge necessary to pass national certification.
3. Provide health care employers with competent graduates.
4. Offer educational activities and materials to the health care community.
5. Provide help for students with future graduate school request.

#### STUDENT LEARNING OUTCOMES

1. Knowledge required for entry level practice.
2. Cognitive/Psychomotor skills required for practice
3. Application of knowledge to practice in field of Nuclear Medicine & Molecular Sciences
4. Apply concepts of nuclear medicine toward a non-thesis research project resulting in a poster, paper, abstract or peer-reviewed end product.
5. Demonstrate application of theories, principles, responsibilities, and skills necessary for the practice of nuclear medicine in one of the chosen specializations as an imaging specialist, or radiation safety officer, or independent researcher.
6. Demonstrate clinical performance expertise in diverse nuclear medicine healthcare settings.
7. Integrate appropriate radiation safety measures in the professional environment.
8. Analyze and articulate the impact of leadership, education, and management strategies in healthcare professions.
9. Apply the necessary skills to produce a scholarly paper of research findings in a format for publication and oral presentation.
10. Collaborate as a member of an interprofessional team in a manner that respects diversity and promotes ethical integrity in professional practice and community service.

## FACULTY & STAFF



**Amy Brady, M.A.Ed., CNMT**

Program Director and Assistant Professor

Department of Clinical & Diagnostic Sciences

1716 9th Avenue South, SHPB 446

Birmingham, AL 35294

(205) 934-3427

[amybrady@uab.edu](mailto:amybrady@uab.edu)

Amy Brady is the Program Director and Assistant Professor for the UAB Master of Science in Nuclear Medicine & Molecular Imaging Sciences Program. She has been in clinical practice for over 10 years serving as a staff nuclear medicine technologist, clinic supervisor, and Nuclear Medicine Department manager. She has served as a lab instructor, teacher, clinical coordinator and faculty instructor prior to assuming the role of program director. Mrs. Brady received her undergraduate Bachelor of Science degree in Biology/Chemistry and Nuclear Medicine Technology from UAB. She also obtained a Master of Education degree from the UAB School of Education. She is an active member of the Society of Nuclear Medicine and Molecular Imaging (SNMMI) and the SNMMI – Technologist Section (SNMMI-TS) and was the Continuing Education Editor of the Journal of Nuclear Medicine Technology. She has served as president of the Southeastern Chapter of the SNMMI-TS and the Alabama Society of Nuclear Medicine (ASNM). She has served as a director and item writer on the Nuclear Medicine Technology Certification Board (NMTCB).

**Courses Taught:** Patient Care, Human Pathophysiology, Registry Review, Clinical Practicum, Research, Radiopharmacy



**Norman E. Bolus, MSPH, MPH, CNMT, FSNMMI –TS**

Assistant Professor Emeritus

Department of Clinical & Diagnostic Sciences

[bolusn@uab.edu](mailto:bolusn@uab.edu)

Norman Bolus is an Assistant Professor Emeritus for the UAB Master of Science in Nuclear Medicine & Molecular Imaging. He was in clinical practice for 3 years as a staff nuclear medicine technologist prior to joining the UAB School of Health Professions. He has served in many capacities for the program as lab instructor, teacher, assistant professor and clinical coordinator before assuming the role of program director in 2007. Mr. Bolus received his undergraduate Bachelor of Science degree in Biology/Chemistry in 1988 and a BS degree in Nuclear Medicine Technology in 1989 from UAB. He also obtained a Master in Public Health in Occupational Health and Safety from UAB in 1998 and has an additional Master of Science degree from the UAB School of Public Health in Environmental Toxicology. He is an active member of the Society of Nuclear Medicine and Molecular Imaging (SNMMI) and the SNMMI - Technologist Section (SNMMI-TS) and was the Editor-in-Chief of the Journal of Nuclear Medicine Technology from January 2012 through December 2017. He is a past president of the SNMMI-TS. He is also a past president of the Southeastern Chapter of the SNMMI-TS and received The Marshall Brucer Award in October 2017 from the SECSNMMI for distinguished service. He is a two-time past president of the Alabama Society of Nuclear Medicine and currently serves as its Associate Treasurer.

**Courses Taught:** Radiopharmacy and Pharmaceuticals lab and Patient Care



**Remo George, PhD, ABSNM, CNMT**

Assistant Professor

Department of Clinical and Diagnostic Sciences

1716 9th Avenue South, SHPB 452

Birmingham, AL 35294

205-934-7378

[remo@uab.edu](mailto:remo@uab.edu)

Remo George is an Assistant Professor in the UAB Nuclear Medicine and Molecular Imaging Sciences Program. He was in clinical practice for over 10 years in Indiana, Michigan & India prior to joining the school of health professions as a faculty member. He has extensive experience in nuclear medicine procedures, radiopharmaceuticals, and instrumentation, along with training in PET applications. He is also a U.S. nuclear regulatory commission licensed medical radiation safety officer. He is professionally certified as a nuclear medicine technologist by the nuclear medicine technology certification board (NMTCB-CNMT) and as a nuclear medicine scientist in radiation protection specialty (diplomate, American board of science in nuclear medicine (ABSNM)). Dr. George received his PhD in Biochemistry and Molecular Genetics from the school of medicine at the University of Alabama at Birmingham in 2014. His current research interests involve the use of nanoparticles for radiation protection and therapy, and the upregulation of sodium iodide symporter in cancer cells for theranostic applications.

**Courses taught:** Nuclear Medicine Instrumentation I, Nuclear Medicine Procedures I, Regulations Radiation Protection & Biology, and Research-based courses



**Krystle W. Glasgow, MIS, CNMT, NMTCB(CT), NMAA, FSNMMI-TS**

Instructor, Clinical Coordinator

Department of Clinical and Diagnostic Sciences

1716 9th Avenue South, SHPB 442

Birmingham, AL 35294

205-996-6597

[krystlew@uab.edu](mailto:krystlew@uab.edu)

Krystle Glasgow is the clinical coordinator for the UAB Nuclear Medicine & Molecular Sciences Program. She was in clinical practice for 5 years prior to joining the School of Health Professions. Mrs. Glasgow received her undergraduate Bachelor of Science degree in Nuclear Medicine & Molecular Sciences with a concentration in Computed Tomography in 2010 from UAB. She obtained a Master of Imaging Science at The University of Arkansas for Medical Science in Little Rock Arkansas. She is a certified Nuclear Medicine Technologist and also a Certified Nuclear Medicine Advanced Associate (NMAA). She is an active and contributing member of the Alabama Society of Nuclear Medicine and the Society of Nuclear Medicine and Molecular Imaging, She awarded a Fellow of the Technologist Section in 2020.

**Courses taught:** Clinical Practice I, Clinical Practice II, Clinical Practice III, Intro to Nuclear Medicine, Patient Care and Communication Skills, Medical Radiation Physics Lab, Nuclear Medicine Instrumentation I, Nuclear Medicine Instrumentation II, Procedures I, Procedures II, Analysis of Scientific Publication, Regulations/Radiation Protection/Biology, CT Clinical Practice and MR Clinical Practice





**Liliana Navarrete, M.S.**

Director of Professional Development and Assistant Professor

Department of Clinical and Diagnostic Sciences Chair Office

1716 9th Avenue South, SHPB 435

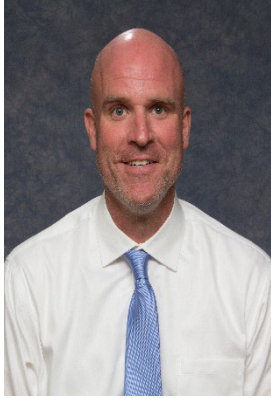
Birmingham, AL 35294

205-975-2924

[lilina@uab.edu](mailto:lilina@uab.edu)

Liliana Navarrete is the Director of Professional Development and Assistant Professor for the UAB Clinical and Diagnostic Sciences Department. She has a Bachelor of Science and Master of Science degrees in Physics with emphasis in Condensed Matter. She also obtained a second Master of Science degree in Physics, and an Outstanding Thesis Award from The University of Alabama College of Arts and Sciences. She was a research assistant for 4 years at the Center for Materials for Information Technology (University of Alabama) prior to joining the UAB School of Health Professions in 2008.

**Courses taught:** Nuclear Medicine Physics & Instrumentation, Physics of Diagnostic Imaging, CT Physics and Instrumentation, Professional Skills Development.



**Matthew K. Ward, Ph.D., MS**

Assistant Professor

Department of Clinical and Diagnostic Sciences

1716 9th Avenue South, SHPB 433

Birmingham, AL 35294

205-975-8835

[mattward@uab.edu](mailto:mattward@uab.edu)

Matthew Ward is an assistant professor in the program for the MRI component along with the new MRI Certificate program. Dr. Ward received his undergraduate Bachelor of Science degree in Psychobiology at Centre College. He obtained a master's in Nuclear Medicine Technology in 2017 and completed his PhD. in Psychology (Behavioral Neuroscience ) at the University of Alabama at Birmingham. Dr. Ward has had over 5 years of clinical experience in MRI.

**Courses Taught:** MRI coursework, Radiopharmacy and Pharmacology, Research coursework



**John Baldwin, D.O.**

**Program Director, Division of Molecular Imaging and Therapeutics  
Residency Program, Program Director, Division of Molecular Imaging and  
Therapeutics Fellowship Program**

**Associate Professor, Division of Molecular Imaging and Therapeutics**

**Department of Clinical and Diagnostic Sciences**

625 19<sup>th</sup> Street South, JT 775

Birmingham, AL 35294

205-934-1388

[jbaldwin@uabmc.edu](mailto:jbaldwin@uabmc.edu)

Jon Baldwin, D.O. served as a chief nuclear radiology resident at UAB. He holds a D.O. degree from Nova Southeastern University as well as a B.S. in Biology and an M.S. in Biomedical Sciences from Barry University. Prior to entering medical school, he worked as a Health Physicist for the State of Florida.

Dr. Baldwin is the Medical Director for the UAB Master of Science in Nuclear Medicine & Molecular Sciences Program. He also serves as Program Director of the Nuclear Medicine residency and the Assistant Program Director of the Diagnostic Radiology residency. He also serves on the UAB Dean's Council for Graduate Medical Education. In addition to his UAB duties, he serves as the Chair of the ACGME Nuclear Medicine Resident Review Committee, the Society of Nuclear Medicine and Molecular Imaging Board of Directors, and is a Board Member of the Nuclear Medicine Technologist Certification Board. He is also active as an officer or board member of many regional and national Nuclear Medicine organizations



**Emily A. Caffrey, Ph.D., CHP**

Health Physics Program Director and Assistant Professor

Department of Clinical and Diagnostic Sciences

Health Physics Program

1716 9th Avenue

South Birmingham, AL 35294

P: 541.250.1975 | [emilycaf@uab.edu](mailto:emilycaf@uab.edu) | SHPB 445

Emily Caffrey is the Program Director and an Assistant Professor for the UAB Master of Science in Health Physics Program. She has a B.S. in Nuclear Engineering and a Ph.D. in Radiation Health Physics and Statistics from Oregon State University. Her technical expertise is in ionizing radiation dosimetry and statistics. She obtained the title of Certified Health Physicist (CHP) in 2021.

Emily is a member of the National Council on Radiation Protection and Measurements (NCRP). She is very active in the Health Physics Society (HPS), serving as the Editor in Chief of the “[Ask The Experts](#)”, the society’s most successful public information and outreach endeavor that reaches over 1.5 million individuals annually. Emily also serves on the HPS Program Committee, which develops and manages the technical program of the society’s meetings.

Emily is a recipient of the HPS Elda E. Anderson Award for outstanding early-career health physicists. In 2019 she was selected as one of 10 recipients of Oregon State’s Council of Outstanding Early Career Engineers. This award is reserved for Oregon State Alumni who have distinguished themselves through professional practice, service to OSU, the profession, or society at large.

**Courses Taught:** RSO Supervised Practice, Research coursework



**Charles Wilson, Ph.D., CHP**

Department of Clinical and Diagnostic Sciences

Health Physics Program

Assistant Director and Assistant Professor

205-975-1215

Cawilso2@uab.edu

Charles Wilson is the Assistant Director and Assistant Professor of the Health Physics Program here at UAB. He has a B.S. in Physics and a MS in Health/Medical Physics at Louisiana State University. In 2019, Dr. Wilson received his PhD in Environmental Science from Louisiana State University. He has obtained the title of Certified Health Physicist (CHP) in 2021.

Dr. Wilson's research is focused on practice solutions for industry problems regarding radiation safety. He has over a decade of experience in the Health Physics industry also with experience as a Radiation Safety Officer (RSO).

**Courses Taught:** RSO Supervised Practice, Research Coursework, Regulations/Radiation Protection

**Elizabeth Cloyd, BS, R.T.(R)(CT)(MR)**

Credentialed Course Instructor

Department of Clinical and Diagnostic Sciences

1716 9th Avenue South, SHPB 433

Birmingham, AL 35294

205-975-8835

[epcloyd@uab.edu](mailto:epcloyd@uab.edu)

Elizabeth Cloyd is a Credentialed Course Instructor in the UAB Nuclear Medicine & Molecular Sciences Program. She obtained a Bachelor of Science degree in Radiologic Technology at Bluefield State College. Mrs. Cloyd has served in clinical practice and has had the role of CT/MRI Manager for Brookwood Medical Center. Her areas of instruction include Computed Tomography Procedures, Magnetic Resonance Imaging, and Cross-sectional Anatomy.

**Courses Taught:** CT coursework



**Muhammad Maqbool, Ph.D., MS, MSc**

Associate Professor

Department of Clinical and Diagnostic Sciences

1716 9th Avenue South, SHPB 450

Birmingham, AL 35294

205-934-7637

[mmaqbool@uab.edu](mailto:mmaqbool@uab.edu)

Muhammad Maqbool is an Associate Professor in the Health Physics Program. Prior to joining UAB in 2017, he worked as an Associate Professor of Physics at Ball State University, Indiana for 9 years. His first degree came from the University of Peshawar, Pakistan, in 1994. In 1998, he received his MS degree in Medical & Radiation Physics from the University of Birmingham, UK, and his Ph.D. degree in Physics from Ohio University, USA, in 2005. Dr. Maqbool has published over 5 dozen peer-reviewed research papers and book chapters in the areas of Condensed Matter Physics, Photonics, Health Physics, and Biophotonics. In 2016, he was awarded a US Patent for his invention of a Titanium infrared micro laser on optical fiber. He serves on the editorial board of journals Nanoscale Research Letters and Global Journal of Advanced Radiation Research. He is a member of various professional organizations, including the Health Physics Society, American Physical Society, Materials Research Society and Indiana Academy of Science.

**Courses taught:** Principles of Health Physics, Physics of Diagnostic Imaging, Principles of Dosimetry, Nonionizing Radiation, Advanced Radiation Biology, and Non-Thesis Research

## ADMINISTRATIVE STAFF



### **Dustin Shaw**

Program Manager II

Department of Clinical and Diagnostic Sciences

1716 9th Avenue South, SHPB 434

Birmingham, AL 35294

205-975-8835

[DSHAW84@UAB.EDU](mailto:DSHAW84@UAB.EDU)

## UAB NMMIS CLINICAL ADVISORY BOARD COMMITTEE

The Clinical Advisory Committee plays a crucial role in overseeing the NMMIS program. This committee includes each Affiliate Education Supervisor (AES), along with other members appointed by the program. On an annual basis, the program shall hold a meeting to apprise the committee of program issues and ask for feedback to improve the program's policies, procedures and curriculum.

### Committee Membership

Name	Email Address	Current Position/Address/Phone	Specialty
Amy Brady	<a href="mailto:amybrady@uab.edu">amybrady@uab.edu</a>	Program Director, UAB NMMIS	
Krystle Glasgow	<a href="mailto:krystlew@uab.edu">krystlew@uab.edu</a>	Clinical Coordinator, UAB NMMIS	
Dr. Remo George	<a href="mailto:remogeorge@uab.edu">remogeorge@uab.edu</a>	Assistant Professor, UAB NMMIS	
Dr. Matthew Ward	<a href="mailto:mattward@uab.edu">mattward@uab.edu</a>	Assistant Professor, UAB NMMIS	
Dr. Jon Baldwin	<a href="mailto:jbaldwin@uabmc.edu">jbaldwin@uabmc.edu</a>	Medical Director, UAB NMMIS	
Dustin Shaw	<a href="mailto:dshaw84@uab.edu">dshaw84@uab.edu</a>	Program Manager II, UAB NMMIS and HP	
Daniel Yoder	<a href="mailto:dyoder@uabmc.edu">dyoder@uabmc.edu</a>	Nuclear Medicine Hospital Manager	NM
Lucas Riley	<a href="mailto:lriley@uabmc.edu">lriley@uabmc.edu</a>	UAB Advanced Imaging Facility 1824 6 <sup>th</sup> Ave S., Birmingham, AL 35233 205-801-7561	PET/CT
David Kynard	<a href="mailto:dkynard@uabmc.edu">dkynard@uabmc.edu</a>	University of Alabama at Birmingham Hospital 625 19 <sup>th</sup> St. S., Birmingham, AL 35233	NM



		205-975-8325	
Patricia Headley	<a href="mailto:Patricia.Headley@tenethealth.com">Patricia.Headley@tenethealth.com</a>	Brookwood Baptist Medical Center 2010 Brookwood Medical Center Drive, Birmingham, AL 35209 205-877-1354	NM/PET/CT
Sharon Jordan	<a href="mailto:Sharon.jordan@childrensal.org">Sharon.jordan@childrensal.org</a>	Children's of Alabama 1600 7 <sup>th</sup> Ave S., Birmingham, AL 35233 205-939-9667	NM
Jay Roberson	<a href="mailto:jroberson@cardiologypc.com">jroberson@cardiologypc.com</a>	Cardiology, P.C. 801 Princeton Ave SW Suite 707 Building 1 Birmingham, AL 35211 205-786-8733	Outpatient Cardiac
Sharon Fedorenchik		Cullman Regional Medical Center 1912 AL-157, Cullman, AL 35058 256-737-2799	NM
Carmen Brown	<a href="mailto:carmen.brown@crmchospital.com">carmen.brown@crmchospital.com</a>	Cullman Regional Medical Center 1912 AL-157, Cullman, AL 35058 256-737-2799	NM
Cassandra Fuqua	<a href="mailto:cfuqua@cvapc.com">cfuqua@cvapc.com</a>	Cardiovascular Associates 200 Montgomery Hwy #225, Vestavia Hills, AL 35216 205-795-5033	Outpatient Cardiac
Craig Wolf	<a href="mailto:craig.wolf@dmhnet.org">craig.wolf@dmhnet.org</a>	Decatur Morgan Hospital 1201 7 <sup>th</sup> St SE, Decatur, AL 35601	NM

		256-973-2545	
Richard Croom	<a href="mailto:richard.croom@grandviewhealth.com">richard.croom@grandviewhealth.com</a>	Grandview Medical Group 3690 Grandview Pkwy, Birmingham, AL 35243 205-971-5218; 205-971-5219	NM
Carol Long	<a href="mailto:clong@heartsou">clong@heartsou</a> Carol Long <a href="http://thpc.com">thpc.com</a>	Heart South Cardiovascular Group, PC 1022 1 <sup>st</sup> St N #500, Alabaster, AL 35007 205-739-2043	Outpatient Cardiac
Tiffany Jennings	<a href="mailto:tiffjene@yahoo.com">tiffjene@yahoo.com</a>	UAB Medical West 995 9 <sup>th</sup> Ave SW, Bessemer, AL 35022 205-481-7190	NM
Sharon Berry	<a href="mailto:Sharon.berry2@bhsala.com">Sharon.berry2@bhsala.com</a>	Princeton Baptist Medical Center 701 Princeton Ave SW, Birmingham, AL 35211 205-783-3020	NM
Breona Dyess	<a href="mailto:bthurman@uabmc.edu">bthurman@uabmc.edu</a>	The Kirklin Clinic of UAB Hospital 2000 6th Ave S, Birmingham, AL 35233 205-801-7368; 205- 801-8577	Outpatient Cardiac
Crystal Garrett	<a href="mailto:crystal.garrett@ascension.org">crystal.garrett@ascension.org</a>	Ascension St. Vincent's East 50 Medical Park Dr E., Birmingham, AL 35235 205-838-3435; 205-838-3035	NM
Robert Wynn	<a href="mailto:Robert.wynn@ascension.org">Robert.wynn@ascension.org</a>	St. Vincent's P.E.T. Center, LLC 2728 10 <sup>th</sup> Ave S., Suite 300 Birmingham, AL 35202 205-930-2670	NM/PET/CT
*Clinical Staff from the program's affiliates are welcome			

## UAB NMMIS RADIATION SAFETY ADVISORY BOARD

The Radiation Safety Officer Advisory Board plays a crucial role in overseeing the Radiation Safety track at UAB. This collaborative board, comprised of experience radiation safety professionals, provides essential guidance and support to the program. The board will be used to review over the didactic curriculum and offer recommendations to make continuous improvements of the track.

### Board Membership (alphabetical)

Name	Email/Phone	Current Position	Areas of Interest
Amy Brady	<a href="mailto:amybrady@uab.edu">amybrady@uab.edu</a>	Program Director, NMMIS	Student Placement and Affiliations
Dr. Emily Caffrey	<a href="mailto:emilycaf@uab.edu">emilycaf@uab.edu</a>	Program Director, MHP	Dosimetry, radiation effects
Dr. Remo George	<a href="mailto:remogeorge@uab.edu">remogeorge@uab.edu</a>	Assistant Professor, NMMIS	
Robert Heath, Jr	<a href="mailto:rheath@uab.edu">rheath@uab.edu</a>	Director of Radiation Safety	
Dr. Sharon White	<a href="mailto:shlwhite@uabmc.edu">shlwhite@uabmc.edu</a>	Program Director, Imaging Medical Physics Residency Program Associate Professor, Division of Physics and Engineering Physicist, Division of Molecular Imaging and Therapeutics (Nuclear Medicine) Chair of the UAB Rad Safety Committee	PET, nuclear medicine
Dr. Charles Wilson	<a href="mailto:Cawilso2@uab.edu">Cawilso2@uab.edu</a>	Program Director and Assistant Professor, UAB	Particle accelerators, environmental health physics
Representative from the Alabama Department of Health – Alabama Office of Radiation Control	Phone: 334-290-6244		

## UAB NMMIS-MHP RESEARCH ADVISORY BOARD

The purpose of the Research Advisory Board is to expand student and faculty opportunities by bringing together different groups of researchers across the UAB campus and outside of UAB. The collective expertise of the board will be used to build a vibrant research program that utilizes student-mentor relationships to develop research questions, gather data, apply for grants, and publish findings. The board will provide research-focused students with invaluable learning opportunities.

Board Membership (alphabetical)

Name	Email	Current Position
Ara Alexandrian	<a href="mailto:aalexandrian@uabmc.edu">aalexandrian@uabmc.edu</a>	Assistant Professor, Department of Radiation Oncology, UAB Medicine, O'Neal Comprehensive Cancer Center
Jon Baldwin	<a href="mailto:jbaldwin@uabmc.edu">jbaldwin@uabmc.edu</a>	Associate Professor of Radiology, UAB School of Medicine Program Director, Nuclear Medicine Residency Medical Director, NMMIS
Luvenia Bender	<a href="mailto:wenn@uab.edu">wenn@uab.edu</a>	Associate Professor of Radiology, UAB School of Medicine
Amy Brady	<a href="mailto:amybrady@uab.edu">amybrady@uab.edu</a>	Program Director, NMMIS
Carlos Cardenas	<a href="mailto:cecardenas@uabmc.edu">cecardenas@uabmc.edu</a>	Assistant Professor, Department of Radiation Oncology, UAB Medicine, O'Neal Comprehensive Cancer Center
Remo George	<a href="mailto:remogeorge@uab.edu">remogeorge@uab.edu</a>	Assistant Professor, NMMIS
Krystle Glasgow	<a href="mailto:krystlew@uab.edu">krystlew@uab.edu</a>	Clinical Coordinator, NMMIS
Donald Gordon	<a href="mailto:dgordonjkk@yahoo.com">dgordonjkk@yahoo.com</a>	Retired nuclear cardiologist, UAB
Suzanne Lapi	<a href="mailto:lapi@uab.edu">lapi@uab.edu</a>	Professor of Radiology and Chemistry UAB Cyclotron Facility Director

Muhammad Maqbool	<a href="mailto:mmaqbool@uab.edu">mmaqbool@uab.edu</a>	Associate Professor, MHP
Jonathan McConathy	<a href="mailto:jmccconathy@uabmc.edu">jmccconathy@uabmc.edu</a>	Associate Professor of Radiology Director, UAB School of Medicine Division of Molecular Imaging and Therapeutics
Keith McGregor	<a href="mailto:kmmcgreg@uab.edu">kmmcgreg@uab.edu</a>	Director of Research and Associate Professor, Clinical and Diagnostic Sciences
Sergey Mirov	<a href="mailto:mirov@uab.edu">mirov@uab.edu</a>	Professor of Physics Director, UAB Center for Optical Sensors and Spectroscopies
Glenn Sturchio	<a href="mailto:sturchio.glenn@mayo.edu">sturchio.glenn@mayo.edu</a>	Director of Health Physics, Mayo Clinic
Sharon White	<a href="mailto:shlwhite@uabmc.edu">shlwhite@uabmc.edu</a>	Program Director, Imaging Medical Physics Residency Program Associate Professor, Division of Physics and Engineering Physicist, Division of Molecular Imaging and Therapeutics (Nuclear Medicine) Chair of the UAB Rad Safety Committee
Charles Wilson	<a href="mailto:cawilso2@uab.edu">cawilso2@uab.edu</a>	Deputy Radiation Safety Officer at University of Missouri-Columbia Credentialed Course Instructor, MHP
Michael Yester	<a href="mailto:myester@uabmc.edu">myester@uabmc.edu</a>	Assistant Program Director, Imaging Medical Physics Residency Program Professor, Division of Physics and Engineering Physicist, Division of Molecular Imaging and Therapeutics (Nuclear Medicine)
Daniel Yoder	<a href="mailto:dyoder@uabmc.edu">dyoder@uabmc.edu</a>	Imaging Manager, UAB Hospital

## NMMIS CLINICAL SITES

Clinical education is a major component of the Nuclear Medicine & Molecular Sciences professional phase program. The student will obtain hands-on experience in the clinical setting which allows them to get real world practical experience as part of their overall education. This enables the student to become an entry level technologist by the time of graduation through completing documented clinical competencies and experiences.

### **The following Alabama facilities serve as clinical practice sites:**

Baptist Medical Center Princeton, Birmingham  
Brookwood Diagnostic Cardiology Center, Birmingham  
Brookwood Medical Center, Homewood  
Cardinal Health Nuclear Pharmacy, Birmingham  
Cardiology P.C., Birmingham  
Children's Hospital, Birmingham  
Cullman Medical Center, Cullman  
Decatur Morgan HH Hospital, Decatur  
Dept. of Veterans Affairs Medical Center, Birmingham  
Grandview Medical Center, Birmingham  
Heart South Cardiovascular, PC, Alabaster  
Shelby Baptist Medical Center, Alabaster  
St. Vincent's East, Birmingham  
St. Vincent's PET, LLC, Birmingham  
The Kirklin Clinic – Cardiology, Birmingham  
UAB Advanced Imaging Center, Birmingham  
UAB Hospital, Birmingham  
UAB Medical West, Bessemer  
Walker Baptist Medical Center, Jasper  
Walker Medical Diagnostics, LLC, Jasper

*\*Please know that this list of clinical practice sites may change*



## **PROFESSIONAL PHASE CURRICULUM**

### **Prerequisite Courses (40 hours)**

- Pre-calculus Trigonometry
- Introductory Chemistry I & II
- Pathophysiology
- Human Anatomy and Physiology
- Statistics
- College Physics I & II
- Medical Terminology
- Health Care Systems

### **Professional Phase (64 hours)**

**2024-2025 UAB NUCLEAR MEDICINE & MOLECULAR IMAGING SCIENCES PROGRAM**

<b>1<sup>st</sup> Semester</b>		
<b>Imaging Specialist Track Curriculum</b>	<b>RSO Track Curriculum</b>	<b>Research Track Curriculum</b>
NMT 604 Intro to NM, Management, Pt. Care & Lab <b>Core-(2 SH)</b>	NMT 604 Intro to NM, Management, Pt. Care & Lab <b>Core-(2 SH)</b>	NMT 604 Intro to NM, Management, Pt. Care & Lab <b>Core-(2 SH)</b>
NMT 620 NM Radiation Physics, Instrumentation & Lab <b>Core-(4 SH)</b>	NMT 620 NM Radiation Physics, Instrumentation & Lab <b>Core-(4 SH)</b>	NMT 620 NM Radiation Physics, Instrumentation & Lab <b>Core-(4 SH)</b>
NMT 631 NM Anatomy & Physiology Procedures I <b>Core-(4 SH)</b>	NMT 631 NM Anatomy & Physiology Procedures I <b>Core-(4 SH)</b>	NMT 631 NM Anatomy & Physiology Procedures I <b>Core-(4 SH)</b>
NMT 691 NMT Clinical Practice <b>Core-(5 SH)</b>	NMT 691 NMT Clinical Practice <b>Core-(5 SH)</b>	NMT 691 NMT Clinical Practice <b>Core-(5 SH)</b>
CDS 505 Professional Skills Development <b>Core-(1 SH)</b>	CDS 505 Professional Skills Development <b>Core-(1 SH)</b>	CDS 505 Professional Skills Development <b>Core-(1 SH)</b>
NMT 653 Research Methodology & Publication Analysis <b>Core-(2 SH)</b>	NMT 653 Research Methodology & Publication Analysis <b>Core-(2 SH)</b>	NMT 653 Research Methodology & Publication Analysis <b>Core-(2 SH)</b>
<b>Semester Total = 18 SH</b>	<b>Semester Total = 18 SH</b>	<b>Semester Total = 18 SH</b>
<b>2<sup>nd</sup> Semester</b>		
<b>Imaging Specialist Track Curriculum</b>	<b>RSO Track Curriculum</b>	<b>Research Track Curriculum</b>
NMT 632 Nuclear Medicine Anatomy & Physiology Procedures II <b>Core-(2 SH)</b>	NMT 632 Nuclear Medicine Anatomy & Physiology Procedures II <b>Core-(2 SH)</b>	NMT 632 Nuclear Medicine Anatomy & Physiology Procedures II <b>Core-(2 SH)</b>
NMT 641 Regulations, Rad. Protection/ Biology & Lab <b>Core-(4 SH)</b>	NMT 641 Regulations, Rad. Protection/ Biology & Lab <b>Core-(4 SH)</b>	NMT 641 Regulations, Rad. Protection/ Biology & Lab <b>Core-(4 SH)</b>
NMT 605 Cross-Sectional Anatomy <b>Core-(2 SH)</b>	NMT 605 Cross-Sectional Anatomy <b>Core-(2 SH)</b>	NMT 605 Cross-Sectional Anatomy <b>Core-(2 SH)</b>
NMT 691 NMT Clinical Practice <b>Core-(6 SH)</b>	NMT 691 NMT Clinical Practice <b>Core-(6 SH)</b>	NMT 691 NMT Clinical Practice <b>Core-(6 SH)</b>
NMT 624 MRI Physics & Instrumentation <b>(2 SH)</b>		
<b>Semester Hour Total = 16 SH</b>	<b>Semester Hour Total = 14 SH</b>	<b>Semester Hour Total = 14 SH</b>
<b>3<sup>rd</sup> Semester</b>		
<b>Imaging Specialist Track Curriculum</b>	<b>RSO Track Curriculum</b>	<b>Research Track Curriculum</b>
NMT 660 Radiopharmacy & Radiopharmacology & Lab <b>Core-(4 SH)</b>	NMT 660 Radiopharmacy & Radiopharmacology & Lab <b>Core-(4 SH)</b>	NMT 660 Radiopharmacy & Radiopharmacology & Lab <b>Core-(4 SH)</b>
NMT 625 CT Physics & Instrumentation <b>Core-(2 SH)</b>	NMT 625 CT Physics & Instrumentation <b>Core-(2 SH)</b>	NMT 625 CT Physics & Instrumentation <b>Core-(2 SH)</b>
NMT 692 NMT & CT Clinical Practice <b>(7 SH)</b>	NMT 651 Advanced Radiation Biology <b>(3 SH)</b>	NMT 651 Advanced Radiation Biology <b>(3 SH)</b>
NMT 634 MRI Scanning & Sequence <b>(2SH)</b>	NMT 693 RSO Supervised Practice <b>(6 SH)</b>	NMT 697 Journal Club <b>(1 SH)</b>
NMT 698 Non-Thesis Research <b>(2 SH)</b>	NMT 698 Non-Thesis Research <b>(2 SH)</b>	NMT 698 Non-Thesis Research <b>(6 SH)</b>
<b>Semester Total = 17 SH</b>	<b>Semester Total = 17 SH</b>	<b>Semester Total = 16 SH</b>
<b>4<sup>th</sup> Semester</b>		
<b>Imaging Specialist Track Curriculum</b>	<b>RSO Track Curriculum</b>	<b>Research Track Curriculum</b>
NMT 696 Seminar & Registry Review <b>Core-(2 SH)</b>	NMT 696 Seminar & Registry Review <b>Core-(2 SH)</b>	NMT 696 Seminar & Registry Review <b>Core-(2 SH)</b>
NMT 694 CT Clinical Practice <b>(7 SH)</b>	NMT 693 RSO Supervised Practice <b>(8 SH)</b>	BST 603 Biostatistics or Elective <b>(3 SH)</b>
NMT 698 Non-Thesis Research <b>(2 SH)</b>	NMT 698 Non-Thesis Research <b>(2 SH)</b>	NMT 699 Thesis Research <b>(10 SH)</b>
NMT 633 CT Procedures <b>(2 SH)</b>	NMT 611 Physics of Diagnostic Imaging <b>(3 SH)</b>	NMT 697 Journal Club <b>(1 SH)</b>
<b>Semester Total = 13 SH</b>	<b>Semester Total = 15 SH</b>	<b>Semester Total = 16 SH</b>
<b>Total Hours for professional phase program = 64 SH</b>	<b>Total Hours for professional phase program = 64 SH</b>	<b>Total Hours for professional phase program = 64 SH</b>



## STUDENT RESPONSIBILITIES

- To always present yourself in a professional manner while in our program. You represent not only our program but our university.
- Maintain academic integrity by refraining from cheating. Incidents of cheating among others should be reported if and when it is witnessed.
- Check email on a daily basis.
- Turn off all cell phones and/or beepers prior to beginning class.
- Report to all class meetings on time.
- Bring all course materials to class.
- Assist in maintaining a constructive classroom environment by refraining from inappropriate disruptions or outbursts. Respectful behavior toward instructors, classmates, and guests is expected.
- It is a requirement that you join the Society of Nuclear Medicine & Molecular Imaging as a student member.
- It is recommended that you join the Alabama Society of Nuclear Medicine as a student member.
- Present a case study and your research at the Alabama Society of Nuclear Medicine Fall and/or Spring meeting.
- Submit an abstract and present your poster to the SHP Research Day.
- Present your research during the NMMIS and Health Physics Research Day in the Fall semester of your fourth semester.
- Have access to a computer with MS Office software and a webcam for participation in on-line work and exams (software available at UAB bookstore at reduced cost to students.)
- Complete at least 4 hours of community service.
- Refer to the Student Policies and Procedures Handbook when in need of program, clinical and or didactic policy information. Failure to meet student responsibilities may lead to counseling, reprimand and/or probation.

**Due to the fact that graphing calculators are not allowed to be used on the Nuclear Medicine & Molecular Sciences Certification Board exam, they are not allowed for use in classes within the NMMIS program. A non-graphing scientific calculator can be used. The program has calculators that can be checked-out while in the program.**

## PROGRAM GRADING POLICIES

1. The following grading scale is utilized in all Nuclear Medicine & Molecular Sciences courses with the prefix NMT. It is to be pointed out that this is based on an 8 point scale rather than a 10 point scale. Also, board exams require a 75 or better to pass.

A = 92 – 100, B = 84 – 91, C = 75 – 83, F = < 75

2. A current student who receives a grade less than 75 in any required course while admitted to the Nuclear Medicine & Molecular Sciences program will be dismissed from the program unless there are mediating circumstances. These circumstances must be extreme in order to be considered.

In the case of extreme circumstances, the student will be suspended from the program rather than expelled, and must wait until the next time the course in which the failing grade was made is offered again. The student will then be allowed to take the course again. Under the recommendation of the program director, the student may be required to take remedial courses prior to repeating a Nuclear Medicine & Molecular Sciences course. If the student passes the course, then the student may petition the program director for re-entry into the program. If the class size warrants, the student MAY be allowed to re-enter the program at the discretion of the program director. Re-entry into the Nuclear Medicine & Molecular Sciences program is NOT guaranteed. If the student takes the course again and still fails to make a 75 or greater, the student will be expelled from the program. The student may reapply to the program, and must complete the full application process again and enter the program as a new student. Entry into the program is still not guaranteed, but will be on a competitive basis with the other applicants.

3. Cheating: If a student is caught and proven to be cheating, the student is in violation of the UAB Honor Code (found on the Home Page under Course Information) and will be subject to the UAB policies on Academic Misconduct. At the least, the student will receive a zero for the exam or assigned work and will be put on Academic Probation (see Program Policies and Procedures on Academic Misconduct/Probation). If placed on Academic Probation, a second infraction OF ANY KIND will result in dismissal from the program.
4. Plagiarism: All papers and assignments must be the original work of that student, or have the work of another in quotation marks with proper reference notations immediately following the direct quote. If a student is proven to have plagiarized another individual's work, claiming that work as his or her own, the student is in violation of the UAB Honor Code (found on the Home

Page under Course Information) and will be subject to the UAB policies on Academic Misconduct.

## TEXTBOOK LIST

2024-2025

The following books must be purchased for use during participation in the program. This list is subject to change.

Textbook List	
NMT 604	<p><i>Intro to Radiography &amp; Patient Care</i>, 7th Edition Adler &amp; Carlton Saunders ISBN-13: 978-0323566711 ISBN-10: 0323566715</p>
NMT 620	<p>Hendee's <i>Physics of Medical Imaging</i>, Samei and Peck. Wiley-Blackwell, 5th Edition, 2019. ISBN-13: 978- 0470552209</p> <p><i>Nuclear Medicine Instrumentation</i>, Prekeges, Jones and Bartlett Learning, 2nd Edition, 2012. ISBN-13: 978-1449652883</p> <p><i>Nuclear Medicine &amp; PET/CT - Technology &amp; Techniques</i>, Christian &amp; Waterstram-Rich, Mosby, 8th Edition, 2016. ISBN-13: 978-0323356220</p>
NMT 631	<p><i>Nuclear Medicine and PET/CT Technology and Techniques</i>, 8th Edition Waterstaram-Rich and Gilmore Mosby-Elsevier ISBN: 9780323356220</p>

	<p><i>Nuclear Medicine Technology: Procedures and Quick Reference</i>  Pete Shackett, 3<sup>rd</sup> edition  Lippincott, Williams &amp; Wilkins  ISBN: 9781975119836</p>
NMT 691	<b>No Required Text</b>
CDS 505	<b>No Required Text</b>
NMT 653	<p>Research Methodology; a step-by-step guide for beginners, 4th Edition, by Ranjit Kuma. SAGE Press Los Angeles.  ISBN-13: 978-1446269978  ISBN-10: 9781446269978</p> <p>Research Design; Qualitative, quantitative and mixed methods approach, 5th Edition, by John W. Creswell. SAGE Press Los Angeles.  ISBN: 1506386709  ISBN-13: 9781506386706</p>
NMT 632	<p><i>Nuclear Medicine and PET/CT Technology and Techniques</i>, 8th Edition  Waterstaram-Rich and Gilmore  Mosby-Elsevier  9780323356220</p> <p><i>Nuclear Medicine &amp; Molecular Sciences Procedures and Quick Reference</i>  Pete Shackett, 3<sup>rd</sup> edition  Lippincott, Williams &amp; Wilkins  ISBN-13: 978-1975119836  ISBN-10: 1975119835</p> <p><i>Nuclear Cardiology Technology</i>, 2nd Edition  Johnson, Et al  Society of Nuclear Medicine &amp; Molecular Imaging (<u>Provided by program- on loan</u>)</p>
NMT 641	<p><i>Essentials of Radiation Biology and Protection</i>  Forshier, S., Delmar  2<sup>nd</sup> Edition  Thompson Learning  ISBN: 9781428312173</p> <p><i>Radiation Protection in the Health Sciences (with problem solutions manual)</i>  Noz and Maguire  2<sup>nd</sup> Edition</p>

	<p>World Scientific ISBN: 9789812705976</p> <p><i>Guide for Diagnostic Nuclear Medicine and Radiopharmaceutical Therapy</i> Jeffery A. Siegel Society of Nuclear Medicine ISBN: 9780972647823</p>
NMT 605	<p>NMT 605 --Sectional Anatomy For Imaging Professionals by Lorrie Kelley &amp; Connie Petersen 4th edition Textbook-ISBN: 978-0-323-41487-6 Workbook-ISBN: 978-0-323-56961-3</p>
NMT 691	<b>No Required Text</b>
NMT 624	<p>MRI in Practice Westbrook M Blackwell Science 4<sup>th</sup> and 5th Edition, 2018 ISBN-13: 978-1119391968</p>
NMT 660	<p>Chemistry and Analysis of Radionuclides Lehto and Hou 1st Edition, 2010 ISBN: 9783527326587</p>
NMT 625	<p>Computed Tomography: Physical Principles, Clinical Applications, and Quality Control. Euclid Seeram. 5th Edition, 2023. ISBN-13: 978-0323790635</p>
NMT 692	<b>No Required Text</b>
NMT 633	<p><i>Computed Tomography Physical Principles, Clinical Applications, &amp; Quality Control, 4th edition</i> Textbook-ISBN: 978-0-323-31288-2</p>
NMT 651	<i>Radiobiology for the Radiologist, 8th Ed., Hall; ISBN: 9781496335418</i>
NMT 696	<i>Review of Nuclear Medicine &amp; Molecular Sciences, 5th Edition</i>

NMT 634	<p>MRI in Practice</p> <p>Westbrook M</p> <p>Blackwell Science</p> <p>5th Edition, 2018 ISBN-13: 978-1119391968</p>
NMT 694	<b>No Required Text</b>
NMT 698	<b>No Required Text</b>
NMT 611	<p><i>The Essential Physics of Medical Imaging</i></p> <p>Bushberg</p> <p>3<sup>rd</sup> Edition, 2011</p> <p>ISBN: 9780781780575</p> <p>MHP 620</p> <p>The Physics of Diagnostic Imaging.</p> <p>Dowsett, D. 2nd Edition, 2006.</p> <p>ISBN-13: 978-0340808917</p>
BST 603	<b>TBD</b>

## **UAB AND PROGRAM ASSESSMENTS AND EVALUATIONS**

The student is requested to do several types of assessments throughout their participation in the program. A list of those assessments and a brief explanation are below.

By completing the evaluations of the program, the program can identify areas in need of improvement or enhancement in order to better meet the educational needs of the student.

### **1. Course / Instructor Evaluation**

- This is done by the student electronically at the completion of each course at the end of each semester.
- While the student is not required to do the evaluation, the information is vital for the instructor to use to improve the course.
- The evaluations are anonymous.

### **2. Student End-of-Term Evaluation**

- This is completed at the end of each semester in which the student is enrolled in clinical practice.
- The student is requested to submit a self-assessment of how they perceived their performance was in the clinic for that semester.
- If necessary, a meeting with the student and the program director will be arranged to work out any identified problem areas.

### **3. Exit Interview**

- This is done at the end of the last semester of the program.
- The student is requested to do an evaluation of the program's strengths and weaknesses as perceived by the student.
- The evaluation is anonymous.

### **4. Pre/Post Program Assessment**

- The assessments are delivered during the 1<sup>st</sup> semester and final semester.
- These assessments are designed to identify strengths and weaknesses in the program's didactic curriculum to make continued improvements.
- The student must successfully complete the post-assessment for the program director to consider the student for taking the national board examination.



**Nuclear Medicine & Molecular Sciences Certification Board Annual Report – UAB NMMIS Program Results**

First Time Taking the Exam Upon Completion of UAB NMMIS Program Results:

<b>First-time Pass Rate for Students Taking a Nuclear Medicine Board Exam</b>				
<b>Year</b>	<b>UAB NMMIS Program</b>	<b># of UAB students first-time passed/# of UAB students taking the board exam</b>	<b>Average for Equivalent Program Graduates Taking the NMTCB</b>	<b>Overall Average for All Examinees Taking the NMTCB</b>
<b>2022</b>	100%	3/3	-	-
<b>2021</b>	92%	11/12	83.65%	75.67%
<b>2020</b>	100%	3/3	84.4%	77.54%
<b>2019</b>	50%	7/14	85.19%	79.02%
<b>2018</b>	100%	5/5	87.72%	81.91%
<b>2017</b>	-	-	85.37%	80.27%
<b>2016</b>	82.4%	14/17	88.9%	83.15%
<b>2015</b>	92.3%	12/13	90.99%	86.76%
<b>2014</b>	88.2%	15/17	89.59%	87.62%
<b>2013</b>	100%	17/17	90.78%	88.20%
<b>2012</b>	88.2%	15/17	91.3%	88.2%
<b>2011</b>	94.4%	17/18	94.9%	91.4%
*These results are combined from both the NMTCB and ARRT Board Certification exam results.				

## ACCREDITATION

Accreditation: The NMMIS program is accredited by:

The Joint Review Committee on Educational Programs in Nuclear Medicine Technology (JRCNMT).

### JRCNMT

2000 W. Danforth Road

Suite 130, #203

Edmond, OK 73003

Phone: 405.285.0546

Fax: 405.285.0579

[jrcnmt@coxinet.net](mailto:jrcnmt@coxinet.net)

[www.jrcnmt.org](http://www.jrcnmt.org)

“The Master of Science in Nuclear Medicine & Molecular Sciences degree program is designed to lead to a professional certification. *There are two national professional board exams, one through the Nuclear Medicine Technology Certification Board (NMTCB) and the other with The American Registry of Radiologic Technologists (ARRT), resulting in a credential of CNMT or RT(N) respectively. In addition, students may elect to pursue elective coursework that can lead to secondary-post primary certification in Computed Tomography (CT) and/or Magnetic Resonance Imaging (MRI). CT certification is either through the NMTCB which results in a credential of NMTCB (CT) or through the ARRT with a credential of RT(CT). MRI certification is through the ARRT resulting in a credential of RT(MR). Specific licensure requirements for each modality still vary from state to state. UAB is working to develop an online, publicly-accessible database to assist in providing this state-by-state information. In the meantime, if you are interested in learning about potential professional licensure requirements in your state for a specific degree program, please visit the [UAB Professional Licensure and Certification General Disclosures](#) website or send an email to [AskCDS@uab.edu](mailto:AskCDS@uab.edu).”*

**Credentials Conferred:** Post Baccalaureate degree and a certificate of completion are awarded by the University of Alabama at Birmingham

**Board Certification:** Graduates of the program are eligible to apply for the certification examination offered by both the Nuclear Medicine Technology Certification Board (NMTCB) or the American Registry of Radiological Technologists (ARRT)

**Nuclear Medicine & Molecular Sciences Certification Board**

3558 Habersham at Northlake

Building I

Tucker, GA 30084

<http://www.nmtcb.org/root/default.php>

**Phone:** (404) 315-1739

**Toll Free:** (800) 659-3953

**Fax:** (404) 315-6502

**E-mail:** [board@nmtcb.org](mailto:board@nmtcb.org)

**ARRT**

1255 Northland Drive

St. Paul, MN 55120

<https://www.arrrt.org/>

**Phone:** (651) 687-0048

**Fax:** (651) 681-3299

**STUDENT SEIZURE PROTOCOL**

1. If a student has a seizure and comes out of the seizure physically unharmed and appears to be fine after the event:
  - Do not call 911.
  - Do not write up an incident report.
  - Make sure the student is ok.
  
2. If a student has a seizure and is physically harmed but seems fine otherwise (i.e. a fall occurs, the student bumps their head etc.):
  - Write up the incident as a “not a medical emergency” incident (see item 5 on the attached incident reporting policy).
  - Notify the program director immediately: (205) 934-3427 or (205) 975-4237
  - Transport the student to student health (1714 Ninth Avenue South) with a medical authorization form. This may be done by faculty or staff.
  
3. If the student has a seizure and is unresponsive or alert but not coherent:
  - Call 911.
  - Write up the incident as a “major medical injury” (See item one on the attached incident reporting policy).
  - Accompany the student to the ER to present the completed medical authorization form. This may be done by faculty or staff.
  - Notify the program director immediately.

If this were to occur a medical authorization form and incident report form would need to be completed.

## CLOSING NOTIFICATIONS

Your safety should always take precedence to official closings. To find out if class cancellation occurs due to bad weather (snow and ice) on an assigned class day use the following official sources:

- UAB radio station WBHM 90.3
- The UAB Web site at [www.uab.edu](http://www.uab.edu)
- BlazerNet at [www.uab.edu/blazernet](http://www.uab.edu/blazernet)
- B-Alert System <https://www.uab.edu/emergency/communications-and-information-management/uab-b-alert>
- The UAB inclement Weather Hotline at (205) 934-2165

## NMT CODE OF ETHICS

Technologists qualified to perform nuclear medicine procedures are members of the health care profession and must strive as individuals and as a group to maintain the highest ethical standards by adhering to the Nuclear Medicine Technologist Code of Ethics approved on May 5, 2020 by the Society of Nuclear Medicine and Molecular Imaging Technologist Section (SNMMITS).

The principles of the Nuclear Medicine Technologist Code of Ethics as listed below are not laws, but standards of conduct to be used as ethical guidelines by nuclear medicine technologists.

**Principle 1:** The Nuclear Medicine Technologist will provide services with compassion and respect for the dignity of the individual and with the intent to provide the highest quality of patient care.

**Principle 2:** The Nuclear Medicine Technologist will provide care without discrimination regarding the nature of the illness or disease, gender, race, religion, sexual preference or socioeconomic status of the patient.

**Principle 3:** The Nuclear Medicine Technologist will maintain strict patient confidentiality in accordance with state and federal regulations.

**Principle 4:** The Nuclear Medicine Technologist will comply with the laws, regulations, and policies governing the practice of nuclear medicine.

**Principle 5:** The Nuclear Medicine Technologist will continually strive to improve his or her knowledge and technical skills.

**Principle 6:** The Nuclear Medicine Technologist will not engage in fraud, deception, or criminal activities.

**Principle 7:** The Nuclear Medicine Technologist will be an advocate for his or her profession.

## NMMIS PROGRAM DRUG TESTING POLICY

In addition to the SHP Drug Testing Policy, the NMMIS program reserves the right to test any NMMIS student, with cause, at any time while they are enrolled in the program under the direction of either the Program Director or Clinical Coordinator.

## ESSENTIAL REQUIREMENTS

The following skills are needed by applicants to the Nuclear Medicine & Molecular Sciences Program. Applicants and students should possess these abilities, or with the help of compensatory techniques and/or assistive devices, be able to demonstrate the ability to become proficient.

- Manual dexterity:      Use of extremities for patient care purposes
- |               |           |           |            |
|---------------|-----------|-----------|------------|
| wrists (both) | grasping  | pulling   | twisting   |
| hands (both)  | fingering | holding   | (rotation) |
| arms (both)   | pushing   | extending | cutting    |
- Sensation:              palpation              auscultation              percussion
- capable of hearing voices of normal range in the presence of background noise
- Visual Perception:      depth acuity (corrected to 20/40)
- ability to distinguish shades of gray/color
- Physical strength:      to support another person
- to position another person
- to transfer/ambulate with walker, cane, crutches, bed, wheelchair
- to stand for long periods of time
- to perform CPR; resuscitation
- to walk at a rapid pace for eight hours
- to lift 10-15 pounds
- Ability to operate and maintain equipment (e.g., nuclear medicine instrumentation, ventilator, electronic monitor, etc.)

Interpersonal skills:     able to function (consult, negotiate, share) as part of a team  
                                  able to use oral communication skills  
                                  able to respond to others' requests  
                                  willing to accept direction and supervision

Perform duties while under stress.

## **STUDENT AWARDS & SCHOLARSHIPS**

### **Scholarships**

Once the student is admitted to the Nuclear Medicine & Molecular Sciences Program, the student becomes eligible to apply for specific scholarships offered by the School of Health Professions as well as scholarships offered through the Society of Nuclear Medicine & Molecular Imaging (SNMMI), and the Alabama Society of Nuclear Medicine (ASNM).

#### ***Society of Nuclear Medicine & Molecular Imaging (SNMMI)***

The Society of Nuclear has various student and professional scholarships available. Applications can be found on the SNMMI website: <http://www.snmmi.org/>. To apply the student must be a member of the SNMMI . Student memberships are available through the SNMMI and it is highly recommended that each student apply.

#### ***Alabama Society of Nuclear Medicine (ASNM)***

The Alabama Society of Nuclear Medicine also has various student and professional scholarships available. Applications can be found on the ASNM website: [www.alabamanucmed.org](http://www.alabamanucmed.org). To apply the student must be a member of the ASNM.

#### ***Michael Thompson Scholarship Fund***

Professor Emeritus Michael Alford Thompson, Professor of Medical Physics for 27 years at the University of Alabama at Birmingham (UAB) School of Health Professions, suddenly and unexpectedly passed away on January 2, 2009, at the age of 59. He retired in 2007 from the faculty of the UAB Nuclear Medicine & Molecular Sciences Program after suffering from Parkinson's disease for 7 years. His 30-year career at UAB began in 1977 as a Radiation Safety Monitor in the Occupational Health Safety Office. He transferred to the School of Health

Professions in April of 1980 and began utilizing the teaching experience he obtained at Francis Marion College in Florence, South Carolina, where he taught Physics and Mathematics from 1974-to 1977. In May 1986, just six short years after joining the faculty, he was honored with the School of Health Professions highest faculty award, the Joseph F. Volker Outstanding Faculty Award. He received the President's Excellence in Teaching Award in May of 1993 and twice (1995 and 1997) was a finalist for the highest faculty award given by UAB, The Ellen Gregg Ingalls / UAB National Alumni Award.

These faculty awards are a testament to Michael Thompson's reputation as an outstanding educator. Numerous former students were led to the field of Health Physics through Professor Thompson's efforts. He continuously promoted the field and would personally hand out application forms to students he thought had any interest in health physics. As a long-time member, he would sign off on the applications and personally mail them to society. Many former students went on from the UAB NMT Program to pursue a Health Physics degree at Georgia Tech with recommendations provided by Professor Thompson.

In addition to being an outstanding educator for the School of Health Professions and promoter of the field of health physics, Professor Thompson created and marketed many educational materials through the years. His Principles of Radiation Protection Video Series has been sold internationally. His most recent undertaking has been educational PowerPoint CD packages which have included topics on nuclear instrumentation, radiologic physics, radioactive decay processes, and radiation protection. In 1994, he led the effort for the publication textbook for radiography entitled "Principles of Imaging Science and Protection" from the W.B. Saunders Company.

Professor Emeritus Michael Thompson was beloved by the many students he taught over his 30-year career and will be remembered for being a kind, gentle, and generous person who gave all he could to his students to help them in the learning process. Being a talented educator and a dedicated professor devoted to life-long learning, he will be greatly missed by all who were fortunate enough to be his students.

In an effort to honor the contributions Professor Thompson made during his career at UAB, the NMMIS Program has establish a student scholarship in his name as a lasting remembrance of Professor Emeritus Michael Thompson.

***M. May Williams memorial Scholarship***



M. May Williams was the first program director of the UAB Radiography program. Upon her passing, a memorial scholarship was named in her honor. This scholarship is used for the CT and MRI concentrations associated with the MSNMMIS program. Eligible students will be notified of the application process in the clinical term associated with the concentrations.