

**NUCLEAR MEDICINE**  
**Certificate in Nuclear Medicine Technology (NMT)**

**Description**

A full time, one year program consisting of 3 semesters, designed to train nuclear medicine technologists in the safe handling and application of radioactive materials for diagnostic and therapeutic procedures in the medical field. The applied skills of nuclear medicine technologists compliment nuclear medicine physicians by providing clinical information pertinent to patient diagnosis and treatment.

Beginning Semester:       Fall  
 Campus:                     Airport

**Admission Requirements**

This is an advanced certificate program. Admittance is limited to only those who meet the specific admissions criteria below. Interview selection by the NMT Interview Committee is mandatory for acceptance. Admittance is limited and is based on current market demand for nuclear medicine technologists.

In addition to the outlined categories of eligible applicants, ALL applicants MUST have recent college credits (3 years or less) in algebra, statistics, chemistry, human anatomy and physiology, medical terminology. Applicants with required course work older than 3 years may still be considered based upon life experience and/or validation courses. Other non-science courses may not exceed ten years. Specific admission criteria for entry into the Nuclear Medicine Technology Program include:

Associate of Science with registration/certification or eligibility in radiologic technology, medical technology or nursing,

OR

A Bachelor's of Science Degree in radiologic technology, medical technology, nursing, physics, biological sciences or chemistry.

**Graduation Requirements**

A minimum of 39 semester hours is required for graduation. **All students in the program must submit an application for graduation.** A minimum grade of 2.75 must be maintained in all Nuclear Medicine courses.

**CURRICULUM REQUIREMENTS**

<u>General Education Courses</u>	<u>Prerequisite</u>	<u>Co-Requisite</u>
BIO 210	RDG 100 (ENG 101 & BIO 100)	
BIO 211	BIO 210	
ENG 101	ENG 100 & RDG 100	
ENG 102	ENG 101	
CPT 101	RDG 100	
CHM 101	MAT 101 & RDG 100	
MAT 102	MAT 101 & ENG 100	
AHS 102	RDG 100 & ENG 100	
PSY 201	RDG 100	ENG 100

<u>Program course requirements</u>	<u>Prerequisite</u>
NMT 101	Admission to program
NMT 102	Admission to program
NMT 103	Admission to program
NMT 150	Admission to program
NMT 104	NMT 102
NMT 105	NMT 101 and NMT 103
NMT 107	NMT 103
NMT 151	NMT 150
NMT 106	NMT 104
NMT 109	NMT 104
NMT 152	NMT 151

**Recommended Preparatory Courses and/or Alternates**

- AHS 127
- AHS 128
- AHS 141
- AHS 145



Special consideration may be given to out of state students. The observations are scheduled by the applicant by calling Fran Smith at 803-822-3491. After the second observation, you are to call Fran Smith at 803-822-3491 to let her know you have finished your observations and you want to continue. If that is the case, she will put your name on the list to set up your interview appointment. A letter will be mailed to you with a confirmation of your appointment for the interview. It is the applicant's responsibility to ensure that their mailing address is current. If you are uncertain as to the status in the acceptance process, please contact the Program.

### **Interview Process**

All applicants must be interviewed by the NMT interview committee. This is the final phase for acceptance. Interviews will not be scheduled until all of the prerequisites are met. **Interviews are scheduled on a first apply, first qualified date status.** The interview committee consists of the program director, program coordinator, members of the NMT Advisory Committee and a student representative. The interview is numerically scored by an objective question/answer process. **The applicant MUST receive a minimum passing score in order to gain acceptance into the NMT Program.**

### **Entry Requirements**

As outlined by the college catalog. Must have equivalent of at least 60 semester college credits in general college prep track which must include Human Anatomy and Physiology, Algebra, Chemistry, Computer Applications, English Communication, and Medical Terminology. **Students who are accepted with no prior health clinical skills or experience will be required to complete NMT 100** (Preparation for Clinic) during the summer semester prior to beginning professional courses in the fall.

### **Program Length**

One year beginning fall semester continuing through spring semester and summer semester. It is a full time program with primarily day time hours. However, there is a possibility of an evening class.

### **NMT Curriculum**

The Nuclear Medicine core courses are through the college. Students register each semester as full time students. All courses are taught at the Radiologic Sciences classroom 240, Airport Campus, Health Science Building, next door to the Student Center.

### **Clinical Education**

Through 15 clinical affiliates, clinical education is scheduled to enhance progressive learning for each student. Clinical education usually begins the week of school and is scheduled throughout the program. Clinical sites are available across the state of South Carolina.

### **Call Coverage**

Students are responsible for assisting with three call procedures during non scheduled clinical time. This takes place summer semester. Time spent on call procedures is documented and added to the student's remaining vacation/sick leave.

### **Radiopharmacy Rotations**

At least two weeks is spent at commercial radiopharmacies (Low Country Diagnostics, Pee Dee Isotopes, Shertech Pharmacy, MUSC Pharmacy, and Cardinal Health) for exposure to generator eluting, kit prep, QC, dose calculations, etc., and one week at Baptist Medical Center's Nuclear Medicine Radiopharmacy.

### **Dress Code**

Specific dress code while in clinical setting as outlined in the NMT Policy and Procedure manual to include all white (uniform type) pants, shirt, dress, shoes, etc. Males wear ties and all students must wear a white lab coat with MTC NMT patch sewn on left sleeve. The school patches and name tag is purchased from Airport Campus Bookstore. Radiation monitoring devices must be worn at all times in the clinical affiliates.

### **Physical Requirements**

Must have manual dexterity, visual acuity, communication skills, etc., as outlined by the Health Sciences and Nursing abilities list for Nuclear Medicine. Students must complete health forms from MTC Health Science prior to clinical rotations. Emotional and physical ability to carry out normal activities of a Nuclear Medicine Technologist as determined by a physical examination and completion of a personal health history is mandatory. (Refer to the Health Science and Nursing Technical Standards.)

### **Job Opportunities**

We do not guarantee students will get a job. Job opportunities for NM Technologists are scattered throughout the country at present. The Program job placement rate has been 100% through 2006.

### **Professional Affiliations**

Students enrolled in the program will become members of the SCSNM and participate at the state meeting by presenting either a scientific essay or exhibit for competition. Students also have the opportunity to join the SNM.

**NMTCB/ARRT (N) Board Exams** Upon graduating from our accredited program, the student is registry eligible. All graduates will take the NMTCB certifying exam as soon as can be scheduled following graduation. The exam costs \$145.00 payable at least 2 months prior to test date which will be post graduation. The ARRT (N) exam is given post graduation and costs \$140 payable in July. Upon completion of the program, students will be eligible to take the NMTCB and ARRT (N) certifying exams.

### **Vacation/Sick Time**

The success of the program is based upon clinical competency. The vacation schedule of the NMT program follows the MTC holiday schedule. Classes are not taught during the scheduled college breaks but clinical rotations are continued unless time off has been requested. Specific guidelines for requesting time off are outlined in the NMT policy and Procedure manual.



Directions to Richland Memorial Hospital

Located at 5 Medical Park (Harden Street Extension), Columbia SC 29203. Report to Ryan Wilson or Gordan Branham. To enter the Nuclear Medicine Department, enter the front of the hospital and go to the right of the elevators to the hallway. Turn right and continue to the end of the hall. Nuclear Medicine is on the left.

Directions to Providence Hospital

The address to Providence is 2435 Forest Drive, Columbia SC.

The Nuclear Medicine department is located at the outpatient entrance (CT Scanner Entrance). You may park in the visitors' garage. Report to Pam Parks. The phone number is 256-5365.

Directions to Lexington Medical Center

Lexington Medical Center is located off of I-26. Turn right just after Hardees. Go to the back of the hospital and park in the section labeled G (on the right). Enter the North Entrance of the hospital and go to the information desk. Ask for directions to Radiology. Once at the Radiology Information desk, ask for directions to the Nuclear Medicine Department. Go to the Nuclear Medicine Department and let them know you are there for your observation. Report to Nakia Robinson or Frank Williams. The phone number is 803-791-2457.

Directions to Baptist Medical Center

Baptist Medical Center is located at the corner of Taylor and Sumter Streets.

Park in the Sumter Street parking garage. Go to the third floor and cross Sumter Street via the cross walk. When you get to the end of the cross walk take a left and follow the signs to elevator D. Take elevator D to the basement and walk to your right. Follow the signs to the Nuclear Medicine Department. Enter the department and ask for Tracy Harling. If you see that everyone is busy, have a seat and wait patiently until someone can help you. If you get lost, call the Nuclear Medicine department at 296-5906.

**The Interview Process for Nuclear Medicine**

1. Please report promptly at your interview time and have a seat in our reception room on the second floor Room 201. Airport Campus Health Science Building. (Next door to the Student Center.)
2. We will be expecting you and may be interviewing another applicant. We will be with you shortly.
3. The interview will last approximately 30 minutes. There will be three to five people on the Nuclear Medicine Technology Interview Committee. You will be asked approximately 12-16 questions involving information about yourself and your interest in Nuclear Medicine, your observations, policies of the program, and overall knowledge of the program's requirements.
4. Applicants will be reviewed for communication skills and the ability to deal with stressful situations, their awareness of the duties of the Nuclear Medicine Technologist, and overall characteristics that would be most beneficial for the applicant to possess. We are looking for the above average applicant.
5. The applicants are notified, by mail, within 30 days of their interview through the College Admissions office. A health form will need to be completed prior to entering the program.
6. When you receive word of your acceptance, please call our office at 803-822-3491 to inform us of your decision to enter the program.
7. All applicants cannot be accepted due to the limited number of spaces; however, we appreciate your interest in our program and hope you will pursue your education at the College. If you need additional help, please call Career Services for assistance.

Thank you for your interest in the Nuclear Medicine Program at Midlands Technical College!





# NUCLEAR MEDICINE TECHNOLOGY

Mr. Ray Wiegner, Program Director – 822-3483  
Mrs. Fran Smith – 822-3491

Mrs. Mauren Kreiner, Clinical  
Coordinator 822-6754

## Do you have or have you completed.....

- |   |  |
|---|--|
| <input type="checkbox"/> GPA ( <b>not less</b> than 2.75) |  |
| <input type="checkbox"/> AOT                              | <input type="checkbox"/> Degree – B.S. or A.S. _____<br>(In Radiologic Technology, Medical Technology,<br>Nursing, Physics, Biological Sciences or<br>Chemistry) |
| <input type="checkbox"/> AHS 102                          |  |
| <input type="checkbox"/> ENG 101                          | <input type="checkbox"/> ENG 102   |
| <input type="checkbox"/> MAT 102                          | <input type="checkbox"/> PSY 201   |
| <input type="checkbox"/> CPT 101                          | <input type="checkbox"/> CHM 101 or 105 or 110   |
| <input type="checkbox"/> BIO 210                          | <input type="checkbox"/> BIO 211   |

1. When you have the above listed items in place, missing one or two of the classes only, then you should apply to the Nuclear Medicine Program.
2. Report to the Student Center, room 237 to view the DVD and read the policy and procedure manual for Nuclear Medicine. Make sure your major is listed as Nuclear Medicine.
3. Once you have been placed on the interview eligible list (it is about a 2 year wait once on the list) you will then be invited to a **REQUIRED** Information Session. It is imperative that you **keep us updated** on any changes i.e. phone numbers, addresses, name changes, etc.
4. After the **REQUIRED** Information Session, **we will schedule** you for two visits to area hospitals to observe the Nuclear Medicine Department. After your visits, call 822-3491 and let Mrs. Smith know if you still want to continue the admission process.
5. Interviews are set for a specific time once you have completed your observations. This may take a couple of months. **Make sure we have your current and correct address.** You will be notified by letter the date and time of your interview. Please respond immediately so we can confirm your appointment.
6. You are required to have a health form completed and a criminal background check/drug screening before entering the program.
7. A Nuclear Medicine student is under pressure to complete tests/exams/and competency clinical exams by a specific date or time. Therefore, an applicant must be able to deal with stressful situations in a professional manner.
8. A Nuclear Medicine student must be organized and have excellent time management skills.