NUCLEAR MEDICINE TECHNOLOGY

Certificate | Department of Engineering, Physics and Technology

This certificate program is designed for students with an AAS or BS degree in Radiologic Technology or another approved allied health degree.

Students will sit for didactic Nuclear Medicine courses online, while fulfilling the clinical requirements at an approved hospital affiliate in their geographic region. At this time, we are in communication with hospital affiliates for this certificate program in the Mohawk Valley and the Capital Region. Students interested in placements in the New York City area should consider the in-person AAS Nuclear Medicine Technology program.

Nuclear Medicine is a branch of medical imaging that uses radioactive isotopes for the diagnosis and treatment of certain diseases. The Nuclear Medicine Technologist program prepares students to administer the correct radioisotope doses, position patients under the gamma camera, and produce images that are then interpreted by a physician. Under supervision, students perform scans of the liver, bone, brain, kidneys, and the heart and cardiovascular system.

Upon the completion of the program at Bronx Community College, students are required to pass one of two national registry examinations to become identified as a licensed Nuclear Medicine Technologist and to practice as a Nuclear Medicine Technologist.

Admission Information

This certificate program will require the following to be considered for admission:

1. Earned an associate or bachelor's degree in radiologic technology or another allied health field providing sufficient preparation for success in this certificate program.
2. Earned a cumulative GPA of at least 2.7.
3. Documented relevant work or volunteer experience.
4. Completed the following program prerequisites:
    a. College Algebra
    b. Anatomy and Physiology I and II with labs
    c. Introductory/Fundamentals of Chemistry with lab
    d. Introductory/Fundamentals of Physics
    e. Written Communication/College Composition I

Admission is expected to be competitive and students meeting the minimum requirements are not guaranteed admission.

Academic Standards

Students must pass each didactic NMT class with a C+ or better and each clinical class with a B- or better. If students do not receive the required minimum grade, they are subject to program dismissal. For full academic policies on NMT program admission, retention, and graduation, please consult the BCC Codification of Academic Rules and Regulations available on the BCC website.

Learning Outcomes

Upon successful completion of the Nuclear Medicine Technology program requirements, students will be able to:

1. Demonstrate knowledge of Nuclear Medicine procedures and core concepts through assessment provided by Mock Certification Exam.
2. Demonstrate competence in a variety of routine Nuclear Medicine procedures.
3. Demonstrate proficiency of radiation safety, including radiation physics, radiation biology, instrumentation, quality control, and principles of ALARA.
4. Exhibit skills in patient care, including interpersonal communication, obtaining pertinent medical history, basic skills in EKG and phlebotomy.
5. Display a working knowledge of radiopharmaceuticals, including dosage administration, pediatric considerations, and decay principles.

NUCLEAR MEDICINE TECHNOLOGY CURRICULUM

29 Credits required for Certificate

Program Director: Professor Grace Tursi-Wenzler

- **NMT 78** EKG – Interpretation and Techniques (2 Credits)
- **NMT 79** Phlebotomy (2 Credits)
- **NMT 71** Nuclear Medicine Laboratory (1 Credit)
- **NMT 81** Orientation to Nuclear Medicine (3 Credits)
- **NMT 82** Radio-Pharmaceutical Chemistry (3 Credits)
- **NMT 83** Radiation Physics and Dosimetry (3 Credits)
- **NMT 84** Radiation Biology (2 Credits)
- **NMT 85** Nuclear Medicine Procedures (2 Credits)
- **NMT 86** Didactic Nuclear Medicine (2 Credit)
- **NMT 87** Clinical Nuclear Medicine I (3 Credits)
- **NMT 88** Senior NMT Seminar (3 Credits)
- **NMT 90** Clinical Nuclear Medicine II (3 Credits)