NUCLEAR MEDICINE TECHNOLOGY
(A.A.S. Degree)
Affiliated with Montefiore The University Hospital for the Albert Einstein College of Medicine | Program Director: Prof. Alfred Romito

This rewarding technology field involves collaboration and interactions with highly specialized people, the operation of sophisticated instruments, and excellent salaries. Nuclear Medicine is a relatively new branch of medicine that uses isotopes for the diagnosis and treatment of certain diseases.

The Nuclear Medicine Technologist assists the physician in the operation of the gamma camera, the positioning of patients under the gamma camera, and in the calculation of the isotope doses to the patients.

In recent years, improved diagnoses of many important diseases have been achieved by methods used in Nuclear Medicine. These include diseases involving the liver, gastrointestinal tract, and spleen; disorders of the bone vertebral column, and the heart and cardiovascular system; and localization of tumors using the new and exciting field of Position Emission Tomography. The number of nuclear medicine procedures in hospitals has been increasing over the past few years.

Admission
The minimum acceptable cumulative G.P.A. for entering specialization requirement courses of the Nuclear Medicine Technology Program is 2.7 (B-). For students transferring from another college, grades received from transferred courses will be used in the calculation of their effective index. Transferred courses may not include NMT designated courses.

Grade Requirements
The minimum acceptable grade in the Nuclear Medicine Technology didactic courses (NMT 71, 81-85, 88) each semester shall be the grade of C+. A grade of C may be accepted at the discretion of the program director in consultation with the program advisory board or the department chairperson, for example, if the overall GPA for that semester is a 2.3 (C+). Grades of C or lower may be repeated subject to the following conditions:

- Permission to repeat is subject to the availability of space and at the review of the program faculty.
- The course must be completed with a C+ or higher grade.
- Both grades received in the same course will be used to calculate the student’s cumulative Grade Point Average (GPA).
- The credit for a repeated course may be applied only once toward graduation.
- A student may repeat such a course only once.
- Repetition of courses passed may negatively impact on financial aid eligibility.

The minimum acceptable grade in the Clinical courses (NMT 86, 87) in the Nuclear Medicine Technology program each semester shall be a grade of B-. Grades of C+ or lower in the clinical courses must be repeated if the student wishes to receive a degree in Nuclear Medicine Technology. Grades of C+ or lower may be repeated subject to the following conditions:
Permission to repeat is subject to the availability of space and at the review of the program faculty.
Both grades received in the same course will be used to calculate the student’s cumulative Grade Point Average (GPA).
The credit for a repeated course may be applied only once toward graduation.
The student may repeat such a course only once.
Repetition of courses passed may negatively impact on financial aid eligibility.

Registry Exams and Further Education
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 Registered Nuclear Medicine Technologist and to practice as a Nuclear Medicine Technologist.

Further study in this field is possible in institutions offering a baccalaureate degree in Nuclear Medicine Technology. An articulation agreement with New York College of Technology allows students to pursue a Bachelor of Science degree in Radiology Science.

Accreditation
The Nuclear Medicine Technology program is accredited by the Joint Review Committee on Education in Nuclear Medicine Technology, recognized by the U.S. Department of Education as an independent accrediting agency.

Program Outcomes
Over the last 10 years, BCC has averaged a 90% program completion rate. National certification exam pass rates are shown in the table below:

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Examinees</th>
<th>Passed</th>
<th>%</th>
</tr>
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<tbody>
<tr>
<td>2009</td>
<td>7</td>
<td>7</td>
<td>100</td>
</tr>
<tr>
<td>2010</td>
<td>14</td>
<td>14</td>
<td>100</td>
</tr>
<tr>
<td>2011</td>
<td>10</td>
<td>9</td>
<td>90</td>
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Mission Statement
The mission of the Bronx Community College Nuclear Medicine Technology Program is to prepare its students for a life of service in nuclear medicine. The program prepares its graduates with the knowledge and skills needed for a successful career as a Nuclear Medicine Technologist. Graduates of the program receive an Associate of Applied Sciences degree (A.A.S.) and are eligible to take a national certification exam (ARRT or NMTCB), which is required to practice Nuclear Medicine in most states.

63 Credits required for A.A.S. Degree

Core Requirements
- ENG 10 Fundamentals of Composition and Rhetoric OR
- ENG 11 Composition and Rhetoric I .............................................................................. 3
- OCD 01 Orientation and Career Development .............................................................. 0
- MTH 30 Pre-Calculus Mathematics ................................................................. 4
- BIO 23 Human Anatomy & Physiology I ....................................................... 4
- CMS 11 Fundamentals of Interpersonal Communication ................................ 3
- HIS 10 History of the Modern World OR
- HIS 11 Introduction to the Modern World .................................................... 3

Total 17

**Required Areas of Study**
- ART 10 Art Survey OR
- MUS 10 Music Survey .................................................................................... 1
- BIO 24 Human Anatomy & Physiology II ..................................................... 4
- CHM 17 Fundamentals of General Chemistry I ........................................... 4
- BIO 22 Medical Terminology ........................................................................ 2
- LAW 45 Medical Law .................................................................................... 3
- PHY 24 Principles of General Physics ......................................................... 4

Total 18

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

Total 28

**Note:** At least two courses must be taken from a list designated as “Writing Intensive” as published each semester in the Registration Guide and Schedule of Classes.

* Parts or all of these courses are taught at Montefiore Medical Center including NMT 78, 79, NMT 71 and 81-88 are taught sequentially, although listed concurrently. These instructional hours for NMT 81-84 generally extend from January through May, just prior to the start of clinical training. Students may not register for any NMT course without permission of the Program Director.