RADIOLOGIC TECHNOLOGY

Associate in Applied Science Degree | Career Program
Department of Nursing and Allied Health Sciences

Program Description

A radiologic technologist is a skilled professional who provides a specialized health care service. This rewarding profession involves the operation of sophisticated equipment in a rapidly expanding field. The Radiologic Technology Program in the Department of Nursing and Allied Health Sciences at Bronx Community College prepares students as entry-level qualified licensed and registered radiographers.

The term "diagnostic radiography" is used to describe a variety of radiographic or x-ray examinations. Most people are familiar with chest x-rays and also x-rays to diagnose broken bones. The radiographer performs these procedures as well as those which require the use of contrast agents that make it possible to study organs that otherwise cannot be seen.

Students receive their clinical education at Montefiore Medical Center, Jacobi Medical Center, New York Presbyterian Hospital, or Montefiore Wakefield Division. All facilities are accessible by public transportation.

Upon successful completion of the program, students are eligible for the national and state certifying examinations. Graduates may go on to earn a higher degree in radiological health sciences.

Graduates have a wide selection of clinical settings to choose from, including hospitals and medical centers, out-patient imaging facilities, public health institutions and government and private research institutes that require radiographers.

Mission Statement

The Mission of the Bronx Community College Radiologic Technology Program is to prepare its students for careers in the Diagnostic Imaging Sciences through a challenging, progressive academic and clinical environment. The faculty of the Radiologic Technology Program is committed to graduating competent, compassionate Radiographers with strong communication and patient care skills.

Goals and Student Learning Outcomes of the Radiologic Technology Program

Goal # 1: Graduates will demonstrate clinical competency in radiologic technology.

SLO # 1.1: Students will demonstrate accurate positioning skills to produce diagnostic images.

SLO # 1.2: Students will demonstrate effective patient-care skills.

SLO # 1.3: Students will compute appropriate technical factors and practice principles of ALARA.

SLO # 1.4: Students will utilize principles of radiation protection.

Goal # 2: Graduates will demonstrate effective communication skills.

SLO # 2.1: Students will demonstrate proficiency in written communication skills.

SLO # 2.2: Students will demonstrate effective oral communication skills in the clinical aspect of the program.

Goal # 3: Graduates will demonstrate critical thinking and problem-solving skills.

SLO # 3.1: Students will apply alternate methodologies for imaging trauma patients.

SLO # 3.2: Students will recognize the quality of diagnostic radiographic images.

SLO # 3.3: Students will demonstrate ability to modify and improve image quality.

Goal # 4: Graduates will demonstrate professionalism.

SLO # 4.1: Students will conduct themselves according to professional standards.

SLO # 4.2: Students will demonstrate understanding of the Code of Ethics.

SLO # 4.3: Students will demonstrate professional development by advancing in the field of radiologic technology and medical imaging.

Admission requirements for Radiologic Technology curriculum include:

- Complete all required remediation

- Achieve a minimum grade of C+ in **BIO 23** and **MTH 13 / 30** by the conclusion of spring semester prior to entry. The Radiologic Technology Program only admits students in the fall.

- Possess a minimum cumulative GPA of 2.8 or higher. Be aware that admission to the Radiologic Technology program is competitive, and a GPA of higher than 2.8 may be necessary for admission to the program. Please contact the program director or program advisor for more information. Additional admission information can also be

found in item 4.2.2 of the Codification of Academic Rules and Regulations.

- It is recommended that **ENG 110/111, HIS 10/11, COMM 11, PSY 11, BIO 24,** and **PEA** be completed prior to entry to the Radiologic Technology coursework (RAD and CLE designated courses). Students who have completed **ENG 110/111, HIS 10/11, COMM 11, PSY 11,** and **PEA** courses at another college will have to submit their transcripts.

- Pre-radiologic technology students are allowed two attempts to achieve a C+ in **BIO 23** (Human Anatomy and Physiology I) and **MTH 13** (Trigonometry and College Algebra/**MTH 30** (Pre-Calculus Mathematics). A grade of W (official withdrawal) will not count as an attempt in these two courses. A minimum grade of C+ in these courses is a requirement for admission into the Radiologic Technology Program. The Radiologic Technology Program's Committee on Admissions and Waivers has the right to allow the student an additional attempt when there is evidence of extenuating circumstances. Extenuating circumstances need to have legal and/or official documentation and must be presented to the Committee on Admissions and Waivers before a waiver will be granted.

For a detailed listing of Radiologic Technology admission requirements and academic standards, please see BCC's Academic Rules and Regulations at https://www.bcc.cuny.edu/academics/academic-rules-regulations/

PLEASE NOTE: Radiologic Technology (RAD, CLE) courses are open only to Radiologic Technology majors.

Program Accreditation:

The Radiologic Technology Program is accredited by the Joint Review Committee on Education in Radiologic Technology and the New York State Department of Health. In 2016, the Joint Review Committee on Education in Radiologic Technology awarded the Radiologic Technology program 8-year accreditation.

Complaints may be addressed to the JRCERT at the following address.

Joint Review Committee on Education in Radiologic Technology
20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182
Phone: 312.704.5300 | Fax: 312.704.5304
http://www.jrcert.org/

Ethical Standards, Criminal Background Checks, and Drug Screening

Radiologic science professionals must meet high ethical standards given their essential role in the health care system and the close contact they have with patients. If you are a student who has been charged with or convicted of a misdemeanor or felony (including a conviction of a similar offense in a military court-martial), the Radiology program recommends completing an "Ethics Review Application" that can be obtained from the American Registry of Radiologic Technologist (ARRT). This application can help identify issues that may make a student ineligible for certification and registration. It is a student's responsibility to identify and address any potential issues early, before a student has pursued coursework toward the Radiologic Technology degree.

While the Department of Nursing and Allied Health Sciences at Bronx Community College does not require a criminal background check for admittance to degree programs, the department's educational requirements include placement at one or more hospitals or other off-campus clinical training sites. These sites do frequently require a student to undergo a criminal background check before the student can be placed for clinical training. If based upon the results of a criminal background check, the site determines that a student's participation in its clinical training program would not be in the best interest of the site, the site may deny that student admission to the training program. Even if the student has already begun the placement when the results are received, the site may elect to dismiss the student, regardless of the student's performance while in the training program. Each clinical training site that requires a criminal background check sets its standards and procedures, and you may be asked by the site to pay the cost of the background check. Please note that if a clinical training site determines that you may not take part in its training program based on the results of a criminal background check, you may be unable to complete your course requirements and to continue in the Radiology program. It is essential for you to consider this before you enroll in the Radiology program. Bronx Community College has no obligation to refund your tuition or fees or to otherwise accommodate you in the event you are ineligible to complete your course requirements based on the results of a criminal background check, or if you are denied a license to practice Radiologic Science.

Please note that some of the clinical affiliates require screening for substance abuse. If this is a mandate of the clinical facility, the student must comply with and is responsible for the expense. Failure to comply or a positive finding will result in the student having to withdraw from the Radiology program at the time of the finding. No alternate clinical placement will be accommodated.

Once accepted to the Radiology Program the Program Director will provide students with a handbook, which provides detail information regarding the process and cost of the background check and drug testing.

RADIOLOGIC TECHNOLOGY CURRICULUM (PATHWAYS)

65 Credits required for AAS Degree
Program Director: Professor Manish Sharma

Required Core

A. English Composition

- ENG 110 English Composition I: Fundamentals of Writing and Rhetoric *OR* ENG 111 English Composition I: Writing and Rhetoric (3 Credits)

C. Life and Physical Sciences

- BIO 23 Human Anatomy and Physiology I (4 Credits)

Flexible Core

A. World Cultures and Global Issues

- HIS 10 History of the Modern World *OR* HIS 11 Introduction to the Modern World (3 Credits)

D. Individual and Society

- COMM 11 Fundamentals of Interpersonal Communication (3 Credits)

E. Scientific World

- BIO 24 Human Anatomy and Physiology II (4 Credits)

Additional Flexible Core Requirement – Area D

- PSY 11 Introduction to Psychology (3 Credits)

  SUBTOTAL 20

Major Requirements

- CLE 11 Clinical Radiography Fundamentals (0.5 Credit)
- CLE 15 Clinical Radiography I (0.5 Credit)
- CLE 21 Clinical Radiography II (1 Credit)
- CLE 31 Clinical Radiography III (1 Credit)
- CLE 41 Clinical Radiography IV (1.5 Credit)
- CLE 45 Clinical Radiography V (0.5 Credit)
- CLE 51 Clinical Radiography VI (1.5 Credit)
- CLE 61 Clinical Radiography VII/ Senior Seminar (1 Credit)

- MTH 13[1] Trigonometry and College Algebra (3 Credits)
- PEA Physical Education activity course (1 Credit)
- RAD 11 Fundamentals of Radiologic Sciences and Health Care (3.5 Credits)
- RAD 12 Radiographic Exposure I (2.5 Credits)
- RAD 13 Radiographic Procedures I (3 Credits)
- RAD 15 Radiographic Anatomy I (2 Credits)
- RAD 16 Patient Care and Pharmacology in Radiologic Sciences (2.5 Credits)
- RAD 22 Radiographic Exposure II (2.5 Credits)
- RAD 23 Radiographic Procedures II (3 Credits)
- RAD 24 Radiation Protection (2 Credits)
- RAD 25 Radiographic Anatomy II (1 Credit)
- RAD 32 Imaging Modalities (2 Credits)
- RAD 33 Radiographic Procedures III and Cross Sectional Anatomy (2 Credits)
- RAD 34 Radiographic Pathology (2 Credits)
- RAD 42 Radiation Biology (2 Credits)
- RAD 43 Quality Assessment/Management (1 Credit)
- RAD 71 Radiation Physics (2.5 Credits)

  SUBTOTAL 45

[1] MTH 30 should be considered for transfer to a senior college.

Basic Life Support and Basic First Aid — All radiologic technology students are required to be certified in cardiopulmonary resuscitation and basic first aid by December 15 of their first clinical year. Proof of certification must be submitted to the Program Director. The student is responsible for the cost of the CPR class.

Health Requirements — All radiologic technology students must meet special health requirements to practice in clinical agencies.

Students will be accepted and assigned to clinical experiences and otherwise treated without regard to sex, sexual orientation, race, creed, color, national origin, age, marital or veteran status in accordance with the laws of the city, state and nation.