

Radiography (A.A.S.)

Radiography involves assisting in the diagnosis and management of human illness by producing diagnostic images (also called radiographs or x-rays) of the structures in the body. Students receive hands-on training in radiographic procedures and imaging modalities and in operating room and fluoroscopic procedures. Graduates of the program become eligible to take the American Registry of Radiologic Technologists Board examination for National Registration in addition to the New Jersey State licensure. Upon licensure, graduates will qualify to work with physicians in offices, clinics, and hospitals. As a radiographer, you can specialize in mammography, computed tomography (CT), digital vascular imaging (angiography), and magnetic resonance imaging (MRI). Related jobs can be found in manufacturing firms and medical supply companies. The Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N Wacker Drive, Chicago, IL, 60606 and by the State of New Jersey Department of Environmental Protection Radiologic Technology Board of Examiners. [Learn more about the Radiography Program](#) at Essex County College.

Program Requirements

GENERAL EDUCATION REQUIREMENTS

Written & Oral Communication (6 credits)

[ENG 101](#) (3 credits)

[ENG 102](#) (3 credits)

Quantitative Knowledge & Skills (3 – 4 credits)

Choose one of the following math courses: [MTH 100](#)[MTH 101](#)[MTH 103](#)[MTH 109](#)[MTH 113](#)[MTH 114](#)[MTH 119](#)[MTH 120](#)[MTH 121](#)[MTH 122](#)[MTH 127](#)[MTH 136](#)[MTH 221](#)[MTH 222](#) or [MTH 239](#) (one 3- or 4-credit course)

Scientific Knowledge & Reasoning (4 credits)

[BIO 121](#) (4 credits)

Society & Human Behavior (6 credits)

[PSY 101](#) (3 credits)

[SOC 101](#) (3 credits)

Historical Perspective (3 credits)

Choose one of the following history courses: [HST 101](#)[HST 102](#)[HST 111](#)[HST 112](#)[HST 121](#)[HST 122](#)[HST 131](#)[HST 132](#)[HST 134](#)[HST 135](#)[HST 136](#)[HST 137](#)[HST 161](#) or [HST 162](#) (one 3-credit course)

MAJOR COURSE REQUIREMENTS

[BIO 122](#) Anatomy & Physiology II (4 credits)

[HSC 109](#) Medical Terminology (3 credits)

[RTC 100](#) Radiologic Technology I (2 credits)

[RTC 101](#) Radiologic Positioning Principles I (4 credits)

[RTC 103](#) Patient Care/Ethics (2 credits)

[RTC 104](#) Radiation Protection (2 credits)

[RTC 105](#) Radiologic Technology II (2 credits)

[RTC 106](#) Radiologic Positioning Principles II (4 credits)

[RTC 107](#) Contrast Media (Pharmacology) (2 credits)

[RTC 108](#) Clinical Radiography I (1 credit)

[RTC 109](#) Radiologic Positioning Principles III (2 credits)

[RTC 110](#) Radiologic Advanced Positioning Principles IV (1 credit)

[RTC 111](#) Clinical Radiography II (1 credit)

[RTC 112](#) Clinical Radiography III (2 credits)

[RTC 200](#) Radiographic Pathology (2 credits)

[RTC 201](#) Radiation Biology (2 credits)

[RTC 202](#) Clinical Radiography IV (1 credits)

[RTC 203](#) Special Procedures (3 credits)

[RTC 204](#) Pediatric/Geriatric Radiography (1 credit)

[RTC 205](#) Clinical Radiography V (2 credits)

[RTC 206](#) Clinical Radiography VI (2 credits)

[RTC 207](#) Clinical Radiography VII (1 credits)

[RTC 210](#) Radiography Seminar (2 credits)

Notes:

(1) The minimum passing grade for all courses designated BIO, HSC, MTH, and RTC is "C." If you earn a grade below "C," you need to repeat that course.

(2) [BIO 121](#) and [BIO 122](#) must be completed at the same institution within 5 years of application to the Radiography program.

(3) Students enrolled in the Radiography program will be subject to criminal background checks, health clearance, CPR certification, and possible drug screen at their own expense. Adverse results may disqualify students from clinical participation in which case the student will be unable to complete program requirements and, therefore, must withdraw from the Radiography Program.

RECOMMENDED SEQUENCE OF COURSES

Total Credits Required for Degree: 70 – 71

Pre-admission (Pre-requisite) Courses

[ENG 101](#) College Composition I (3 credits)

[BIO 121](#) Anatomy & Physiology I (4 credits)

[HSC 109](#) Medical Terminology (3 credits)

Quantitative Knowledge & Skills requirement (one 3- or 4-credit course)

Note: All pre-requisite courses must be completed by the end of the Spring semester if applying for admission to the program in the following Fall semester.

First Semester

[RTC 100](#) Radiologic Technology I (2 credits)

[RTC 101](#) Radiologic Positioning Principles I (4 credits)

[RTC 103](#) Patient Care/Ethics (2 credits)

[RTC 108](#) Clinical Radiography I (1 credit)

[BIO 122](#) Anatomy & Physiology II (4 credits)

Second Semester

[RTC 104](#) Radiation Protection (2 credits)

[RTC 105](#) Radiologic Technology II (2 credits)

[RTC 106](#) Radiologic Positioning Principles II (4 credits)

[RTC 107](#) Contrast Media (Pharmacology) (2 credits)

[RTC 111](#) Clinical Radiography II (1 credit)

[PSY 101](#) General Psychology I: Personality & Social Aspects (3 credits)

Summer Session

[RTC 109](#) Radiologic Positioning Principles III (2 credits)

[RTC 110](#) Radiologic Advanced Positioning Principles IV (1 credit)

[RTC 112](#) Clinical Radiography III (2 credits)

[RTC 202](#) Clinical Radiography IV (1 credits)

Third Semester

[RTC 200](#) Radiographic Pathology (2 credits)

[RTC 201](#) Radiation Biology (2 credits)

[RTC 205](#) Clinical Radiography V (2 credits)

[ENG 102](#) College Composition II (3 credits)

[SOC 101](#) Introduction to Sociology (3 credits)

Fourth Semester

[RTC 203](#) Special Procedures (3 credits)

[RTC 204](#) Pediatric/Geriatric Radiography (1 credit)

[RTC 206](#) Clinical Radiography VI (2 credits)

Historical Perspective requirement (one 3-credit course)

Summer Session

[RTC 207](#) Clinical Radiography VII (1 credits)

[RTC 210](#) Radiography Seminar (2 credits)