

Radiologic Technology

Degree Awarded: Associate in Applied Science

Accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT) 20 N. Wacker Drive, Chicago, IL 60606-2901 (312) 704-5300 in cooperation with the NYS Board of Health

Recommended Course Sequence

| First Semester | Credits |
|--|---------|
| BIO 111 Anatomy & Physiology 1 | 4 |
| EET 110 Computer Applications and Graphics | 3 |
| RAD 101 Prin. of Radiographic Exposure 1 | 4 |
| RAD 103 Introduction to Radiography | 1 |
| RAD 105 Radiographic Positioning 1 | 4 |
| RAD 107 Methods of Patient Care 1 | 2 |
| Second Semester | |
| BIO 112 Anatomy & Physiology 2 | 4 |
| ENG 101 Freshman English 1 | 3 |
| RAD 102 Prin. of Radiographic Exposure 2 | 4 |
| RAD 104 Radiation Protection | 1 |
| RAD 106 Radiographic Positioning 2 | 4 |
| RAD 108 Methods of Patient Care 2 | 1 |
| RAD 111 Clinical Practicum 1 | 1 |
| First Summer Clinical | |
| RAD 112 Clinical Practicum 2 | 2 |
| Third Semester | |
| ENG 102 Freshman English 2 | 3 |
| PES 100 Concepts of Physical Wellness | 1 |
| PSY 101 General Psychology 1 | 3 |
| RAD 209 Radiographic Physics | 4 |
| RAD 213 Clinical Practicum 3 | 1.5 |
| RAD 217 Radiographic Positioning 3 | 2 |
| RAD 221 Radiographic Pathology | 3 |
| Fourth Semester | |
| PES ____ Physical Education | 1 |
| PSY 102 General Psychology 2 | 3 |
| RAD 210 Quality Assurance | 1 |
| RAD 214 Clinical Practicum 4 | 1.5 |
| RAD 216 Advanced Imaging Modalities | 3 |
| RAD 218 Radiation Biology | 2 |
| RAD 219 Medical Terminology | 1 |
| Second Summer Clinical | |
| RAD 215 Clinical Practicum 5 | 2 |

Total Credits: 70

Program Description

The Associate in Applied Science degree program in Radiologic Technology prepares students to apply to take the Registry exam offered by the American Registry of Radiologic Technologists to become a radiographer. An essential member of the healthcare team, the radiographer positions body parts accurately and manipulates radiographic equipment to produce a quality diagnostic image with the least amount of radiation necessary.

The Radiologic Technology program is dedicated to providing each student with the educational activities necessary to develop the required critical thinking and technical and interpersonal skills of the radiographer. The highly skilled radiographer is educated in properly caring for the patient's needs during the radiographic examination, manipulates radiographic and computerized equipment, as well as adheres to protocols in bedside, CT and operating room areas, selects technical factors and diagnostic parameters, instructs and assists the patient in order to obtain the necessary positioning, demonstrates appropriate application of radiation safety principles of "time, distance and shielding," in order to protect the patient, self and others, exhibits care and accuracy in the administration, preparation and disposal of drugs and contrast agents.

Note: The Radiologic Technology program, as well as the field of radiologic technology, is a rigorous one. Program standards are not altered for disabled students. The College will make every effort to provide reasonable accommodations to students with disabling conditions.

Admission Criteria

Academic Requirements:

- High school diploma or GED
- Eligible to take Freshman English I (ENG 101)
- Eligible to take College Algebra (MAT 121), or have completed Intermediate Algebra (MAT 102) or equivalent with a 2.0 or higher
- Completed High School AP Biology (score of 3, 4, or 5) or a passing grade in the Biology CLEP examination; or introduction to Biology or Anatomy & Physiology 1 with a grade of 2.0 or better (within 5 years of program entry)
- Minimum cumulative GPA of 2.5

Department-Specific Requirements:

- Attendance at a pre-admission orientation. At this orientation, students will receive and sign off on information pertaining to technical standards, health forms, and criminal record policies.

Note: Admission to this program is selective. In addition to an application to the College, students must apply for acceptance into this program through the Admissions office. Consideration for admission is based on the completion of all mandatory academic and departmental-specific requirements, highest combination of CQPA and credits completed towards the degree, Orange County residency and seat availability. All requirements must be completed and an eligibility form must be submitted to the Admissions Office before February 1 in order for a student to be considered for acceptance into this program for the Fall semester.

At the time prospective students submit their applications to the American Registry of Radiologic Technologists and the New York State Department of Health, they must make a statement about their conviction record, if any. If they would have to answer "yes" to a question about a felony conviction, they should contact the NYS Department of Health (518) 402-7580 AND The American Registry of Radiologic Technologist (651) 687-0048. Both of these agencies MUST be contacted to determine if students will be eligible to sit for the certification exam and/or to be licensed.

Student Learning Outcomes

Students will:

- demonstrate the ability to think critically when performing radiographic procedures.
- demonstrate the technical skills necessary to create quality radiographic images while applying radiation protection practices.
- effectively interact and communicate with the public, patients and members of the healthcare team.
- demonstrate the ability to properly care for patients.
- with speed and accuracy, meet these following technical standards:
 - place the patient in position, set the controls of the x-ray machine and evaluate the quality of the radiographic image.
 - provide patient instructions and respond to questions and requests in both routine and emergency situations.
 - transport and assist the patient, and to move the x-ray machine and image receptor to the desired position, including operation of equipment in the surgical suite and at the patient's bedside.

Career Opportunities

- hospitals, clinics, medical imaging centers, doctors' offices, educational facilities and equipment manufacturers as:
- radiographers and special procedures technologists
- mammographers, CT technologists and MRI technologists
- nuclear medicine technologists, PET/CT technologists
- radiation therapists
- sales personnel, educators, clinical instructors and hospital administrators

Transfer Opportunities

The A.A.S. degree is primarily intended to prepare students for immediate employment; however, some graduates have gone on to further study in radiation therapy, nuclear medicine, cardiac catheterization and education.

Contact Information

Diagnostic Imaging
Department Chair
(845) 341-4277
Admissions Office
(845) 341-4030