

# Radiologic Technology Degree Map



● CAREER DEGREE    M MIDDLETOWN CAMPUS

## A Day in the Life ...

Radiographers work as part of the healthcare team in a variety of areas such as the operating and emergency rooms, urgent cares, orthopedics, private practices and many other locations. Radiologic Technologists provide patient care, use technical equipment, and position patients to obtain quality images of various body parts using radiation (x-rays) with the least dose possible.

## Three Reasons to Consider Radiologic Technology

1. The program at SUNY Orange has taught students to become radiologic technologists since 1989; that's more than 30 years!
2. Over the history of the program, our National Boards pass rate is higher than 99%.
3. There is job security in healthcare. Employers consistently seek to hire our graduates. Plus, let's face it, looking inside someone's body is pretty amazing.

## Keep This in Mind

After graduating and passing the national boards, you can advance to learn Computed Tomography, Magnetic Resonance Imaging, Mammography, Interventional Procedures or a variety of other diagnostic modalities, as well as management/administration roles.

You need excellent communication and interpersonal skills to work with patients, doctors and various members of the healthcare team to provide the best possible outcomes for patients.

The profession requires great attention to detail not only in reviewing the patient's images, but also recording patient histories, medical charting, exam verification and other tasks where details are extremely important related to medical records and care.

Yes, we have to touch patients and see blood! There's an odd, yet common, misconception that radiographers don't have to talk to patients or touch them and will never see blood, which is very inaccurate. For more details see "What they don't tell you about Radiology" on the [department website](#).

## Radiologic Technology Gateway Courses:

- Gateway courses: MAT 102, BIO \_\_\_ (list of options on advising sheet); BIO 110, ENG 101
- Key courses: ENG 101, ENG 102, BIO 111, BIO 112, SOC 101, PSY 111, RAD 219, CIT 100

*Courses above have been recommended by the department to help introduce you to the program (Gateway courses) and guide you in selecting courses that will provide you with the best academic experience (Key courses and suggested Electives).*

## First Semester

Course #	Course Name	P, C, P/C	Cr
ENG 101	Freshman English 1 (G10A [w] & G11A)	P	3
BIO 111	Anatomy and Physiology 1 (G2A)	P	4
RAD 101	Principles of Radiographic Exposure 1	P/C	4
RAD 103	Introduction to Radiography	P/C	1
RAD 105	Radiographic Positioning 1	P/C	4
RAD 107	Methods of Patient Care 1	P/C	2
RAD 219	Medical Terminology	P	1
	Total Semester Credits		19

## Milestones

During this semester, students should:

- New students start their first semester/first year every Fall and are called "Junior" students

## Second Semester

Course #	Course Name	P, C, P/C	Cr
ENG 102	Freshman English 2 (G7A & G12A)	P	3
BIO 112	Anatomy and Physiology 2 (G2A)	P	4
RAD 102	Principles of Radiographic Exposure 2	P/C	4
RAD 104	Radiation Protection	P/C	1
RAD 106	Radiographic Positioning 2	P/C	4
RAD 108	Methods of Patient Care 2	P/C	1
RAD 111	Clinical Practicum 1	P/C	1
	Total Semester Credits		18

# SUNY Orange

## Milestones

During this semester, students should:

- Spring, second semester Junior students go to clinical for first time and continue going until end of program

## First Summer Clinical

Course #	Course Name	P, C, P/C	Cr
RAD 112	Clinical Practicum 2	P	2

## Milestones

During this semester, students should:

- Summer, third semester students are at clinical 8 am to 4 pm
- Make Case Presentation #1

## Third Semester

Course #	Course Name	P, C, P/C	Cr
MAT 121 or higher	College Algebra or higher (G1A)		3
PSY 111	Introduction to Psychology (G3A)		3
RAD 209	Radiographic Physics	P/C	2
RAD 213	Clinical Practicum 3	P/C	1.5
RAD 217	Radiographic Positioning 3	P/C	2
RAD 221	Radiographic Pathology	P/C	3
	Total Semester Credits		14.5

## Milestones

During this semester, students should:

- Fall of the second year, students are now “Seniors” finishing their last year

## Fourth Semester

Course #	Course Name	P, C, P/C	Cr
COM 100*	Oral Communication* (G10A [o])	P	1
SOC 101	Introduction to Sociology (G3A & G6A)		3
CIT 100	Computer Literacy		3
RAD 214	Clinical Practicum 4	P/C	1.5
RAD 216	Advanced Imaging Modalities	P/C	3
RAD 218	Radiation Biology	P/C	2
RAD 222	Medical Imaging Ethics & Law		1
	Total Semester Credits		14.5

## Milestones

During this semester, students should:

- Spring Senior year students apply for graduation, and walk in May Commencement ceremony
- Apply for state license

## Second Summer Clinical

Course #	Course Name	P, C, P/C	Cr
RAD 215	Clinical Practicum 5	P	2

## Milestones

During this semester, students should:

- Finish degree requirements
- Make Case Presentation #2
- Obtain temporary state permit to work when complete
- Set appointment for national boards
- Attend pinning ceremony to celebrate program completion

**TOTAL DEGREE CREDITS: 70**

**Notes:**

\*COM 101 satisfies the requirement of COM 100