

# RADIOLOGIC TECHNOLOGY, A.A.S. - RAD3

The Radiologic Technology curriculum is designed to assist students in acquiring the general and technical competencies necessary to enter the radiography profession. Radiographers use state of the art equipment to produce diagnostic medical images in a variety of health care settings. This requires an application of combined knowledge in anatomy, physics, procedures, imaging techniques and patient care.

The constant growth in the field has created new and exciting career opportunities in specialty areas. Graduates may also choose to pursue an advanced degree. Graduates qualify to sit for the American Registry of Radiologic Technology.

**Admission:** Acceptance into Piedmont Technical College's RAD program is competitive and is limited to 20 students to begin fall semester. See the college calendar or website for application dates.

To become eligible for entry into the Radiologic Technology major studies coursework, applicants must complete the following:

1. Complete the following courses (minimum "C" grade required):

Courses	Course Title	Credit Hours
BIO 210	Anatomy and Physiology I	4
BIO 211	Anatomy and Physiology II	4
ENG 101	English Composition I	3
MAT 102 or MAT 120	Intermediate Algebra Probability and Statistics	3
PSY 201	General Psychology	3

2. Minimum grade point average for the above courses of 2.5. A grade point average calculator can be found under the Application and Advising tab.
3. Good academic standing at the college.

Students are required to maintain a current American Heart Association "Basic Life Support" certification throughout the major studies courses.

**Major Studies Courses:** Completion of the Associate in Applied Science with a major in Radiologic Technology requires five (5) semesters upon acceptance to the major studies coursework.

## Requirements

Courses	Course Title	Credit Hours
<b>General Education Courses</b>		
BIO 210	Anatomy and Physiology I	4
BIO 211	Anatomy and Physiology II	4
ENG 101	English Composition I	3
MAT 102 or MAT 120	Intermediate Algebra Probability and Statistics	3
PSY 201	General Psychology	3

Elective Humanities/Fine Arts (<https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/>) 3

Subtotal 20

### Required Core Subject Areas

RAD 101	Introduction to Radiography	2
RAD 102	Radiology Patient Care Procedures	2
RAD 110	Radiographic Imaging I	3
RAD 115	Radiographic Imaging II	3
RAD 121	Radiographic Physics	4
RAD 130	Radiographic Procedures I	3
RAD 136	Radiographic Procedures II	3
RAD 155	Applied Radiography I	5
RAD 165	Applied Radiography II	5
RAD 176	Applied Radiography III	6
RAD 201	Radiation Biology	2
RAD 205	Radiographic Pathology	2
RAD 225	Selected Radiographic Topics	2
RAD 230	Radiographic Procedures III	3
RAD 235	Radiography Seminar I	1
RAD 236	Radiography Seminar II	2
RAD 256	Advanced Radiography I	6
RAD 268	Advanced Radiography II	8
RAD 282	Imaging Practicum	2
Subtotal		64
Total Hours		84

## Graduation Plan

Enrollment in clinical coursework requires admission to the program. See Application and Advising section for more information.

### Fall Start

Course	Title	Hours
<b>First Year</b>		
<b>Fall Semester</b>		
BIO 210	Anatomy and Physiology I	4
ENG 101	English Composition I	3
MAT 102 or MAT 120	Intermediate Algebra or Probability and Statistics	3
Hours		10

### Spring Semester

BIO 211	Anatomy and Physiology II	4
PSY 201	General Psychology	3
Elective Humanities/Fine Arts ( <a href="https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/">https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/</a> )		3
Hours		10

### Second Year

<b>Fall Semester</b>		
RAD 101	Introduction to Radiography	2
RAD 102	Radiology Patient Care Procedures	2

RAD 130	Radiographic Procedures I	3
RAD 155	Applied Radiography I	5
	Hours	12
<b>Spring Semester</b>		
RAD 110	Radiographic Imaging I	3
RAD 136	Radiographic Procedures II	3
RAD 165	Applied Radiography II	5
RAD 201	Radiation Biology	2
	Hours	13
<b>Summer Semester</b>		
RAD 176	Applied Radiography III	6
RAD 235	Radiography Seminar I	1
RAD 282	Imaging Practicum	2
	Hours	9
<b>Third Year</b>		
<b>Fall Semester</b>		
RAD 115	Radiographic Imaging II	3
RAD 121	Radiographic Physics	4
RAD 230	Radiographic Procedures III	3
RAD 256	Advanced Radiography I	6
	Hours	16
<b>Spring Semester</b>		
RAD 205	Radiographic Pathology	2
RAD 225	Selected Radiographic Topics	2
RAD 236	Radiography Seminar II	2
RAD 268	Advanced Radiography II	8
	Hours	14
	Total Hours	84

## Application Process

This is a limited enrollment program that has special admissions requirements. These requirements must be completed before you can be accepted.

If you are a new student, there are three key steps to complete before entering the program:

- Step 1: Apply to the college and complete the enrollment process (<https://www.ptc.edu/admissions/new-students/>)
- Step 2: Take the necessary courses to become Program-Ready
- Step 3: Apply to the program

## Are you Program-Ready?

Before applying for program entry, be sure you meet the requirements for acceptance. Start by connecting with an advisor and review program requirements.

We've also provided the resources below to assist you with the program acceptance process.

## Fact Sheet

Fact Sheets are designed for students and advisors to review program-specific requirements and program application procedures. Please make an appointment with your advisor to discuss your academic goals and progress, and to develop your individualized degree plan.

Review the Fact Sheet ([https://www.ptc.edu/sites/default/files/documents/new\\_healthcare\\_documents/rad-factsheet.pdf](https://www.ptc.edu/sites/default/files/documents/new_healthcare_documents/rad-factsheet.pdf))

## GPA Calculator

There are minimum GPA requirements for program-ready coursework. The Program-Ready GPA Calculator can be used to calculate your GPA.

Use GPA Calculator ([https://websrv.ptc.edu/program\\_ready\\_gpa\\_calc/](https://websrv.ptc.edu/program_ready_gpa_calc/))

## Application Worksheet

The application worksheet is used to calculate points toward competitive program entry.

Review the Worksheet ([https://www.ptc.edu/sites/default/files/documents/new\\_healthcare\\_documents/rad-app-worksheet.pdf](https://www.ptc.edu/sites/default/files/documents/new_healthcare_documents/rad-app-worksheet.pdf))

## Health Care Program Acceptance Data

These are NOT the scores required to be accepted. These are scores from past applicants that were accepted. Since the applicant pool changes each time, there is no way to predict how high the application points need to be for acceptance into the program.

Acceptance Data ([https://www.ptc.edu/sites/default/files/documents/new\\_healthcare\\_documents/hc-acceptance-data.pdf](https://www.ptc.edu/sites/default/files/documents/new_healthcare_documents/hc-acceptance-data.pdf))

## Guided Pathways

Guided Pathways are designed to assist students in scheduling the order of courses to become program-ready or to complete the Health Care Certificate for their desired program.

- College Prep Pathway ([https://www.ptc.edu/sites/default/files/documents/new\\_healthcare\\_documents/rad-pathway-college-prep.pdf](https://www.ptc.edu/sites/default/files/documents/new_healthcare_documents/rad-pathway-college-prep.pdf))
- College Ready Pathway ([https://www.ptc.edu/sites/default/files/documents/new\\_healthcare\\_documents/rad-pathway-college-ready.pdf](https://www.ptc.edu/sites/default/files/documents/new_healthcare_documents/rad-pathway-college-ready.pdf))
- Transitional Pathway ([https://www.ptc.edu/sites/default/files/documents/new\\_healthcare\\_documents/rad-pathway-transitional.pdf](https://www.ptc.edu/sites/default/files/documents/new_healthcare_documents/rad-pathway-transitional.pdf))

## Health Care FAQ

We strongly recommend that students review the Health Care Division FAQ to be fully aware of our program entry requirements.

Learn More (<https://www.ptc.edu/academics/schools-programs/health-care/program-ready-resources/health-care-faq/>)

## Apply to the Program

Once you've taken the necessary steps to become program ready, it's time to apply to the program.

Applications are accepted for the fall entry into college health care programs on the following schedule:

- Application Dates - May 1-16
- Notification of Program Acceptance Emails Sent - Mid June\*

Program applications must be submitted during the scheduled dates for this program to be considered.

**Note:** If you haven't already done so, you must apply to the college (<https://www.ptc.edu/admissions/new-students/>) before completing the program application.

Complete The Program Application (<https://ptcgwd.wufoo.com/forms/pehb2o70w1s8l3/>)

\* Students accepted into any Health Care program will be required to attend a program orientation. Accepted students will NOT be excused from attending this mandatory orientation.

## Current Student Program Resources

### Radiologic Technology Handbook

Read the Handbook ([https://www.ptc.edu/sites/default/files/documents/new\\_healthcare\\_documents/rad-handbook.pdf](https://www.ptc.edu/sites/default/files/documents/new_healthcare_documents/rad-handbook.pdf))

### Radiologic Technology Information Packet

Read the Information Packet ([https://www.ptc.edu/sites/default/files/documents/new\\_healthcare\\_documents/rad-information-packet.pdf](https://www.ptc.edu/sites/default/files/documents/new_healthcare_documents/rad-information-packet.pdf))

### Health Care Division Handbook

This handbook is designed to be utilized in conjunction with the PTC Academic Catalog, PTC Student Calendar and Handbook and PTC Health Care webpages. Please refer to them for additional information.

Read the Handbook ([https://www.ptc.edu/sites/default/files/documents/new\\_healthcare\\_documents/hc-handbook.pdf](https://www.ptc.edu/sites/default/files/documents/new_healthcare_documents/hc-handbook.pdf))

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### Health Care Readmission

Health Care readmission students who fail or withdraw from a Health Care curriculum class must complete and submit a readmission application in order to be considered for readmission.

Complete the Form (<https://www.ptc.edu/health-care-readmission/>)

## Accreditation Information

The Radiologic Technology program is accredited by:

The Joint Review Committee on Education in Radiologic Technology  
20 North Wacker Drive, Suite 2850  
Chicago, Illinois 60606-3182  
(312) 704-5300

[www.jrcert.org](http://www.jrcert.org/) (<http://www.jrcert.org/>)

### Program Effectiveness Data

Radiography Program Effectiveness Data, Mission and Goals ([https://www.ptc.edu/sites/default/files/documents/new\\_healthcare\\_documents/rad-outcomes.pdf](https://www.ptc.edu/sites/default/files/documents/new_healthcare_documents/rad-outcomes.pdf))

### Accreditation Status

Accreditation Award Letter ([https://www.ptc.edu/sites/default/files/documents/new\\_healthcare\\_documents/rad-0256-award-letter.pdf](https://www.ptc.edu/sites/default/files/documents/new_healthcare_documents/rad-0256-award-letter.pdf))

## Program Student Learning Outcomes

### Purpose Statement

The mission of the Radiological Technology Program of Piedmont Technical College is to provide an economically feasible didactic and clinical competency based curriculum to provide students from diverse backgrounds the opportunity to master skills required for entry level job market in diagnostic radiology, transfer to Baccalaureate programs or seek; sub-specialty education and or employment. This Associate degree program also strives to assist students in achieving personal and professional goals as well as instill life-long learning values.

- Goal: Students will graduate with the necessary skills to function effectively as an entry level radiographer.
- Goal: Students/graduates will provide quality patient care.
- Goal: Students will value-life-long learning as a means of achieving personal and professional growth. Goal: Students will effectively communicate in a professional manner.
- Goal: Students will demonstrate critical thinking and problem solving skills.
- Goal: Provide a learning environment for students that stimulate personal and professional growth. Goal: Meet employment needs without saturating the market with unemployable graduates.

### Program Student Learning Outcomes

1. Provide proper patient care.
2. Operate all diagnostic and auxiliary equipment found in most radiology departments.
3. Apply rules of radiation safety when operations any ionizing producing radiographic equipment.
4. Calculate the technical changes necessary to produce a diagnostic radiograph under abnormal circumstances as evidence by selecting the correct factors.
5. Evaluate and respond to radiographic systems performance with respect to quality and safety.