

MEDICAL IMAGING

pcc.edu/programs/medical-imaging/

CAREER AND PROGRAM DESCRIPTION RADIOGRAPHY PROGRAM

Radiographers are important members of the health care team and work closely with physicians and particularly with radiologists. The radiographer is primarily concerned with providing diagnostic radiographic images (x-rays) of disease and injury and assisting in patient care. The radiographer may be employed in hospitals, clinics and medical offices.

Radiography graduates may apply to take the national certification examination offered by the American Registry of Radiologic Technologists (ARRT) and for licensure as a radiographer in the state of Oregon and Washington.

PCC's program begins each June with an introductory course. The Radiography Program is eight terms in length (24 consecutive months). The program combines campus instruction with clinical education at affiliated hospitals in the Portland area. This program is designed to prepare the student for certification as a Registered Technologist in Radiography, R.T. (R).

CT TECHNOLOGIST TRAINING PROGRAM

Note: this program is not accepting students for 2024-25

CT Technologists are important members of the health care team and work closely with Radiologists to produce diagnostic CT images. Computed Tomography requires additional training beyond the primary certification earned in Radiography. Nuclear Medicine Technologists who will perform PET/CT may enroll in this program, which meets the State of Oregon requirements for CT Training.

The CT Technologist Training Program is four terms in length (12 consecutive months). The program combines campus and online instruction with clinical education at affiliated hospitals. Upon completion of this program, students will be qualified to sit for the national CT certification examination offered by the American Registry of Radiologic Technologists (ARRT).

Special admission required for registration. Applicants must be registry eligible or currently registered, in good standing, in Radiography or Nuclear Medicine to apply to the program. Acceptance into the program is based on clinical seat availability which varies from year to year.

MRI TECHNOLOGIST TRAINING PROGRAM

MRI Technologists are important members of the health care team and work closely with Radiologists to produce diagnostic MR images. Magnetic Resonance Imaging requires additional training beyond the primary certification earned in Radiography, Nuclear Medicine, Ultrasound or Radiation Therapy. Upon completion of this program, students will be qualified to sit for the national MRI Certification examination offered by the American Registry of Radiologic Technologists (ARRT).

The MRI Technologist Training Program is three terms in length (9 consecutive months). The program combines campus and online instruction with clinical education at affiliated hospitals. Applicants must be a Registered Radiologic Technologist ARRT(R), Registered Nuclear Medicine Technologist ARRT(N) or (CNMT), Registered Radiation Therapy Technologist ARRT(T) or Registered Medical Sonographer (RDMS) in good standing with one-year experience preferred. Technologists with less than one year experience may be admitted with Director permission. Refer to College catalog for program curriculum

MEDICAL IMAGING CONTINUING EDUCATION COURSES

College credit courses are available to A.R.R.T certified technologists for updating and re-entry knowledge and skills. See the Medical Imaging website for specific offerings each term. Special admission required for registration. Contact the Medical Imaging department for information at 971-722-4227.

DEGREES AND CERTIFICATES OFFERED ASSOCIATE OF APPLIED SCIENCE DEGREE

Radiography

LESS THAN ONE-YEAR CERTIFICATE

Computed Tomography
Magnetic Resonance Imaging

Academic Prerequisites

Radiography

- All program applicants must have a high school diploma or a GED certificate. In addition, all applicants will be required to have satisfactorily completed (minimum letter grade "C") WR 121Z, MTH 95, BI 231, BI 232 and BI 233, MP 111 or the equivalent. Pass/No Pass grade is not acceptable in prerequisites.
- BI 231, BI 232, BI 233 and MTH 95 must be current within seven years of application. All prerequisites must be completed by end of winter term in the year in which you apply.
- The Radiography Program is a limited entry program with restricted enrollment. Completing admission requirements and applying to the program does not guarantee admission.
 - All students must be formally admitted in order to enroll in the radiography courses. Other enrollees must have program permission.
 - For information on specific application procedures and deadlines, please contact the Health Admissions Office at 971-722-4795 or visit the website www.pcc.edu/hao.

Computed Tomography Technologist Training Program

- Applicants must be registry eligible or currently registered, in good standing, in Radiography ARRT(R) or Nuclear Medicine ARRT(N) or (CNMT) to apply to the program.
- The CT Technologist Training Program is a limited entry program with restricted enrollment. Completing admission requirements and applying to the program does not guarantee admission.
 - All students must be formally admitted in order to enroll in the Computed Tomography courses.
 - For information on specific application procedures and deadlines, please contact the Health Admissions Office at 971-722-4795 or visit the website www.pcc.edu/hao.

Magnetic Resonance Imaging Technologist Training Program

- Applicants must be a Registered Radiologic Technologist ARRT(R), Registered Nuclear Medicine Technologist ARRT(N) or (CNMT), Registered Radiation Therapy Technologist ARRT(T) or Registered Medical Sonographer (RDMS) in good standing with one-year experience preferred. Technologists with less than one year experience may be admitted with Director permission.
- The MRI Technologist training program is a limited entry program with restricted enrollment. Completing admission requirements and applying to the program does not guarantee admission.
 - All students must be formally admitted in order to enroll in the MRI courses.
 - For information on specific application procedures and deadlines, please contact the Health Admissions Office at 971-722-4795 or visit the website www.pcc.edu/hao.

Academic Requirements

Radiography

- Students are required to satisfactorily complete the course of study with a letter grade of "C" or better in each required course and must maintain an overall grade point average of 2.0 for graduation. RAD 216 is exempt from the grade expectation as it is offered for Pass/No Pass only.

Computed Tomography Technologist Training Program

- Students are required to satisfactorily complete the course of study with a letter grade of "C" or better in each didactic course and a letter grade of "B" or better in the clinical courses.

Magnetic Resonance Imaging Technologist Training Program

- Students in the Magnetic Resonance Imaging Certificate program must complete all MRI courses with a letter grade of "C" or better.

Non-Academic Prerequisites

Radiography

- The Radiography Program does not require a computer science prerequisite; however, success in a Radiography Program requires that students be computer literate, including, at least, word processing, use of spreadsheets and web searches. Students with no computer experience should discuss with an advisor ways to achieve competency prior to entering the Radiography Program.
- Potential applicants are encouraged but not required to gain health care experience by volunteering or working in the health care industry, preferably in a hospital setting to gain knowledge of professional duties and responsibilities.
- Once accepted to the program, students will be required to submit to a criminal background check and a drug screen for their clinical practicum. Students must be able to provide a valid Social Security number for the criminal background check. Proof of immunizations will also be required. For a complete listing of required immunizations, please visit our website at www.pcc.edu/rad.
- During the course of the program students will be working with ionizing radiation, processing chemicals and they will provide patient care to individuals who may have contagious diseases. Special immunization is required.

Computed Tomography Technologist Training Program

- Once accepted to the program, students will be required to submit to a criminal background check and a drug screen for their clinical practicum. Students must be able to provide a valid Social Security Number for the criminal background check. Proof of immunizations may also be required. For a complete list of required immunizations, please visit the Medical Imaging website.

Magnetic Resonance Imaging Technologist Training Program

- Once accepted to the program, students will be required to submit to a criminal background check and a drug screen for their clinical practicum. Students must be able to provide a valid Social Security Number for the criminal background check. Proof of immunizations may also be required. For a complete list of required immunizations, please visit the Medical Imaging website.

Non-Academic Requirements

- None

RADIOGRAPHY AAS DEGREE

Minimum 102.5 credits. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of four courses of General Education. In addition to required courses in the program of

study, students must satisfy MTH 58/65 competency. Students should consult with program advisors for course planning.

Course of Study

The coursework listed below is required. The following is an example of a term-by-term breakdown.

Summer Term		Credits
RAD 100	Introduction to Radiography	2
First Term		
RAD 101	Radiographic Positioning I	3
RAD 105	Methods of Patient Care	3
RAD 106	Radiographic Equipment I	4
RAD 110	Radiographic Clinic I	4.5
Second Term		
RAD 102	Radiographic Positioning II	3
RAD 107	Radiographic Equipment II	4
RAD 115	Principles of Exposure	3
RAD 120	Radiographic Clinic II	4.5
Third Term		
RAD 103	Radiographic Positioning III	3
RAD 203	Applied Radiography Topics	2
RAD 130	Radiographic Clinic III	4.5
RAD 132	Radiographic Image Production	3
General Education: 1 Course		
Fourth Term		
RAD 140	Radiographic Clinic IV	10
General Education: 1 Course		
Fifth Term		
RAD 122	Radiation Protection - Biology	3
RAD 205	Radiographic Positioning IV	3
RAD 210	Radiographic Clinic V	7
General Education: 1 Course		
Sixth Term		
RAD 213	Survey of Advanced Imaging Modalities	3
RAD 230	Radiographic Clinic VII	9
General Education: 1 Course		
Seventh Term		
RAD 206	Survey of Medical Imaging Diseases	3
RAD 216	Radiography Registry Review	2
RAD 220	Radiographic Clinic VI	7
Total Credits		102.5

LESS THAN ONE-YEAR CERTIFICATE

Computed Tomography (p. 2)
Magnetic Resonance Imaging (p. 3)

COMPUTED TOMOGRAPHY LESS THAN ONE-YEAR CERTIFICATE

Minimum 19 credits. Students must meet all certificate requirements.

Course of Study

The coursework listed below is required. The following is an example of a term-by-term breakdown.

First Term		Credits
CTT 101	Cross-Sectional Anatomy-Abdomen & Pelvis	1
CTT 102	Cross-Sectional Anatomy- Head & Spine	1
CTT 111	CT Physics, Equipment and Instrumentation	2

Second Term		
CTT 103	Cross-Sectional Anatomy - Neck & Thorax	1
CTT 104	Cross Sectional Anatomy Review	1
CTT 112	CT Procedures, Protocols and Pathology Correlation	2
Third Term		
CTT 271	CT Clinical Education I	5
Fourth Term		
CTT 113	CT Registry Review	1
CTT 272	CT Clinical II	5
Total Credits		19

MAGNETIC RESONANCE IMAGING LESS THAN ONE-YEAR CERTIFICATE

Minimum 32 credits. Students must meet all certificate requirements.

Course of Study

The coursework listed below is required. The following is an example of a term-by-term breakdown.

First Term		Credits
MRI 101	MRI Physics I - Principles, Equipment & Safety	2
MRI 111	MRI Cross-Sectional Anatomy I	2
MRI 271	MRI Clinical I	6
Second Term		
MRI 102	MRI Physics II - Advanced Principles	2
MRI 112	MRI Cross-Sectional Anatomy II	1
MRI 272	MRI Clinical II	8
Third Term		
MRI 130	MRI Imaging Procedures and Diagnosis	2
MRI 140	MRI Registry Review	1
MRI 273	MRI Clinical III	8
Total Credits		32