Radiation Sciences, Certificate

Requirements

The undergraduate Certificate in Radiation Sciences requires 14–20 s.h. including online didactic coursework and an in-person University of Iowa Health Care practicum. Students must earn a C or higher in all work for the certificate. The certificate offers subprograms in breast imaging, cardiac interventional radiography, computed tomography, magnetic resonance imaging, and vascular interventional radiography.

The certificate is intended for radiologic technologists, nuclear medicine technologists, and radiation therapists interested in becoming eligible for the American Registry of Radiologic Technology (ARRT) board exam in their chosen modality. The magnetic resonance imaging subprogram also offers a pathway for students who have completed an associate's degree but no radiation sciences program.

Acceptance into a practicum is required, but not guaranteed. Certificate students will have the opportunity to gain supervised, hands-on clinical experiences at University of Iowa Health Care locations in Iowa City, Coralville, and/or North Liberty, Iowa. Practicum availability is modality-specific, and preferred days and times may not be offered each semester.

All radiation sciences certificate students complete the coursework listed under "Common Requirements." In addition, students complete the coursework listed for their chosen subprogram.

Common Requirements

The following coursework is required for all radiation sciences certificate students.

Course #	Title	Hours
Both of these:		
RSCT:4100	Sectional Anatomy for Imaging Sciences	3
RSCI:4110	Vascular Anatomy	3

Subprograms

Breast Imaging

The Certificate in Radiation Sciences with the breast imaging subprogram requires 15–20 s.h.

In addition to the coursework listed under "Common Requirements," the breast imaging subprogram requires the following online coursework and in-person practicum.

Course #	Title	Hours
RSBI:4110	Breast Imaging Procedures and Analysis	3
RSBI:4120	Anatomy and Pathology for Breast Imaging	2
RSBI:4220	Quality Control in Breast Imaging	3
RSBI:4308	Breast Imaging Practicum	1-6

Cardiac Interventional Radiography

The Certificate in Radiation Sciences with the cardiac interventional radiography subprogram requires 15–20 s.h.

In addition to the coursework listed under "Common Requirements," the cardiac interventional radiography subprogram requires the following online coursework and in-person practicum.

Course #	Title	Hours
RSCI:4120	CVI Principles	4
RSCI:4160	CVI Cardiac Procedures and Pathology	4
RSCI:4308	Cardiovascular Interventional Practicum	1-6

Computed Tomography

The Certificate in Radiation Sciences with the computed tomography subprogram requires 15–20 s.h.

In addition to the coursework listed under "Common Requirements," the computed tomography subprogram requires the following online coursework and in-person practicum.

Course #	Title	Hours
RSCT:4120	Computed Tomography Procedures I	4
RSCT:4130	Computed Tomography Physical Principles and QC	4
RSCT:4308	Computed Tomography Practicum	1-6

Magnetic Resonance Imaging

The Certificate in Radiation Sciences with the magnetic resonance imaging subprogram requires 14–19 s.h.

In addition to the coursework listed under "Common Requirements," the magnetic resonance imaging subprogram requires the following online coursework and in-person practicum.

Course #	Title	Hours
RSMR:4110	Fundamentals for the MRI Technologist	3
RSMR:4120	MRI Procedures I	4
RSMR:4308	Magnetic Resonance Imaging Practicum	1-6

Vascular Interventional Radiography

The Certificate in Radiation Sciences with the vascular interventional radiography subprogram requires 14–19 s.h.

In addition to the coursework listed under "Common Requirements," the vascular interventional radiography subprogram requires the following online coursework and in-person practicum.

Course #	Title	Hours
RSCI:4120	CVI Principles	4
RSCI:4140	CVI Peripheral Procedures and Pathology	3
or RSCI:4150	CVI Neurology and Nonvascular Procedures and Pathology	
RSCI:4308	Cardiovascular Interventional Practicum	1-6

Practicum Requirements

To pass the practicum and meet the certificate requirements, all clinical competencies in the respective subprogram must be completed. Students need a minimum of 270 clinic/practicum hours (3 s.h.) to complete all required ARRT competencies (90 clinic hours is equal to 1 s.h.), which may take more than one semester to complete. See the American Registry of Radiologic Registered Technologist Credential Options for more information.

Students participating in the radiation sciences practicum must complete the following requirements prior to the start of the practicum to comply with program and University of Iowa health science study policies.

1. Satisfy technical standards expectations.
2. Complete the health science student requirements checklist and required immunizations.
3. Pass a criminal background check. Review the self-disclosure of criminal background. Students may be denied application for ARRT certification if they have committed ethics or criminal violations. Students are encouraged to verify their eligibility with the American Registry of Radiologic Technologists (ARRT).
4. Provide proof of health insurance.

Relevant documents for the practicum requirements are available on the Radiation Sciences website.