University of Iowa Carver College of Medicine
Baccalaureate Degree in Radiation Sciences

**Online RT to BS Degree Completion**

www.medicine.uiowa.edu/radsci
PH: 319-353-8388

**Admission Requirements:**

- Prerequisite Courses:
  - **Rhetoric:** RHET:1030 Accelerated Rhetoric
  - **Natural Science:** *anatomy, one of these*:
    HHP:1100 Human Anatomy
    HHP:1150 Human Anatomy with Lab
    HHP:3105 Anatomy for Human Physiology
    HHP:3115 Anatomy for Human Physiology with Lab

  AND *one of these*:
    BIOL:1140 Human Biology
    CHEM:1070 General Chemistry I or CHEM:1110 Principles of Chemistry I
    HHP:1300 Fundamentals of Human Physiology
    HHP:1350 Fundamentals of Human Physiology with Lab
    HHP:3500 Human Physiology
    HHP:3550 Human Physiology with Lab
    PHYS:1400 Basic Physics or PHYS:1511 College Physics
  - **Psychology:** PSY:1001 Elementary Psychology
  - **Quantitative/Formal Reasoning:** *one of these*:
    MATH:1440 Math for the Biological Sciences
    MATH:1020 Elementary Functions
  - **General Education:** *3sh from 2 of the following areas:*
    Diversity and Inclusion (DI)
    Historical Perspectives (HP)
    International and Global Issues (IGI)
    Literary, Visual, and Performing Arts (LVPA)
    Values and Culture (VC)
  - **Medical Terminology:** CLSA:3750 Medical and Technical Terminology
- 2.5 minimum cumulative college GPA in non-RT or NMT college courses
- Completion of a Radiologic Technology or Nuclear Medicine Technology program
- ARRT radiography, ARRT nuclear medicine, or NMTCB nuclear medicine certification (60sh awarded)
- *All admission requirements must be completed or in progress prior to admission.*
- Apply to the undergraduate College of Medicine Radiation Sciences major.
- International students and students whose first language is not English: satisfaction of all UI Admissions requirements; completion of the English Language Requirements for Admission, the English Proficiency Evaluation, and all proficiency courses required for clearance to take a full academic load

**Admission Notes:**

- *Deadlines: April 1 for summer or fall; November 1 for spring admit.* Apply early; allow processing time.
- Follow Admissions Profile instructions on MyUI; complete mandatory orientation and advising sessions.

**Degree Requirements:**

1) **All courses for one of the following online modality options:**
   – Breast Imaging
   – Cardiovascular Interventional
   – Computed Tomography
   – Magnetic Resonance Imaging
   – Multi-Modality Plan
2) **Multidisciplinary courses (choose 2):**
   - ASP:1800 Aging Matters: Intro to Gerontology
   - ASP:3150 Psychology of Aging
   - CPH:1400 Fund of Public Health, Sp23 – need permission to register and extra fee
   - CSED:4111 Building Leadership & Success at Work
   - CSED:4140 Foundations of Leadership
   - CSED:4197 Citizenship in a Multicultural Society
   - CSED:4194 Interpersonal Effectiveness
   - ECON:1200 Principles of Macroeconomics
   - GHS:3850 Promoting Health Globally
   - HHP:2130 Human Development through the Life Span
   - MGMT:2100 Intro to Management
   - MGMT:3500 Nonprofit Organizational Effectiveness I
   - PSQF:1075 Educational Psychology and Measurement
   - PSQF:3700 Intro to Trauma and Resilience
   - RHET:2135 Rhetoric of Diversity and Inclusion
   - SOC:3510 Medical Sociology
   - SOC:4225 Social Psychology of Leadership
   - STAT:1020 Elementary Stats and Inference
   –
3) **Semester hour, GPA, and Residency Requirements:**
   - Successfully complete a minimum of 120 semester hours
   - Maintain a minimum 2.0 cumulative and UI GPA
   - Complete all modality courses with a C or above
   - *complete a minimum of 30 consecutive sh in the College of Medicine*

## Required Courses

| **Breast Imaging (BI) 22sh** | | **Semester(s) offered** |
|---|---|---|
| RSBI: 3310 | Patient Care for Breast Imaging 3sh | Summer |
| RSBI: 4110 | Breast Imaging Procedures I & Analysis 3sh^ | Fall |
| RSBI: 4120 | Anatomy & Pathology for Breast Imaging 2sh | Fall |
| RSBI: 4130 | Breast Imaging Acquisitions and Principles 2sh | Fall |
| RSBI: 4210 | Breast Imaging Advanced Procedures & Analysis 3sh+ | Spring |
| RSBI: 4220 | Quality Control in Breast Imaging 3sh~ | Spring |
| RSCI: 4110 | Vascular Anatomy 3sh | Summer, Fall, Spring |
| RSCT: 4100 | Sectional Anatomy for Imaging Sciences 3sh | Summer, Fall, Spring |

~Pre or Corequisite: RSBI:4130 ^ Prerequisite: RSBI:3310 + Prerequisite: RSBI:4110

| **Cardio Vascular Interventional (CVI) 23sh** | | |
|---|---|---|
| RSCI: 4110 | Vascular Anatomy 3sh | Summer, Fall, Spring |
| RSCI: 4120 | CVI Principles 4sh~ | Summer |
| RSCI: 4130 | Electrocardiogram & Hemodynamics 3sh | Spring |
| RSCI: 4140 | CVI Peripheral Procedures & Pathology 3sh^ | Fall |
| RSCI: 4150 | CVI Neuro & Nonvascular Procedures & Pathology 3sh^ | Fall |
| RSCI: 4160 | CVI Cardiac Procedures & Pathology 4sh^+ | Spring |
| RSCT: 4100 | Sectional Anatomy for Imaging Sciences 3sh | Summer, Fall, Spring |

~Pre or Corequisite: RSCI:4110 ^ Prerequisite: RSCI:4120 + Corequisite: RSCI:4130

| **Computed Tomography (CT) 21sh** | | |
|---|---|---|
| RSCI: 4110 | Vascular Anatomy 3sh | Summer, Fall, Spring |
| RSCI: 4130 | Electrocardiogram & Hemodynamics 3sh | Spring |
| RSCT: 4100 | Sectional Anatomy for Imaging Sciences 3sh | Summer, Fall, Spring |
| RSCT: 4120 | CT Procedures I 4sh* | Fall |
| RSCT: 4125 | CT Procedures II 4sh^~ | Spring |
| RSCT: 4130 | CT Physical Principles & Quality Control 4sh | Summer, Fall |

* Pre or Corequisite: RSCT:4100 ^ Prerequisite: RSCT:4120 ~Pre or Corequisite: RSCI: 4110

| **Magnetic Resonance Imaging (MRI) 23sh** | | |
|---|---|---|
| RSCT: 4100 | Sectional Anatomy for Imaging Sciences 3sh | Summer, Fall, Spring |
| RSMR: 4110 | Fundamentals for the MRI Technologist 3sh | Summer, Spring |
| RSMR: 4120 | MRI Procedures I 4sh*~ | Fall |
| RSMR: 4130 | MRI Procedures II 4sh^ | Spring |
| RSMR: 4140 | MRI Acquisition & Principles I 3sh~ | Fall |
| RSMR: 4150 | MRI Acquisition & Principles II 3sh+ | Spring |
| RSCI: 4110 | Vascular Anatomy 3sh | Summer, Fall, Spring |

* Prerequisite: RSCT:4100 ~ Prereq: RSMR:4110 ^ Prereq: RSMR:4120 + Prereq: RSMR:4140

| **Multi-Modality Plan (Multi) 21sh minimum** | | |
|---|---|---|
| RSCT: 4100 | Sectional Anatomy for Imaging Sciences 3sh | Summer, Fall, Spring |
| RSCI: 4110 | Vascular Anatomy 3sh | Summer, Fall, Spring |

Additional 15sh of BI, CT, CVI, or MRI coursework

## Course Schedules *(multiple scheduling options available; suggested schedules listed below)*

**BI** *Part Time*

| SUMMER | SH | FALL | SH | SPRING | SH |
|---|---|---|---|---|---|
| **1st Semester** | | **2nd Semester** | | **3rd Semester** | |
| Sectional Anatomy | 3 | BI Procedures I | 3 | BI Adv Procedures | 3 |
| Patient Care for BI | 3 | Anatomy & Path for BI | 2 | Multi 1 | 3 |
| **Total** | **6** | | **5** | | **6** |
| **4th Semester** | | **5th Semester** | | **6th Semester** | |
| Vascular Anatomy | 3 | BI Acquisitions & Princ | 2 | QC in BI | 3 |
| | | Multi 2 | 3 | Elective | 2 |
| **Total** | **3** | | **5** | | **30** |

*Full Time*

| SUMMER | SH | FALL | SH | SPRING | SH |
|---|---|---|---|---|---|
| Sectional Anatomy | 3 | Multi 1 | 3 | BI Adv Procedures | 3 |
| Patient Care for BI | 3 | BI Procedures I | 3 | QC in BI | 3 |
| | | Anatomy & Path for BI | 2 | Multi 2 | 3 |
| | | BI Acquisitions & Princ | 2 | Vascular Anatomy | 3 |
| | | Elective | 2 | | |
| **Total** | **6** | | **12** | | **12** |
| **Total** | | | | | **30** |

**CT** *Part Time*

| FALL | SH | SPRING | SH | SUMMER | SH |
|---|---|---|---|---|---|
| **1st Semester** | | **2nd Semester** | | **3rd Semester** | |
| Sectional Anatomy | 3 | CT Procedures II | 4 | Multi 1 | 3 |
| CT Procedures I | 4 | Vascular Anatomy | 3 | | |
| **Total** | **7** | | **7** | | **3** |
| **4th Semester** | | **5th Semester** | | | |
| CT Principles & QC | 4 | ECG | 3 | | |
| Multi 2 | 3 | Electives | 3 | | |
| **Total** | **7** | | **6** | | **30** |

*Full Time*

| FALL | SH | SPRING | SH | SUMMER | SH |
|---|---|---|---|---|---|
| Vascular Anatomy | 3 | Elective | 3 | Multi 2 | 3 |
| Sectional Anatomy | 3 | CT Procedures II | 4 | | |
| CT Procedures I | 4 | ECG | 3 | | **3** |
| CT Principles & QC | 4 | Multi 1 | 3 | | |
| **Total** | **14** | | **13** | | **30** |

**CVI** *Part Time*

| FALL | SH | SPRING | SH | SUMMER | SH |
|---|---|---|---|---|---|
| **1st Semester** | | **2nd Semester** | | **3rd Semester** | |
| Sectional Anatomy | 3 | Vascular Anatomy | 3 | CVI Principles | 4 |
| Multi 1 | 3 | Multi 2 | 3 | Elective | 1 |
| **Total** | **6** | | **6** | | **5** |
| **4th Semester** | | **5th Semester** | | | |
| Neuro Procedures | 3 | ECG | 3 | | |
| Peripheral Procedures | 3 | Cardiac Procedures | 4 | | |
| **Total** | **6** | | **7** | | **30** |

**CVI** *Full Time*

| SUMMER | SH | FALL | SH | SPRING | SH |
|---|---|---|---|---|---|
| Vascular Anatomy | 3 | Sectional Anatomy | 3 | ECG | 3 |
| CVI Principles | 4 | Neuro Procedures | 3 | Cardiac Procedures | 4 |
| | | Peripheral Procedures | 3 | Multi 2 | 3 |
| | | Multi 1 | 3 | Elective* | 1 |
| **Total** | **7** | | **12** | | **11** |
| **Total** | | | | | **30** |

*Need 2sh to be FT

**MRI** *Part Time*

| SUMMER | SH | FALL | SH | SPRING | SH |
|---|---|---|---|---|---|
| **1st Semester** | | **2nd Semester** | | **3rd Semester** | |
| Sectional Anatomy | 3 | MRI Procedures I | 4 | MRI Procedures II | 4 |
| MRI Fundamentals | 3 | MRI Principles I | 3 | MRI Principles II | 3 |
| **Total** | **6** | | **7** | | **7** |
| **4th Semester** | | **5th Semester** | | | |
| Vascular Anatomy | 3 | Multi 1 | 3 | | |
| Elective | 1 | Multi 2 | 3 | | |
| **Total** | **4** | | **6** | | |
| **Total** | | | | | **30** |

*Full Time*

| SUMMER | SH | FALL | SH | SPRING | SH |
|---|---|---|---|---|---|
| MRI Fundamentals | 3 | Vascular Anatomy | 3 | MRI Procedures II | 3 |
| Sectional Anatomy | 3 | Multi 1 | 3 | MRI Principles II | 3 |
| | | MRI Procedures I | 4 | Elective | 2 |
| | | MRI Principles I | 3 | Multi 2 | 3 |
| **Total** | **6** | | **13** | | **11** |
| **Total** | | | | | **30** |

**MULTI** *Part Time*

| SUMMER | SH | FALL | SH | SPRING | SH |
|---|---|---|---|---|---|
| **1st Semester** | | **2nd Semester** | | **3rd Semester** | |
| Patient Care for BI | 3 | Sectional Anatomy | 3 | ECG | 3 |
| MRI Fundamentals | 3 | CT Principles & QC | 4 | Vascular Anatomy | 3 |
| **Total** | **6** | | **7** | | **6** |
| **4th Semester** | | **5th Semester** | | | |
| CVI Principles | 4 | Multi 2 | 3 | | |
| Multi 1 | 3 | BI Acquisitions & Princ | 2 | | |
| **Total** | **7** | | **5** | | **31** |

*Full Time*

| SUMMER | SH | FALL | SH | SPRING | SH |
|---|---|---|---|---|---|
| MRI Fundamentals | 3 | Vascular Anatomy | 3 | Multi 1 | 3 |
| Sectional Anatomy | 3 | CT Principles & QC | 4 | ECG | 3 |
| | | Anatomy & Path for BI | 2 | Elective | 3 |
| | | MRI Procedures I | 4 | Multi 2 | 3 |
| **Total** | **6** | | **13** | | **12** |
| **Total** | | | | | **31** |

*Students select Radiation Sciences courses of interest to complete the multi-modality option.*