

University of Iowa Carver College of Medicine
Baccalaureate Degree in Radiation Sciences
www.medicine.uiowa.edu/radsci PH: 319-353-8388

Admission Requirements: Radiologic Technology

- Prerequisite Courses:
 - **Rhetoric:** RHET:1030 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
 - ACB:3110 Principles of Human Anatomy
 - AND: *physiology, one of these:*
 - HHP:1300 Fundamentals of Human Physiology
 - HHP:1350 Fundamentals of Human Physiology with Lab
 - HHP:3500 Human Physiology
 - HHP:3550 Human Physiology with Lab
 - **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
- Prerequisites courses must be completed by June 1
- 2.5 minimum cumulative college GPA is required.
- Two years of high school world language is a prerequisite to the professional program.
- International students and students whose first language is not English: must satisfy all UI Admissions requirements, complete the English Language Requirements for Admission, and have clearance to take a full academic load.

Recommended:

- Job shadowing, patient care experience, and research of professional field(s)
- RSP:1100 Introduction to Radiation Sciences
- PHYS:1400 Basic Physics or PHYS:1511 College Physics I
- CS:1020 Principles of Computing or BAIS:1500 Business Computing Essentials
- STAT:1020, 3510, or 4143 Statistics

Notes:

- Separate application for competitive selection to the professional track due *by January 15*
- Admission to a Radiation Sciences program is not guaranteed.
- Application and selection process is required due to limited clinical openings.
- Personal interview on campus for invited applicants
- Transfer students: Apply to the College of Liberal Arts & Sciences, Radiation Sciences Interest *by mid December*. Also see the Transfer Credits link on the Student Resources tab.

Degree Requirements:

1) One of the following professional Radiation Sciences tracks:

- Radiologic Technology and Computed Tomography (3 year track) – 6 students
- Radiologic Technology and Magnetic Resonance Imaging (3 year track) – 6 students
- Radiologic Technology and Cardiovascular Interventional (3 year track) – 2 students
- Radiologic Technology and Breast Imaging (3 year track) – 2 students

2) Semester hour and GPA Requirements:

- Successfully complete a minimum of 120 semester hours of credit
- Maintain a minimum 2.0 cumulative and UI GPA
- Complete all track courses with a C or above

| FIRST YEAR - FRESHMAN | | | |
|---|--------------|--|--------------|
| 1st Semester Fall | sh | 2nd Semester Spring | sh |
| RHET:1030 Rhetoric | 4 | Human Physiology | 3-5 |
| BIOL:1140 Human Biology* OR Human Anatomy | 3-5 | Human Anatomy (if not completed in fall) | 3-5 |
| MATH:1440 Math for Biological Sciences | 4 | PSY:1001 Elementary Psych | 3 |
| DI, IGI, HP, LVPA, or VC | 3 | CLSA:3750 Medical Terminology | 2 |
| RSP:1100 Introduction to Radiation Sciences** | 1 | DI, IGI, HP, LVPA, or VC | 3 |
| Subtotal | 15-17 | Subtotal | 14-18 |
| | | Total Freshman | 29-35 |

* Most students will need to complete Human Biology prior to Anatomy (based on academic strength)

** Strongly recommended, not required

^ Physics for DMS program may be completed in the spring or summer semester. Summer is recommended if both Anatomy and Physiology are taken in the spring. Students interested in Radiation Therapy will take physics in their sophomore year.

- **Students are advised for success, based on academic strength, not necessarily for a 4 year plan.**
- **Prerequisites for the program may take more than one year to complete.**

Radiologic Technology

All Tracks:

| SECOND YEAR - SOPHOMORE | | | |
|--|-----------|--|-----------|
| 1st Semester Fall | sh | 2nd Semester Spring | sh |
| RSRT:2110 Radiographic Procedures & Analysis | 4 | RSP:3210 Medical Ethics & Law | 2 |
| RSRT:2120 RT Clinical Internship I | 1 | RSRT:2225 RT Clinical Internship II | 4 |
| RSP:2110 Pathology for Radiation Sciences | 2 | RSRT:2230 Radiographic Procedures II | 3 |
| RSP:2120 Patient Care for Radiation Sciences | 3 | RSRT:2240 Radiographic Analysis II | 3 |
| RSP:3130 Radiation Safety & Radiobiology | 2 | RSRT:2250 Radiographic Fluoroscopic Procedures | 2 |
| Subtotal | 12 | Subtotal | 14 |
| 3rd Semester Summer | | | |
| RSRT:2325 RT Clinical Internship III | 3 | | |
| RSC:4100 Sect Anatomy for Imag Sci (online) | 3 | | |
| Subtotal | 6 | Total Sophomore | 32 |

Computed Tomography (CT):

| THIRD YEAR – JUNIOR CT | | | |
|--|-----------|---|-----------|
| 1st Semester Fall | sh | 2nd Semester Spring | sh |
| RSRT:3115 Radiographic Proc & Analysis III | 4 | RSRT:3220 Emotional Intelligence for HC Profsnl | 2 |
| RSRT:3125 RT Clinical Internship IV | 4 | RSRT:3225 RT Clinical Internship V | 3 |
| RSRT:3140 Radiographic & Digital Imaging | 5 | RSRT:3230 Radiographic Physics & Imaging | 4 |
| | | RSCI:4130 ECG & Hemodynamics (online) | 3 |
| Subtotal | 13 | Subtotal | 12 |
| 3rd Semester Summer | | | |
| RSRT:3325 RT Clinical Internship VI | 2 | | |
| RSCT:4130 CT Physical Principles & QC (online) | 4 | | |
| RSCT:4105 CT Clinical Internship I | 2 | | |
| Subtotal | 8 | Total Junior | 33 |
| FOURTH YEAR – SENIOR CT | | | |
| 1st Semester Fall | sh | 2nd Semester Spring | sh |
| RSRT:4125 RT Clinical Internship VII | 1 | RSRT:4225 RT Clinical Internship VIII | 1 |
| RSCT:4115 CT Clinical Internship II | 4 | RSCT:4110 CT / MRI Pathology (online) | 3 |
| RSCT:4120 CT Procedures I (online) | 3 | RSCT:4125 CT Procedures II (online) | 3 |
| RSCI:4110 Vascular Anatomy (online) | 3 | RSCT:4215 CT Clinical Internship III | 4 |
| RSP:4110 Research Methodologies for Rad Sci | 3 | RSP:3220 Rad Sci QM & Healthcare Admin | 2 |
| Subtotal | 14 | Subtotal | 13 |
| | | Total Senior | 27 |
| | | TOTAL RT/CT | 92 |

Magnetic Resonance Imaging (MRI):

| THIRD YEAR – JUNIOR MRI | | | |
|---|-----------|---|-----------|
| 1st Semester Fall | sh | 2nd Semester Spring | sh |
| RSRT:3115 Radiographic Proc & Analysis III | 4 | RSRT:3220 Emotional Intelligence for HC Profsnl | 2 |
| RSRT:3125 RT Clinical Internship IV | 4 | RSRT:3225 RT Clinical Internship V | 3 |
| RSRT:3140 Radiographic & Digital Imaging | 5 | RSRT:3230 Rad Physics & Imaging Equip | 4 |
| | | RSCT:4110 CT / MRI Pathology (online) | 3 |
| | | RSMR:4110 Fund for the MRI Tech (online) | 3 |
| Subtotal | 13 | Subtotal | 15 |
| 3rd Semester Summer | | | |
| RSRT:3325 RT Clinical Internship VI | 2 | | |
| RSCI:4110 Vascular Anatomy (online) | 3 | | |
| RSMR:4160 MRI Clinical Internship I | 2 | | |
| Subtotal | 7 | Total Junior | 35 |
| FOURTH YEAR – SENIOR MRI | | | |
| 1st Semester Fall | sh | 2nd Semester Spring | sh |
| RSRT:4125 RT Clinical Internship VII | 1 | RSRT:4225 RT Clinical Internship VIII | 1 |
| RSP:4110 Research Methodologies for Rad Sci | 3 | RSP:3220 Rad Sci QM & Healthcare Admin | 2 |
| RSMR:4120 MRI Procedures I (online) | 4 | RSMR:4130 MRI Procedures II (online) | 3 |
| RSMR:4140 MRI Acquisition & Principles I | 3 | RSMR:4150 MRI Acquisition & Principles II | 3 |
| RSMR:4170 MRI Clinical Internship II | 4 | RSMR:4175 MRI Clinical Internship III | 4 |
| Subtotal | 15 | Subtotal | 13 |
| | | Total Senior | 28 |
| | | TOTAL RT/MRI | 95 |

Cardiovascular Interventional (CVI):

| THIRD YEAR – JUNIOR CVI | | | |
|--|-----------|---|-----------|
| 1st Semester Fall | sh | 2nd Semester Spring | sh |
| RSRT:3115 Radiographic Proc & Analysis III | 4 | RSRT:3220 Emotional Intelligence for HC Profsnl | 2 |
| RSRT:3125 RT Clinical Internship IV | 4 | RSRT:3230 Radiographic Physics & Imaging | 4 |
| RSRT:3140 Radiographic & Digital Imaging | 5 | RSRT:3225 RT Clinical Internship V | 3 |
| | | RSCI:4110 Vascular Anatomy (online) | 3 |
| Subtotal | 13 | Subtotal | 12 |
| 3rd Semester Summer | | | |
| RSRT:3325 RT Clinical Internship VI | 2 | | |
| RSCI:4120 CVI Principles (online) | 4 | | |
| RSCI:4190 CVI Clinical Internship | 2 | | |
| Subtotal | 8 | Total Junior | 33 |
| FOURTH YEAR – SENIOR CVI | | | |
| 1st Semester Fall | sh | 2nd Semester Spring | sh |
| RSRT:4125 RT Clinical Internship VII | 1 | RSRT:4225 RT Clinical Internship VIII | 1 |
| RSP:4110 Research Methodologies for Rad Sci | 3 | RSCI:4130 ECG & Hemodynamics (online) | 3 |
| RSCI:4140 CVI Peripheral Proc & Path (online) | 3 | RSCI:4160 CVI Cardiac Proc & Path (online) | 4 |
| RSCI:4150 Neuro & NonVasc Proc & Path (online) | 3 | RSCI:4170 CI Clinical Internship | 4 |
| RSCI:4180 VI Clinical Internship | 4 | RSP:3220 Rad Sci QM & Healthcare Admin | 2 |
| Subtotal | 14 | Subtotal | 14 |
| | | Total Senior | 28 |
| | | TOTAL RT/CVI | 93 |

Breast Imaging (BI):

| THIRD YEAR – JUNIOR BI | | | |
|---|-----------|---|-----------|
| 1st Semester Fall | sh | 2nd Semester Spring | sh |
| RSRT:3115 Radiographic Proc & Analysis III | 4 | RSRT:3220 Emotional Intelligence for HC Profsnl | 2 |
| RSRT:3125 RT Clinical Internship IV | 4 | RSRT:3230 Radiographic Physics & Imaging | 4 |
| RSRT:3140 Radiographic & Digital Imaging | 5 | RSRT:3225 RT Clinical Internship V | 3 |
| | | RSCI:4110 Vascular Anatomy (online) | 3 |
| Subtotal | 13 | Subtotal | 12 |
| 3rd Semester Summer | | | |
| RSRT:3325 RT Clinical Internship VI | 2 | | |
| RSBI:3310 Pt Care for Breast Imaging (online) | 3 | | |
| RSBI:3315 BI Clinical Internship I | 2 | | |
| Subtotal | 7 | Total Junior | 32 |
| FOURTH YEAR – SENIOR BI | | | |
| 1st Semester Fall | sh | 2nd Semester Spring | sh |
| RSRT:4125 RT Clinical Internship VII | 1 | RSRT:4225 RT Clinical Internship VIII | 1 |
| RSP:4110 Research Methodologies for Rad Sci | 3 | RSP:3220 Rad Sci QM & Healthcare Admin | 2 |
| RSBI:4110 BI Procedures I & Analysis (online) | 3 | RSBI:4210 BI Advanced Proc & Analysis (online) | 3 |
| RSBI:4115 BI Clinical Internship II | 4 | RSBI:4215 BI Clinical Internship III | 4 |
| RSBI:4120 Anatomy & Pathology for BI (online) | 2 | RSBI:4220 Quality Control in BI (online) | 3 |
| RSBI:4130 BI Acquisitions & Principles (online) | 2 | | |
| Subtotal | 15 | Subtotal | 13 |
| | | Total Senior | 28 |
| | | TOTAL RT/BI | 92 |