

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

### Admission Requirements: Radiation Therapy

- 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
  - AND: *physics, one of these:*
    - PHYS:1400 Basic Physics
    - PHYS:1511 College Physics I
  - 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
  - **A total of 60sh of coursework**
- 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
- CHEM:1070 General Chemistry I or CHEM:1110 Principles of Chemistry I
- CHEM:1080 General Chemistry II or CHEM:1120 Principles of Chemistry II
- PHYS:1512 College Physics II
- CS:1020 Principles of Computing or MSCI: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) Complete the following professional Radiation Sciences track:

- Radiation Therapy (2 year track) – 7 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

<b>FIRST YEAR - FRESHMAN</b>			
<b>1<sup>st</sup> Semester Fall</b>	<b>sh</b>	<b>2<sup>nd</sup> Semester Spring</b>	<b>sh</b>
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
<b>Subtotal</b>	<b>15-17</b>	<b>Subtotal</b>	<b>14-18</b>
<b>Total Freshman</b>			<b>29-35</b>

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

\*\* Strongly recommended, not required

^ Students may take physics in their sophomore year.

<b>SECOND YEAR - SOPHOMORE</b>			
<b>1<sup>st</sup> Semester Fall</b>	<b>sh</b>	<b>2<sup>nd</sup> Semester Spring</b>	<b>sh</b>
CHEM:1070 General Chemistry <u>or</u>	3	CHEM:1080 General Chemistry II <u>or</u>	3
CHEM: 1110 Principles of Chemistry*	4	CHEM:1120 Principles of Chemistry II*	4
PHYS:1400 Basic Physics <u>or</u>	3-4	PHYS:1512 College Physics II*	4
PHYS:1511 College Physics I			
CS:1020 Principles of Computing* <u>or</u>	3	STAT:1020, 3510, or 4143 Statistics*	4
MSCI:1500 Business Computing Essentials*	2		
Electives	4-7	Electives	3-4
<b>Subtotal</b>	<b>15</b>	<b>Subtotal</b>	<b>15</b>
<b>Total Sophomore</b>			<b>30</b>
<b>Prerequisite Total:</b>			<b>60 sh</b>

\*Recommended, not required

## Radiation Therapy

Students select one area of interest prior to the junior summer semester: MRI, CT, or CT/MRI Combo.

<b>THIRD YEAR - JUNIOR</b>			
<b>1<sup>st</sup> Semester Fall</b>	<b>sh</b>	<b>2<sup>nd</sup> Semester Spring</b>	<b>sh</b>
RSP:2120 Patient Care for Radiation Sciences	3	RSP:3210 Medical Ethics & Law	2
RSP:3130 Radiation Safety & Radiobiology	2	RSTH:3205 Principles of Radiation Therapy I	3
RSP:2110 Pathology for Radiation Sciences	2	RSTH:3215 Medical Physics II	2
RSTH:3110 Medical Physics I	2	RSTH:3225 Radiation Therapy Clinical Internship II	3
RSTH:3100 Introduction to Radiation Therapy	3	RSCT:4100 Sect Anatomy for Imaging Sci (online)	3
RSTH:3120 Radiation Therapy Clinical Internship I	3		
<b>Subtotal</b>	<b>15</b>	<b>Subtotal</b>	<b>13</b>
<b>3rd Semester Summer</b>			
RSTH:3325 Radiation Therapy Clinical Internship III	4		
<b>MRI or CT/MRI Combo:</b>			
RSMR: 4110 Fundamentals MRI Tech (online)	3		
<b>Subtotal</b>	<b>4-7</b>	<b>Total Junior 32-35</b>	

<b>FOURTH YEAR - SENIOR</b>			
<b>1<sup>st</sup> Semester Fall</b>	<b>sh</b>	<b>2<sup>nd</sup> Semester Spring</b>	<b>sh</b>
RSTH:4105 Principles of Radiation Therapy II	2	RSTH:4230 Radiation Therapy Capstone Seminar	3
RSTH:4125 Radiation Therapy Clinical Intern IV	4	RSTH:4225 Radiation Therapy Clinical Internship V	5
RSP:4110 Research Methodologies for Rad Sci	3	RSCT:4110 CT/MR Pathology (online)	3
<b>CT:</b>		RSP:3220 Rad Sci QM & Healthcare Admin (online)	2
RSCT:4120 CT Procedures I (online)	3		
RSCT:4130 CT Physical Principles & QC (online)	4		
<b>MRI:</b>			
RSMR:4140 MRI Acquisition & Principles I	3		
<b>CT/MRI Combo:</b>			
RSCT:4130 CT Physical Principles & QC (online)	4		
<b>Subtotal</b>	<b>12-16</b>	<b>Subtotal</b>	<b>13</b>
		<b>Total Senior</b>	<b>25-29</b>
		<b>TOTAL THERAPY</b>	<b>60-61sh</b>

Elective CT and MRI courses:

RSCI:4110 Vascular Anatomy (3sh online) Su/Fa/Spr  
RSCI:4130 ECG & Hemodynamics (3sh online) Spr  
RSMR:4120 MRI Procedures I (4sh online) Fa  
RSMR:4130 MRI Procedures II (4sh online) Spr  
RSMR:4150 MRI Acquisition & Princ. II (3sh online) Spr  
RSCT:4125 CT Procedures II (3sh online) Sp