CLINICAL RADIATION SCIENCES, BACHELOR OF SCIENCE (B.S.) WITH A CONCENTRATION IN RADIATION THERAPY (DEGREE COMPLETION)

Full- or part-time opportunities to complete a baccalaureate degree are offered for technologists or therapists certified by the American Registry of Radiologic Technologists and/or the Nuclear Medicine Technology Certification Board. In addition to general education and professional course work, the student selects electives from a wide variety of courses, allowing the design of a program that best meets the goals and interests of the individual.

Student learning outcomes

Upon completing this program, students will know and know how to do the following:

- Demonstrate effective verbal communication
- Demonstrate effective written communication
- Demonstrate the ability to problem solve
- Critically analyze published research in the radiation sciences
- Broaden knowledge and awareness of service opportunities in the imaging sciences

Special requirements

Prerequisites

ARRT Certification (or eligibility) in radiation therapy

Must be ARRT certified within two semesters of enrollment.

English proficiency

All non-native applicants must meet VCU’s minimum TOEFL score requirements prior to admission.

Enrolled students must earn a minimum grade of C in CLRS 430.

Degree requirements for Clinical Radiation Sciences, Bachelor of Science (B.S.) with a concentration in radiation therapy (degree completion)

Course Title Hours
CLRS 206 Cross-sectional Anatomy 2
CLRS 398 Introduction to Research 1
CLRS 498 Senior Project 2

• Additional major requirements

ALRT 430 Overview of Research in the Health Professions 3
CLRS 408 Introduction to Computed Tomography (CT) 2
CLRS 412 Radiation Therapy Treatment Planning 3
CLRS 430 Radiobiology 2

Ancillary requirements

ARRT radiography certification 50
HCMG 300 Health Care Organization and Services 3
STAT 210 Basic Practice of Statistics 3
Electives (300 level or higher) 30

Open electives

Select any course. 16

Total Hours 120

Some general education categories will be met with admission requirements. Consult with an adviser to determine remaining categories.

The minimum number of credit hours required for this degree is 120.

What follows is a sample plan that meets the prescribed requirements within a four-year course of study at VCU. Please contact your adviser before beginning course work toward a degree.

Sample outline (full-time option)

Credits toward admission for ARRT radiation therapy certification: 50

Year one

Fall semester Hours
ALHP 430 Overview of Research in the Health Professions 3
HCMG 300 Health Care Organization and Services 3
STAT 210 Basic Practice of Statistics 3
UNIV 200 Advanced Focused Inquiry: Literacies, Research and Communication (satisfies general education UNIV foundations) 3
Natural/physical science elective 3
Social science elective 3

Term Hours: 18

Spring semester

CLRS 206 Cross-sectional Anatomy 2
CLRS 398 Introduction to Research 1
Humanities elective 3
Open electives 7

Term Hours: 13

Summer semester

Electives (300-level +) 6

Term Hours: 6

Year two

Fall semester
Clinical Radiation Sciences, Bachelor of Science (B.S.) with a concentration in radiation therapy (degree completion)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLRS 408</td>
<td>Introduction to Computed Tomography (CT)</td>
<td>2</td>
</tr>
<tr>
<td>CLRS 498</td>
<td>Senior Project</td>
<td>2</td>
</tr>
<tr>
<td>Electives (300-level+)</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td><strong>Term Hours:</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td><strong>Spring semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLRS 412</td>
<td>Radiation Therapy Treatment Planning</td>
<td>3</td>
</tr>
<tr>
<td>CLRS 430</td>
<td>Radiobiology</td>
<td>2</td>
</tr>
<tr>
<td>Electives (300-level+)</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td><strong>Term Hours:</strong></td>
<td></td>
<td><strong>17</strong></td>
</tr>
<tr>
<td><strong>Total Hours:</strong></td>
<td></td>
<td><strong>70</strong></td>
</tr>
</tbody>
</table>

The minimum number of credit hours required for this degree is 120.

**Sample outline (part-time option)**

Credits toward admission for ARRT radiation therapy certification: 50

**Year one**

**Fall semester**

- HCMG 300 Health Care Organization and Services 3
- UNIV 200 Advanced Focused Inquiry: Literacies, Research and Communication (satisfies general education UNIV foundations) 3
- Natural/physical science elective 3

**Term Hours:** 9

**Spring semester**

- STAT 210 Basic Practice of Statistics 3
- Social science elective 3

**Term Hours:** 6

**Summer semester**

- Open elective 3

**Term Hours:** 3

**Year two**

**Fall semester**

- ALHP 430 Overview of Research in the Health Professions 3
- Humanities elective 3
- Open elective 2

**Term Hours:** 8

**Spring semester**

- CLRS 398 Introduction to Research 1
- CLRS 412 Radiation Therapy Treatment Planning 3
- Open elective 2

**Term Hours:** 6

**Summer semester**

- Electives (300-level +) 3

**Term Hours:** 3

**Year three**

**Fall semester**

- CLRS 206 Cross-sectional Anatomy 2
- CLRS 498 Senior Project 2
- Electives (300-level +) 3

**Term Hours:** 7

**Spring semester**

- CLRS 430 Radiobiology 2
- Electives (300-level +) 6

**Term Hours:** 8

**Summer semester**

- Electives (300-level +) 6

**Term Hours:** 6

**Year four**

**Fall semester**

- CLRS 408 Introduction to Computed Tomography (CT) 2
- Electives (300-level +) 6

**Term Hours:** 8

**Spring semester**

- Electives (300-level +) 6

**Term Hours:** 6

**Total Hours:** 70

The minimum number of credit hours required for this degree is 120.