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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLRS 206</td>
<td>Cross-sectional Anatomy</td>
<td>2</td>
</tr>
<tr>
<td>CLRS 398</td>
<td>Introduction to Research</td>
<td>1</td>
</tr>
<tr>
<td>CLRS 498</td>
<td>Senior Project</td>
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- Additional major requirements

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<tr>
<td>ALHP 430</td>
<td>Overview of Research in the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>CLRS 408</td>
<td>Introduction to Computed Tomography (CT)</td>
<td>2</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>
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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

<table>
<thead>
<tr>
<th>Year one</th>
<th>Fall semester</th>
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</tr>
<tr>
<td>UNIV 200</td>
<td>Advanced Focused Inquiry: Literacies, Research and Communication (satisfies general education UNIV foundations)</td>
<td>3</td>
</tr>
<tr>
<td>Natural/physical science elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social science elective</td>
<td>3</td>
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</tr>
</tbody>
</table>

Term Hours: | 18

Spring semester

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<tr>
<td>Open electives</td>
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Term Hours: | 13

<table>
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<tr>
<th>Year two</th>
<th>Fall semester</th>
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<tbody>
<tr>
<td>Electives (300-level +)</td>
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Term Hours: | 6
Clinical Radiation Sciences, Bachelor of Science (B.S.) with a concentration in radiation therapy (degree completion)

CLRS 408  Introduction to Computed Tomography (CT)  2
CLRS 498  Senior Project  2
Electives (300-level +)  12

Term Hours:  16

Spring semester
CLRS 412  Radiation Therapy Treatment Planning  3
CLRS 430  Radiobiology  2
Electives (300-level +)  12

Term Hours:  17

Total Hours:  70

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 408  Introduction to Computed Tomography (CT)  2
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.