

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 therapy¹

¹

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
General education (https://bulletin.vcu.edu/undergraduate/undergraduate-study/general-education-curriculum/)		
Select 30 credits of general education courses in consultation with an adviser. ¹		30
Major requirements		
• Major core requirements		

CLRS 206	Cross-sectional Anatomy	2
CLRS 398	Introduction to Research	1
CLRS 498	Senior Project	2
• Additional major requirements		
ALHP 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

¹

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

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		Hours
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		Hours
STAT 210	Basic Practice of Statistics	3
Social science elective		3
Term Hours:		6

Summer semester		Hours
Open elective		3
Term Hours:		3

Year two

Fall semester		Hours
ALHP 430	Overview of Research in the Health Professions	3
Humanities elective		3
Open elective		2
Term Hours:		8

Spring semester		Hours
CLRS 398	Introduction to Research	1
CLRS 412	Radiation Therapy Treatment Planning	3
Open elective		2
Term Hours:		6

Summer semester		Hours
Electives (300-level +)		3
Term Hours:		3

Year three

Fall semester		Hours
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		Hours
Electives (300-level +)		6
Term Hours:		6

Year four		Hours
Fall semester		Hours
CLRS 408	Introduction to Computed Tomography (CT)	2
Electives (300-level +)		6
Term Hours:		8

Spring semester		Hours
Electives (300-level +)		6
Term Hours:		6
Total Hours:		70

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