

CLINICAL RADIATION SCIENCES, BACHELOR OF SCIENCE (B.S.) WITH A CONCENTRATION IN NUCLEAR MEDICINE TECHNOLOGY (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, Nuclear Medicine Technology Certification Board and/or American Registry of Diagnostic Medical Sonography. 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

Program core learning outcomes

- Demonstrate proficiency in performing imaging/therapy procedures
- Demonstrate proper patient care skills
- Practice appropriate methods of patient safety (to include radiation safety as appropriate)
- Demonstrate effective verbal and written communication
- Demonstrate the ability to critically think and problem solve
- Demonstrate professional and ethical behavior

Nuclear medicine technology concentration-specific outcome

- Demonstrate critical-thinking skills in developing a research project

Special requirements

Prerequisites

NMTCB/ARRT Certification (or eligibility) in nuclear medicine¹

1

Must be NMTCB/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 nuclear medicine technology (degree completion)

Course	Title	Hours
General education (http://bulletin.vcu.edu/undergraduate/undergraduate-study/general-education-curriculum/)		

Select 30 credits of general education courses in conjunction 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 407	Introduction to PET/CT	2
CLRS 408	Introduction to Computed Tomography (CT)	2
CLRS 430	Radiobiology	2
Ancillary requirements		
NMTCB/ARRT nuclear medicine certification		50
HCMG 300	Health Care Organization and Services	3
STAT 210	Basic Practice of Statistics	3
Electives (300 level or higher)		34
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 NMTCB/ARRT nuclear medicine 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
Natural/physical science elective	3
Social science elective	3
Term Hours:	15

Spring semester

CLRS 206 Cross-sectional Anatomy	2
CLRS 398 Introduction to Research	1
CLRS 430 Radiobiology	2
Electives	7
Humanities elective	3
Term Hours:	15

Summer semester

Electives (300-level +)	10
Term Hours:	10
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 407 Introduction to PET/CT	2
Electives (300-level +)	12
Term Hours:	14
Total Hours:	70

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

Sample outline (part-time option)

Credits toward admission for NMTCB/ARRT nuclear medicine certification: 50

Year one	
Fall semester	
HCMG 300 Health Care Organization and Services	3
Natural/physical sciences elective	3
Term Hours:	6
Spring semester	
CLRS 206 Cross-sectional Anatomy	2
STAT 210 Basic Practice of Statistics	3
Social science elective	3
Term Hours:	8
Summer semester	
Elective	3
Term Hours:	3
Year two	
Fall semester	
ALHP 430 Overview of Research in the Health Professions	3
Elective	2
Humanities elective	3
Term Hours:	8
Spring semester	
CLRS 398 Introduction to Research	1
CLRS 430 Radiobiology	2
Elective	2
Term Hours:	5
Summer semester	
Electives (300-level +)	4
Term Hours:	4
Year three	
Fall semester	
CLRS 408 Introduction to Computed Tomography (CT)	2
CLRS 498 Senior Project	2

Electives (300-level +)	6
Term Hours:	10
Spring semester	
CLRS 407 Introduction to PET/CT	2
Electives (300-level +)	6
Term Hours:	8
Summer semester	
Electives (300-level +)	6
Term Hours:	6
Year four	
Fall semester	
Electives (300-level +)	6
Term Hours:	6
Spring semester	
Electives (300-level +)	6
Term Hours:	6
Total Hours:	70

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