



# VCU College of Health Professions

## Radiation Sciences

Thank you for your interest in Diagnostic Medical Sonography offered by the VCU Department of Radiation Sciences. The Department faculty and staff are excited to offer this fourth concentration of medical imaging/therapeutics to its nationally recognized radiography, nuclear medicine technology and radiation therapy educational tracks.

Diagnostic medical sonography is a full-time concentration offered in two formats:

- **Entry level:** after completing program prerequisites, students complete 3 years of classroom, laboratory and clinical education courses. Graduates of the program will earn a Bachelor of Science degree and will be eligible to take the national registry examinations. This option is for students who have no prior health care experience or national certification in a radiologic technology discipline by any of the following bodies: ARRT or NMTCB.
- **Second modality:** offered for radiologic technologists already registered by the ARRT or NMTCB, students spend 2 years in classroom, laboratory and clinical courses. Students graduate with a Bachelor of Sciences degree and will be eligible for national registry examinations.

Why VCU's Sonography?

- Our program is the only baccalaureate degree program in the Commonwealth of Virginia.
- The award winning department faculty are experienced clinicians, educators and researchers. We don't just teach the professional knowledge—we help create it!
- The Department will be housed in the new VCU College of Health Professions building on the medical campus of VCU. Sonography students will enjoy dedicated classroom and laboratory space including state of the art technology.
- The College of Health Professions is widely considered to be one of the top health professions schools in the nation.

To learn more about the VCU Department of Radiation Sciences, its educational offerings, faculty, admissions requirements, and the application process please visit: <http://radsci.chp.vcu.edu>

Sincerely,

Jeff Legg, PhD, RT(R)(CT)(QM)  
Associate Professor and Chair

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# **BS-CRS-DM: CLINICAL RADIATION SCIENCES, BACHELOR OF SCIENCE (B.S.) WITH A CONCENTRATION IN DIAGNOSTIC MEDICAL SONOGRAPHY**

## **Learning outcomes**

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

- Attain clinical competence in entry-level sonographic procedures
- Communicate effectively with patients, staff and physicians in the radiology department
- Demonstrate effective written communication
- Demonstrate critical-thinking skills during their sonography clinical experience
- Demonstrate critical-thinking skills in developing a research project
- Demonstrate professionalism during their sonography clinical experience

## **Degree requirements**

### **Entry-level program prerequisites**

To be eligible for admission into any of the entry-level concentrations students must have completed the following prerequisites:

<b>Course</b>	<b>Title</b>	<b>Hours</b>
BIOL 205	Basic Human Anatomy	4
MATH 141	Algebra with Applications	3
PHIS 206 & PHIZ 206	Human Physiology and Human Physiology Laboratory	4
PHYS 101 & PHYZ 101	Foundations of Physics and Foundations of Physics Laboratory	4
PSYC 101 Play course video for Introduction to Psychology	Introduction to Psychology	4
UNIV 111 Play course video for Focused Inquiry I	Focused Inquiry I	3
UNIV 112 Play course video for Focused Inquiry II	Focused Inquiry II	3
Humanities/fine arts elective <sup>1</sup>		3
<b>Total Hours</b>		<b>28</b>

<sup>1</sup>VCU students: Select a course from the approved University Core humanities/fine arts list, including history, religion, literature, philosophy, foreign languages, speech.

## 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 the following CLRS courses:

Course	Title	Hours
CLRS 208	Foundations of Patient Care	4
CLRS 301	Sonography Physics and Instrumentation I	3
CLRS 302	Sonography Physics and Instrumentation II	3
CLRS 311	Abdominal Sonography	4
CLRS 329	Obstetric and Gynecologic Sonography	4
CLRS 393	Clinical Education I	2
CLRS 394	Clinical Education II	2
CLRS 395	Clinical Education III	3
CLRS 404	Ultrasound Pathology and Preliminary Writing	2
CLRS 493	Clinical Education IV	3
CLRS 494	Clinical Education V	3

## Degree requirements for Clinical Radiation Sciences, Bachelor of Science (B.S.) with a concentration in diagnostic medical sonography ENTRY LEVEL PROGRAM

### Admission requirements for program

Course	Title	Hours
	Pre-radiation sciences advising	27-32

### Plan of study

#### Admission requirements for program 27-32 credits

### Sophomore

		Hours
<b>Fall</b>		
<b>semester</b>		
CLRS 203	Pathophysiology I	3
CLRS 205	Exploring Radiologic Sciences	1
CLRS 208	Foundations of Patient Care	4
HPEX 250	Medical Terminology	1
STAT 210	Basic Practice of Statistics	3
Elective		3
	Term Hours:	15

### Spring semester

CLRS 204	Pathophysiology I and II	3
CLRS 206	Cross-sectional Anatomy	2
UNIV 200	Inquiry and the Craft of Argument	3
Electives		6
	Term Hours:	14

**Summer semester**

CLRS 300	Introduction to Sonography	2
	Term Hours:	2

**Junior year****Fall semester**

CLRS 301	Sonography Physics and Instrumentation I	3
CLRS 311	Abdominal Sonography	4
CLRS 390	Research Methods in the Radiologic Sciences	2
CLRS 393	Clinical Education I	2
Elective		3
	Term Hours:	14

**Spring semester**

CLRS 302	Sonography Physics and Instrumentation II	3
CLRS 329	Obstetric and Gynecologic Sonography	4
CLRS 394	Clinical Education II	2
CLRS 398	Introduction to Research	1
Elective		3
	Term Hours:	13

**Summer semester**

CLRS 325	Sonography Professional Seminar	3
CLRS 395	Clinical Education III	3
	Term Hours:	6

**Senior year****Fall semester**

CLRS 401	Pediatric Sonography	2
CLRS 404	Ultrasound Pathology and Preliminary Writing	2
CLRS 493	Clinical Education IV	3
CLRS 498	Senior Project	2
HCMG 300	Health Care Organization and Services	3
Elective		3
	Term Hours:	15

**Spring semester**

CLRS 488	Senior Seminar	3
CLRS 494	Clinical Education V	3
Electives		8
	Term Hours:	14

Total Hours: 93

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

Insert 2<sup>nd</sup> modality 1-page curriculum here