

University of Iowa Carver College of Medicine
Baccalaureate Degree in Radiation Sciences
www.medicine.uiowa.edu/radsci PH: 319-353-8388

Admission Requirements: Diagnostic Medical Sonography (DMS)

- Prerequisite Courses:
 - **Rhetoric:** RHET:1030 Rhetoric
 - **Natural Science:** *anatomy, one of these:*
 - HHP:1100 Human Anatomy
 - HHP:1150 Human Anatomy with Lab
 - HHP:3105 Anatomy for Human Physiology
 - HHP:3115 Anatomy for Human Physiology with Lab
 - ACB:3110 Principles of Human Anatomy
 - AND: *physiology, one of these:*
 - HHP:1300 Fundamentals of Human Physiology
 - HHP:1350 Fundamentals of Human Physiology with Lab
 - HHP:3500 Human Physiology
 - HHP:3550 Human Physiology with Lab
 - AND: *physics, one of these:*
 - PHYS:1400 Basic Physics
 - PHYS:1511 College Physics I
 - **Psychology:** PSY:1001 Elementary Psychology
 - **Quantitative/Formal Reasoning:** *one of these:*
 - MATH:1440 Math for the Biological Sciences
 - MATH:1020 Elementary Functions
 - **General Education:** *3sh from 2 of the following areas:*
 - Diversity and Inclusion (DI)
 - Historical Perspectives (HP)
 - International and Global Issues (IGI)
 - Literary, Visual, and Performing Arts (LVPA)
 - Values and Culture (VC)
 - **Medical Terminology:** CLSA:3750 Medical and Technical Terminology
- Prerequisites courses must be completed by June 1 with one exception: physics may be completed in the summer semester.
- 2.5 minimum cumulative college GPA is required.
- Two years of high school world language is a prerequisite to the professional program.
- International students and students whose first language is not English: must satisfy all UI Admissions requirements, complete the English Language Requirements for Admission, and have clearance to take a full academic load.

Recommended:

- Job shadowing, patient care experience, and research of professional field(s)
- RSP:1100 Introduction to Radiation Sciences
- CS:1020 Principles of Computing or BAIS:1500 Business Computing Essentials
- STAT:1020, 3510, or 4143 Statistics

Notes:

- Separate application for competitive selection to the professional track due *by January 15*
- Admission to a Radiation Sciences program is not guaranteed.
- Application and selection process is required due to limited clinical openings.
- Personal interview on campus for invited applicants
- Transfer students: Apply to the College of Liberal Arts & Sciences, Radiation Sciences Interest *by mid December*. Also see the Transfer Credits link on the Student Resources tab.

Degree Requirements:

1) **One of the following professional Radiation Sciences tracks:**

- Diagnostic Medical Sonography and General and Vascular (3 year track) – 10 students
- Diagnostic Medical Sonography and Cardiac and Vascular (3 year track) – 8 students

2) **Semester hour and GPA Requirements:**

- Successfully complete a minimum of 120 semester hours of credit
- Maintain a minimum 2.0 cumulative and UI GPA
- Complete all track courses with a C or above

FIRST YEAR - FRESHMAN			
1st Semester Fall	sh	2nd Semester Spring	sh
RHET:1030 Rhetoric	4	Human Physiology	3-5
BIOL:1140 Human Biology* OR HHP:1400 Human Anatomy & Physiology*OR Human Anatomy	3-5	Human Anatomy (if not completed in fall) or Physics	3-5
MATH:1440 Math for Biological Sciences	4	PSY:1001 Elementary Psych	3
DI, IGI, HP, LVPA, or VC	3	CLSA:3750 Medical Terminology	2
RSP:1100 Introduction to Radiation Sciences**	1	DI, IGI, HP, LVPA, or VC	3
Subtotal	15-17	Subtotal	14-18

3rd Semester Summer	sh
PHYS:1400 Basic Physics ^	3
Subtotal	3
Total Freshman	29-38

* Most students will need to complete Human Biology prior to Anatomy (based on academic strength)

** Strongly recommended, not required

^ Physics for DMS program may be completed in the spring or summer semester. Summer is recommended if both Anatomy and Physiology are taken in the spring.

- **Students are advised for success, based on academic strength, not necessarily for a 4 year plan.**
- **Prerequisites may take more than one year to complete.**

Diagnostic Medical Sonography

Both Tracks:

SECOND YEAR - SOPHOMORE			
1st Semester Fall	sh	2nd Semester Spring	sh
RSP:2110 Pathology for Radiation Sciences	2	RSP:3210 Medical Ethics & Law	2
RSP:2120 Patient Care for Radiation Sciences	3	RSCT:4100 Sect Anatomy for Imaging Sci (online)	3
STAT:1020 Elementary Stats and Inference*	(3)	RSCI:4130 ECG & Hemodynamics (online)	3
RSCI:4110 Vascular Anatomy (online)	3	RSMS:3110 Foundations of Sonography	3
CS:1020 Principles of Computing <u>or</u>	(3)	RSMS:3111 Foundations of Sonography Lab	1
BAIS:1500 Business Computing Essentials*	(2)	RSMS:3115 DMS Clinical Internship I	2
Subtotal	8	Subtotal	14
		Total Sophomore	22

General & Vascular:

THIRD YEAR – JUNIOR GENERAL			
1st Semester Fall	sh	2nd Semester Spring	sh
RSMS:3120 Abdominal Sonography I	3	RSMS:3230 Sonography Princ, Physics & Instr	3
RSMS:3121 Abdominal Sonography I Lab	1	RSMS:3231 Sonography Princ, Physics & Instr Lab	1
RSMS:3130 OB & Gyn Sonography I	3	RSMS:3240 Abdominal Sonography II	3
RSMS:3131 OB & Gyn Sonography I Lab	1	RSMS:3250 OB & Gyn Sonography II	3
RSMS:3140 Vascular Sonography I	3	RSMS:3270 Vascular Sonography II	3
RSMS:3141 Vascular Sonography I Lab	1	RSMS:3215 DMS Clinical Internship II	3
Subtotal	12	Subtotal	16
3rd Semester Summer			
RSMS:3325 Abdominal Sonography II Lab	1		
RSMS:3376 Vascular Sonography II Lab	1		
RSMS:3260 Breast Sonography* (online)	(2)		
RSMS:3300 Pediatric Sonography (online)	3		
RSMS:3315 DMS Clinical Internship III	4		
Subtotal	9-11	Total Junior	37-39
FOURTH YEAR – SENIOR GENERAL			
1st Semester Fall	sh	2nd Semester Spring	sh
RSMS:4110 Advanced Sonography	3	RSP:3220 Rad Sci QM & Healthcare Admin	2
RSMS:4111 Advanced Sonography Lab	1	RSMS:4220 Multidisciplinary Capstone Seminar	3
RSMS:4115 DMS Clinical Internship IV	5	RSMS:4215 DMS Clinical Internship V	5
RSP:4110 Research Methodologies for Rad Sci	3	RSRT:3220 EI for Healthcare Professionals	2
Subtotal	12	Subtotal	12
		Total Senior	24
TOTAL DMS GEN/VASC			83sh

Cardiac & Vascular:

THIRD YEAR – JUNIOR CARDIAC			
1st Semester Fall	sh	2nd Semester Spring	sh
RSMS:3100 Cardiac Sonography I	3	RSMS:3230 Sonography Princ, Physics & Instr	3
RSMS:3101 Cardiac Sonography I Lab	2	RSMS:3231 Sonography Princ, Physics & Instr Lab	1
RSMS:3150 Cardiac Physiology & Hemodynamics	3	RSMS:3205 Cardiac Sonography II	3
RSMS:3140 Vascular Sonography I	3	RSMS:3206 Cardiac Sonography II Lab	1
RSMS:3141 Vascular Sonography I Lab	1	RSMS:3270 Vascular Sonography II	3
		RSMS:3215 DMS Clinical Internship II	3
Subtotal	12	Subtotal	14
3rd Semester Summer			
RSMS:3376 Vascular Sonography II Lab	1		
RSMS:3315 DMS Clinical Internship III	4		
RSMS:3305 Pediatric Cardiac Sonography* (online)	(3)		
RSMS:3305 Pediatric Cardiac Sonography Lab*	(1)		
Subtotal	5	Total Junior	31
FOURTH YEAR – SENIOR CARDIAC			
1st Semester Fall	sh	2nd Semester Spring	sh
RSMS:4110 Advanced Sonography	3	RSP:3220 Rad Sci QM & Healthcare Admin	2
RSMS:4111 Advanced Sonography Lab	1	RSMS:4220 Multidisciplinary Capstone Seminar	3
RSMS:4120 Advanced Cardiac Sonography	3	RSMS:4215 DMS Clinical Internship V	5
RSMS:4121 Advanced Cardiac Sonography Lab	1	RSRT:3220 EI for Healthcare Professionals	2
RSMS:4115 DMS Clinical Internship IV	5		
RSP:4110 Research Methodologies for Rad Sci	3		
Subtotal	16	Subtotal	12
		Total Senior	28
TOTAL DMS CARD/VAS			81sh

*Elective