

Diagnostic Medical Sonography

The SIU baccalaureate degree program in radiologic sciences is the only one of its kind in the State of Illinois.

DIAGNOSTIC MEDICAL SONOGRAPHY (ULTRASOUND)

This option is designed to prepare qualified medical diagnostic sonographers. The courses and clinical experiences meet accreditation criteria. Ultrasound, one of the more recently developed specialties in diagnostic radiology, utilizes a high frequency sound wave similar to sonar. The reflected echoes from the body tissues are displayed as two-dimensional images on a video monitor. Some medical problems that are diagnosed with ultrasound include gall-stones, tumors, cysts and fetal abnormalities. The technologist who performs the examination is called a sonographer. Sonographers work under the supervision of either a doctor of medicine or osteopathy that is responsible for the use and interpretation of the ultrasound procedure. While most sonographers work in hospitals, particularly in radiology, cardiology, vascular surgery and obstetrical departments, many will also find employment in outpatient clinics and mobile services. Ultrasound equipment manufacturers also employ sonographers to market their products.

Program of Study

The program of study during the first and second year includes basic sciences, general core courses and health related electives. The third and fourth years are composed of OB/GYN, Abdominal, and Vascular Courses as well as Clinical Rotations.

Admissions

Due to a variety of circumstances, including rules of accreditation, limitations of facilities/internship sites, and faculty-student ratio, enrollment in the program is limited. Following admission to the University, a prospective student must submit a separate Radiologic Sciences application packet to the Admissions Clerk. This application packet is available at the program website. It is important to complete all application procedures by the deadline listed at the program website. Radiography students and radiologic technologists may apply directly to the advanced specialties and complete a B.S. degree.

Scholarships and Awards

Radiologic Science students have the opportunity to apply for scholarship awards from the American Society of Radiologic Technologists, Society of Diagnostic Medical Sonography, and numerous College and University organizations. These awards are based upon scholarly achievement and the active support of the professional association. Many scholarships are available from the College of Applied Sciences and Arts and Southern Illinois University Carbondale. Counseling for financial assistance may be obtained at the Office of Financial Aid, Woody Hall, (618) 453-4334

Expenses

Students accepted into the radiologic sciences program will have expenses in addition to University tuition, fees, and books. These include the cost of uniforms, appropriate health tests and vaccines, and housing and/or travel to distant clinical internship sites.

Student Profile

Characteristics of students enrolled in the Medical Diagnostic Sonography program at SIUC are diverse relative to gender, age, marital status and ethnic and cultural backgrounds.

Career Opportunities

The Department of Labor as well as Money magazine rates the Radiologic Sciences as one of the top ten employment opportunities well into the 21st century.

Employment opportunities are available nationwide and offer the technologist flexible work situations to accommodate various lifestyles and needs. Salaries vary nationwide depending on cost of living.

Clinical Experiences

Hands-on Radiologic Science experiences in regional hospitals and clinics develop professional skills of students and provide health care to the community. Rotations include experience in hospitals and clinics of differing sizes and care delivery throughout southern Illinois, Missouri, and the surrounding region. Opportunities to observe advanced methods of medical imaging and therapeutics will be incorporated into additional minor rotations.

Accreditation and Licensure

The Radiologic Sciences program at SIUC is recognized by the American Registry of Radiologic Technologists (ARRT). Students meet the Illinois licensing requirements at time of graduation and are also eligible to sit for the radiography ARRT exam. The Sonography program is accredited by the Joint Review Committee for Diagnostic Medical Sonography (JRC-DMS) while the Radiation Therapy and Medical Dosimetry programs are accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

Recommended Course Sequence for Diagnostic Medical Sonography Students

Fall Semester	Spring Semester	Summer Semester
Year 1		
ENG 101 3 English Composition	ENG 102 3 English Comp II	
MATH 3 Algebra	U. Core 3 Multicultural	
Group 2 Science 3 PLB/Zool 115/117	Group 1 Science 3 Physics 101	
UCOL 101U 1 University College	HCM 3 HCM Minor Course	
AH 105 2 Medical Terminology	HCM 3 HCM Minor Course	
U. Core 3 Social Science	<u>CMST 101</u> 3 <u>SPEECH</u>	
TOTAL 15	TOTAL 18	
Year 2		
U. Core 3 Social Science	HCM 3 HCM Minor Course	
U. Core 3 University Core Elective/Hum	HCM 3 HCM Minor Course	
U. Core 3 University Core Elective/Hum	U. Core 3 Fine Arts	
AH 415 3 Gerontology/Mortality	AH 241 4 AH 241 (Human Health)	
<u>ISAT 229</u> 3 <u>Computing: Business Admin</u>	<u>RAD 349</u> 3 <u>Fundamentals of Sonography</u>	
TOTAL 15	TOTAL 16	
Year 3		
RAD 359A 2 OB & GYN Sonography I	RAD 359B 2 OB & GYN Sonography II	RAD 399C 2 Clinical Practicum/Lab
RAD 379A 2 Abdominal Sonography I	RAD 379B 2 Abdominal Sonography II	RAD 369 3 Vascular Sonography
RAD 389 3 Ultrasound Physics and Instr.	RAD 399B 2 Clinical Practicum (Lab)	<u>RAD 489</u> 3 <u>Pediatrics</u>
RAD 399A 2 Clinical Practicum (Lab)	HCM 3 HCM Minor Course	TOTAL 8
<u>HCM</u> 3 <u>HCM Minor Course</u>	<u>HCM</u> 3 <u>HCM Minor Course</u>	
Total 12	TOTAL 12	
Year 4		
RAD 409A 10 Clinical Practicum (Clinic)	RAD 409B 10 Clinical Practicum (Clinic)	
RAD 479A 1 Ad. Abdominal Sonography	RAD 459B 1 Ad. OB & GYN Sonography	
<u>RAD 459A</u> 1 <u>Ad. OB & GYN Sonography</u>	<u>RAD 479B</u> 1 <u>Ad. Abdominal Sonography</u>	
TOTAL 12	TOTAL 12	

Contact Information:

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