Diagnostic Medical Sonography

Program Guide, Curriculum and Observation Log



The Diagnostic Medical Sonography (DMS) program at the University of Southern Indiana provides a curriculum which includes didactic courses in conjunction with laboratory and clinical experiences. The DMS curriculum consists of 1 1/2 years of prerequisite general education courses , 1 1/2 years of General Sonography (physics, abdomen, OB/GYN) course work, and one year of EITHER Vascular Sonography or Cardiac Sonography course work. Completion of these four years results in a Bachelor of Science degree. The student will be eligible to apply for credentialing examinations administered by the American Registry for Diagnostic Medical Sonography (ARDMS). The DMS program at USI is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) on recommendation by the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS) in Abdominal-Extended, Obstetrics and Gynecology, Vascular, and Cardiac concentrations.

- CAAHEP ADDRESS: 9355 113th St. N #7709, Seminole, FL 33775 PHONE: 727-210-2350 WEB: www.caahep.org
- JRC-DMS ADDRESS: 6021 University Blvd., Suite 500, Ellicott City, MD 21043 PHONE: 443-973-3251 WEB: www.jrcdms.org

Admission to the Diagnostic Medical Sonography Program

Prospective students must be accepted for admission to USI before being considered for admission to the DMS program. Applicants must have graduated from high school and completed all DMS program prerequisite courses with at least a "C" and a minimum grade point average of 3.0 (4.0 scale). Beginning with the fall 2025 application period, prerequisite science courses (BIOL 121, BIOL 122 and PHYS 101) should be taken within seven years of program application. Program selection occurs annually following the application deadline of **September 15**.

The DMS program application, accompanying required documents, and transcripts must be received by September 15 for program consideration. Failure to submit all necessary documents by the deadline will make the student ineligible for program consideration including the admission interview process. Applicants meeting academic requirements must be eligible for ARDMS certification and be capable of fulfilling essential functions of a diagnostic medical sonographer.

Observation within a sonography department is not required, but it is highly recommended. If you have not completed observation hours, it is strongly recommended that you contact a sonographer and research the following questions:

- What kind of procedures are performed in a general sonography department?
- What type of invasive procedures are performed and what is the sonographer's responsibility during these procedures?
- What type of interaction does a sonographer have with a physician?
- What job responsibilities does a sonographer have other than scanning?

The DMS program is limited in the number of students that may be accepted each year. USI, in collaboration with the clinical affiliates, reserves the right to determine the number of students enrolled in each beginning class. Currently, 12 students are accepted to the DMS program each year.

The DMS student selection process involves a review of all required documents and an interview by the DMS admission committee. This committee consists of the program faculty and clinical instructors from various clinical affiliates. Applicants are informed when to schedule the interview via email from a DMS program representative. All interviews are conducted privately and by appointment only. The committee's decision is conveyed by email no later than two weeks after all interviews are completed.

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Program Fees

Recently accepted DMS students must pay a \$250 deposit fee to reserve their position in the program. This deposit fee will be deducted from the following semester's tuition bill at USI. In addition to tuition and fees, expenses of the program include: books \$1000, uniforms \$200, professional society memberships \$100, clinical education management system \$150, student compliance management system \$150, CPR certification \$100, and immunizations/TB testing \$100. Expenses will also be incurred by the student for travel to local and distance clinical education sites. These expenses are approximate and are subject to change. For information on current charges for tuition and fees, contact the USI Office of Admissions at 812-464-1765. Financial aid information can be obtained through the Office of Student Financial Assistance at 812-464-1767.



Application Checklist

- Apply to the University of Southern Indiana and complete the admissions process, including submission of official university transcripts from all institutions other than USI.
- Declare the Pre-Diagnostic Medical Sonography major with Registrar's office.
- Enroll in and complete prerequisite courses for the DMS program.
- Submit a completed online application with DMS program by September 15.
- Submit verification of observation within abdominal, OBGYN, vascular, and cardiac areas of sonography if applicable.
- In a narrative format, <u>signed and dated</u>, address the following:
 - ♦ Through your observation experience, online research, or communication with practicing sonographers, explain what various sonography examinations are performed by the sonographer in a general sonography department.
 - ♦ Describe which sonography discipline you prefer to pursue in the fourth year of the DMS program, vascular sonography or cardiac sonography; provide a detailed rationale for your preference.
 - ♦ Describe what you believe are essential traits of a diagnostic medical sonographer.
 - ♦ List your long-term career goals.
- Submit all materials no later than <u>September 15</u> to be considered for admission to the DMS program to:

Diagnostic Medical Sonography College of Nursing and Health Professions University of Southern Indiana, 8600 University Boulevard, Evansville IN 47712

PROGRAM DETAILS

http://www.usi.edu/health/diagnostic-medical-sonography

FOR MORE INFORMATION, CONTACT: DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM AT 812-465-1181

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Essential Functions

Essential functions are those physical, mental, and psychosocial characteristics that are necessary to meet the clinical/practice/fieldwork expectations for the College of Nursing and Health Professions programs. Becoming a healthcare professional requires the completion of an education program that is both intellectually and physically challenging. The purpose of this statement is to articulate the essential function requirements of the CNHP programs in a way that allows students to compare their own capabilities against these demands.

There are times when reasonable accommodations can be made in order to assist a student with a disability. Reasonable accommodation does not mean that students with disabilities will be exempt from certain tasks; it does mean that we will work with students with disabilities to determine whether there are ways that we can assist the student toward completion of the tasks.

Motor Skills

- Ability to independently manipulate and guide weights up to 50 pounds
- Ability to move about freely and maneuver in small spaces
- Tolerate regular changes of physical position, both stationary and mobile, for extended (8-12 hour shift) periods of time
- Possess skills to independently handle and operate a range of items, devices or equipment
- Maintain a stable physical position
- Agility to respond in an emergency situation

Communication Skills

• Process, comprehend, and communicate information effectively, clearly, in a timely manner, in the English language, and with individuals from various social, emotional, cultural, and intellectual backgrounds.

Cognitive/Critical Thinking Skills

- Collect, measure, calculate, analyze, interpret, and apply information
- Exercise good judgment in a variety of settings
- Ability to set priorities and manage time effectively

Interpersonal and Behavioral Skills

- Establish and maintain professional working relationships
- Apply conflict management and problem-solving strategies
- Demonstrate professional, ethical, and legal behavior
- Demonstrate appropriate maturity, stability, and empathy to establish effective and harmonious relationships in diverse settings
- Demonstrate flexibility and ability to adapt to change
- Maintain self-control in potentially stressful environments
- Comply with professional standards regardless of circumstance

Sensory Skills

Uses all available senses to collect data regarding patient status and provide patient care.

Diagnostic Medical Sonography Curriculum

Course	Course Title	Credits	CORE 39
Fall Semester-First Year			
ENG 101	Rhetoric and Composition I	3	F
CMST 101/107	Communication	3	F
MATH 111/114/ 215/230	Mathematics	3	F
BIOL 121	Human Anatomy and Physiology I	4	BS- NS Lab
UNIV 101	First Year Experience	1	F
HP 115	Medical Terminology for the Health Professions	<u>2</u>	
	.,	16	
Spring Semester-First Year			
ENG 201	Rhetoric and Composition II	3	F
BIOL 122	Human Anatomy and Physiology II	4	BS-NS Lab
PHYS 101	Introduction to Physical Sciences	3	WOK-S & MI
RADT 196	Orientation to Radiologic and Imaging Sciences	2	
WOK-SIQ	Choose course from Ways of Knowing-Social Inquiry	<u>3</u>	WOK-SI
-		15	

Applicants must complete the 11 prerequisite courses listed above with at least a "C" and a minimum grade point average of 3.0 (4.0 scale). All grades must be available to be eligible to apply to DMS program.

Beginning with the fall 2025 application period, prerequisite science courses (BIOL 121, BIOL 122 and PHYS 101) should be taken within seven years of program application.

Fall Semester-Second Year KIN 192/281 BS-SS BS-World L/C IPH 356	Physical activity/wellness Choose course from BS-Social Science Choose course from BS-World Languages and Cultures Ethics and Healthcare in a Pluralistic Society	1 3 3 3	F BS-SS BS-World L/C WOK-M/E, EE- Diversity
HP 211	The Healthcare Delivery System and Healthcare Policy	<u>3</u> 13	Diversity
Spring Semester-Second Year DMS 301* DMS 312* DMS 313* IPH 401 WOK elective	Patient Care for Imaging Sciences Professionals Introduction to DMS Principles and Procedures Sonographic Sectional Anatomy Interpersonal Perspectives on Global Health Choose course from CAE, HI, or World L/C	2 2 2 3 3 12	EE-Global WOK
Summer Semester-Second Year DMS 315* DMS 316*	Abdominal Procedures Sonographic Lab Practice I	3 <u>3</u> 6	
Fall Semester-Third Year DMS 321* DMS 323* DMS 324* DMS 326* DMS 327*	Sonographic Physics and Instrumentation I Obstetric Procedures Gynecology Procedures Sonographic Lab Practice II Clinical Practice I-General (24 hours per week)	3 3 3 2 <u>3</u> 14	
Spring Semester-Third Year DMS 331* DMS 332* DMS 333* DMS 336* DMS 337*	Sonographic Physics and Instrumentation II Small parts, Pediatric and Specialty Sonographic Exams Critique, Clinical Correlation and Case Analysis Sonographic Lab Practice III Clinical Practice II-General (24 hours per week)	3 2 3 2 <u>3</u> 13	EE-Writing

Diagnostic Medical Sonography Curriculum

Diagnostic Medical Sonography students will complete <u>one</u> of the following concentrations:

Diagnostic Medical Sonography, General Sonography and Vascular Specialty, B.S.

Course Title	Credits	CORE 39
Advanced Clinical Practice (32 hours per week) Introduction to Sonographic Vascular Lab Introduction to Vascular Anatomy and Procedures	4 2 <u>2</u> 8	
Vascular Procedures I Sonographic Vascular Lab Practice I Clinical Practice I-Vascular (32 hours per week) Choose EE-Writing Course	3 2 4 <u>3</u> 12	EE-Writing
Vascular Procedures II Sonographic Professional Advancement Seminar Clinical Practice II-Vascular (24 hours per week) Choose ONE - HI 301 Health Informatics OR HA 431 Healthcare Quality	2 3 3	
	Advanced Clinical Practice (32 hours per week) Introduction to Sonographic Vascular Lab Introduction to Vascular Anatomy and Procedures Vascular Procedures I Sonographic Vascular Lab Practice I Clinical Practice I-Vascular (32 hours per week) Choose EE-Writing Course Vascular Procedures II Sonographic Professional Advancement Seminar Clinical Practice II-Vascular (24 hours per week) Choose ONE - HI 301 Health Informatics OR	Advanced Clinical Practice (32 hours per week) Introduction to Sonographic Vascular Lab Introduction to Vascular Anatomy and Procedures Vascular Procedures I Sonographic Vascular Lab Practice I Clinical Practice I-Vascular (32 hours per week) Choose EE-Writing Course Vascular Procedures II Sonographic Professional Advancement Seminar Clinical Practice II-Vascular (24 hours per week) Choose ONE - HI 301 Health Informatics OR

Diagnostic Medical Sonography, General Sonography and Echocardiography Specialty, B.S.

Course	Course Title	Credits	CORE 39
Summer Semester-Third Year DMS 347* ECHO 398* ECHO 401*	Advanced Clinical Practice (32 hours per week) Introduction to Echocardiography Lab Introduction to Echocardiography	4 2 <u>2</u> 8	
Fall Semester-Fourth Year ECHO 402* ECHO 423* ECHO 426* Writing (EE)	Advanced Echocardiography Echocardiography Lab Practice I Clinical Practice I-Cardiac (32 hours per week) Choose EE-Writing course	3 2 4 3 12	EE-Writing
Spring Semester-Fourth Year ECHO 421* DMS 436* ECHO 437* HI 301 OR HA 431	Fetal Echocardiography Sonographic Professional Advancement Seminar Clinical Practice II-Cardiac (24 hours per week) Choose ONE - HI 301 Health Informatics OR HA 431 Healthcare Quality	2 3 3 11	

^{*}ALL DMS, DVT and ECHO courses must be completed with a "C" or better to progress in the DMS program.

Diagnostic Medical Sonography Observation Log

Student Name:_____



College of Nursing and Health Professions

				Health Professions
FACILITY	DATE	HOURS	Indicate: G=general V=vascular C=cardiac	SONOGRAPHER SIGNATURE

	GENERAL	VASCULAR	CARDIAC	TOTAL
NUMBER OF HOURS OBSERVED				