

DIAGNOSTIC MEDICAL SONOGRAPHY, AAS

The Associate of Applied Science in Diagnostic Medical Sonography (DMS) degree prepares students for one of the fastest growing occupations in the healthcare field with a 14 percent projected growth from 2020 to 2030, according to the Bureau of Labor Statistics. The diagnostic medical sonographer works with highly technical equipment to produce images of the human body which the provider uses to make a medical diagnosis. The Associate of Science in Diagnostic Medical Sonography degree provides students with the academic knowledge and clinical skills and competencies to assume entry level positions in a variety of healthcare environments and sonography specialties to include, abdominal, obstetrics and gynecology, cardiac, vascular, and breast. Students will complete three semesters of supervised practice in selected clinical settings.

At the completion of the diagnostic medical sonography program, students will be able to:

1. Demonstrate professional and ethical conduct in accordance with academic standards; and workplace protocols, certification standards, and state and federal laws.
2. Demonstrate safe principles, behaviors, and techniques in the performance of the sonography role to promote personal and patient safety.
3. Exercise discretion, knowledge, and independent judgment in performing sonographic procedures, accessing medical information systems, and in seeking assistance.
4. Integrate sound knowledge base, pertinent patient history, supporting clinical data, and data obtained using ultrasound and related diagnostic technologies to provide a summary of findings to the provider.
5. Utilize effective oral, written, and technological communications with patients and members of the inter-professional healthcare team.

For information on admission requirements for the DMS program: DMS Admission Requirements (<https://catalog.monroecollege.edu/catalog/admissions/undergraduate-admissions/#text>)

Requirements

Code	Title	Credits
Major-Related Courses		
DS-102	Introduction to Patient Care and Sonography	3
DS-125	Sonography Physics & Instrumentation	4
DS-160	Vascular Imaging I	3
DS-161	Vascular Imaging II	3
DS-170	Abdominal Sonography I	3
DS-171	Abdominal Sonography II	3
DS-180	OB/GYN Sonography I	3
DS-181	OB/GYN Sonography II	3
DS-190	Echocardiography I	3
DS-191	Echocardiography II	3
DS-250	Clinical Externship I	7
DS-251	Clinical Externship II	7
DS-252	Clinical Externship III	7

SC-104	Introduction to Physics	3
SC-114	Human Anatomy and Physiology I	3
SC-114L	Human Anatomy and Physiology I Lab	1
SC-116	Human Anatomy and Physiology II	3
SC-116L	Human Anatomy and Physiology II Lab	1
HC-126	Medical Terminology	3
HC-208	Pathophysiology	3
Major-Related Courses Subtotal		69
General Education and Related Courses		
EN-111	College Writing and Critical Analysis	3
MA-115	Quantitative Reasoning	3
LA-101	Introduction to Psychology	3
LA-122	Fundamentals of Communication	3
General Education and Related Courses Subtotal		12
Total Credits		81

Academic Requirements

- A grade of "C" or better is required in the following courses for progression in the major: DS-102 Introduction to Patient Care and Sonography, DS-125 Sonography Physics & Instrumentation, DS-160 Vascular Imaging I, DS-161 Vascular Imaging II, DS-170 Abdominal Sonography I, DS-171 Abdominal Sonography II, DS-180 OB/GYN Sonography I, DS-181 OB/GYN Sonography II, DS-190 Echocardiography I, DS-191 Echocardiography II, DS-250 Clinical Externship I, DS-252 Clinical Externship III, HC-126 Medical Terminology, HC-208 Pathophysiology, MA-115 Quantitative Reasoning, SC-104 Introduction to Physics SC-114 Human Anatomy and Physiology I, SC-114L Human Anatomy and Physiology I Lab, SC-116 Human Anatomy and Physiology II, and SC-116L Human Anatomy and Physiology II Lab.
- The Clinical Internships, which are required, are available only during the day Monday through Friday.

Recommended Sequence: Daytime

Course	Title	Credits
Semester 1		
DS-102	Introduction to Patient Care and Sonography	3
SC-104	Introduction to Physics	3
SC-114	Human Anatomy and Physiology I	3
SC-114L	Human Anatomy and Physiology I Lab	1
EN-111	College Writing and Critical Analysis	3
MA-115	Quantitative Reasoning (Must be taken in semester 1)	3
Credits		16
Semester 2		
DS-125	Sonography Physics & Instrumentation	4
DS-170	Abdominal Sonography I	3
DS-180	OB/GYN Sonography I	3
HC-126	Medical Terminology	3
SC-116	Human Anatomy and Physiology II	3
SC-116L	Human Anatomy and Physiology II Lab	1
Credits		17
Semester 3		
DS-171	Abdominal Sonography II	3
DS-181	OB/GYN Sonography II	3
DS-250	Clinical Externship I	7
HC-208	Pathophysiology	3
Credits		16

Semester 4		
DS-160	Vascular Imaging I	3
DS-190	Echocardiography I	3
DS-251	Clinical Externship II	7
LA-101	Introduction to Psychology	3
Credits		16
Semester 5		
DS-161	Vascular Imaging II	3
DS-191	Echocardiography II	3
DS-252	Clinical Externship III	7
LA-122	Fundamentals of Communication	3
Credits		16
Total Credits		81

Recommended Sequence: Evening

Course	Title	Credits
Semester 1		
DS-102	Introduction to Patient Care and Sonography	3
SC-104	Introduction to Physics	3
SC-114	Human Anatomy and Physiology I	3
SC-114L	Human Anatomy and Physiology I Lab	1
EN-111	College Writing and Critical Analysis	3
MA-115	Quantitative Reasoning (Must be taken in semester 1)	3
Credits		16
Semester 2		
DS-125	Sonography Physics & Instrumentation	4
DS-170	Abdominal Sonography I	3
HC-126	Medical Terminology	3
SC-116	Human Anatomy and Physiology II	3
SC-116L	Human Anatomy and Physiology II Lab	1
Credits		14
Semester 3		
DS-160	Vascular Imaging I	3
DS-171	Abdominal Sonography II	3
DS-180	OB/GYN Sonography I	3
HC-208	Pathophysiology (Can be taken online)	3
Credits		12
Semester 4		
DS-161	Vascular Imaging II	3
DS-181	OB/GYN Sonography II	3
DS-250	Clinical Externship I	7
Credits		13
Semester 5		
DS-190	Echocardiography I	3
DS-251	Clinical Externship II	7
LA-101	Introduction to Psychology	3
Credits		13
Semester 6		
DS-191	Echocardiography II	3
DS-252	Clinical Externship III	7
LA-122	Fundamentals of Communication	3
Credits		13
Total Credits		81