

DIAGNOSTIC MEDICAL SONOGRAPHY, A.S.

The 57 units listed below, plus all MSJC General Education Option A requirements are required to earn an Associate in Science degree in Diagnostic Medical Sonography. See counselor for recommended vocational and academic courses.

The Diagnostic Medical Sonography program is a non-transfer AS degree program, consisting of a cohort group completing 4 semesters + 1 summer semester which includes a 12-month clinical internship. This program is competitive in nature due to the greater number of applicants as compared to the number of available clinical internships. This degree program provides an opportunity for students to be educated and trained in the healthcare career of Diagnostic Medical Sonography. The objective of the program is to graduate students who are competent and confident in providing excellent patient care in the field of sonography.

The goal of our DMS program is to prepare competent entry-level sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. Students will demonstrate a high competency in anatomy and pathology, as seen on the ultrasound exam. Students will be evaluated on didactic learning in Ultrasound Physics and Instrumentation, hands-on scanning skills, communication skills, patient care, and critical thinking ability.

Students will practice ultrasound scanning skills with ultrasound equipment in the campus lab. Those skills will be applied and enhanced in an affiliated medical center by training on the job with a licensed sonographer scanning patients. The DMS program prepares the student to work in an ultrasound department performing abdomen, superficial structures (thyroid, breast, and testicular), gynecology, obstetric, and basic musculoskeletal ultrasound exams. Additional vascular and musculoskeletal didactic and lab training is included in the program curriculum, although our program has not pursued vascular or musculoskeletal accreditation at this time.

The didactic education will prepare the student for taking the national exams of the American Registry of Diagnostic Medical Sonography (ARDMS). These exams include Sonography Physics and Instrumentation (SPI), Abdominal (ABD), and Obstetrics and Gynecology (OB-GYN).

Diagnostic Medical Sonography Department Page (<https://www.msjc.edu/nursingandalliedhealth/dms/>)

AS.DMS

Program Map Design Your Future!

Begin by exploring MSJC program maps to find career or transfer (<https://msjc.emsicc.com/?radius=®ion=All%20Regions>) opportunities. Program maps show the recommended course sequence that leads to graduation or transfer. The maps were developed by program experts to give you the skills and knowledge you need to succeed.

- **Starting in Spring?** Choose Fall Semester 1 courses.
- **Are you a part-time student?** Start Fall Semester 1 courses and follow the course sequence.

Prerequisites

Consult the Multi-Criteria Point System (<https://www.msjc.edu/nursingandalliedhealth/dms/documents/MSJC-DMS-criteria-selection-process.pdf>) for admission requirements. Prerequisites in this program will be enforced. Review admission and application information (<https://www.msjc.edu/nursingandalliedhealth/dms/Application.html>).

MSJC General Education Option A

Fall Semester 1		Units
DMS-100	Fundamentals of Diagnostic Medical Sonography	2
DMS-101	Pathophysiology	3
DMS-503	Patient Care Techniques for Imaging Professionals (formerly DMS-103)	3
DMS-525	Ultrasound Physics and Instrumentation I (formerly DMS-125)	2
Units		10
Spring Semester 1		
DMS-102	Sonography Medical Ethics	3
DMS-504	Clinical Observation (formerly DMS-104)	2
DMS-110	Sectional Imaging	2
DMS-120	General Sonography Scanning Lab (formerly Abdomen Scanning)	1.5
DMS-122	Ultrasound Pathology I	3
DMS-535	Ultrasound Physics and Instrumentation II (formerly DMS-135)	2
Units		13.5
Summer 1		
DMS-514	Clinical Experience I (formerly DMS-114)	5
Units		5
Fall Semester 2		
DMS-524	Clinical Experience II (formerly DMS-124)	10
DMS-130	Obstetric/Gynecology Scanning	1.5
DMS-132	Ultrasound Pathology II	3
DMS-140	Introduction to Vascular Imaging	2
Units		16.5
Spring Semester 2		
DMS-134	Ultrasound Seminar	2
DMS-136	Clinical Experience III (formerly Clinical Experience IV)	10
Units		12
Total Units		57

Language Requirement: Some CSU's require the equivalency of an intermediate language proficiency for graduation. Please see a counselor for more detail regarding specific CSU major and graduation requirements.

Note: AREA G (Math Competency) can be demonstrated by a high school math course at or above the level of Algebra 2 with a grade of C or better.

Requirements

Course	Title	Credits
MSJC General Education Option A (https://catalog.msjc.edu/degrees-certificates-curricula/)		24

Program Prerequisites	20-22
DMS Program Courses	57

Program Prerequisites

Course	Title	Credits
AH-105	Medical Terminology	3
ANAT-101	Human Anatomy & Physiology I	4
ANAT-102	Human Anatomy & Physiology II	4
COMM-100	Public Speaking	3
or COMM-103	Interpersonal Communication	
or COMM-103H	Honors Interpersonal Communication	
MATH-105	College Algebra (or higher)	3-4
or MATH-140	Introduction to Statistics	
PHY-100	Physical Science in Modern Society (formerly Conceptual Physics) (or higher)	3
Total Units		20-21

DMS Program Courses

Course	Title	Credits
Semester One		
DMS-100	Fundamentals of Diagnostic Medical Sonography	2
DMS-101	Pathophysiology	3
DMS-503	Patient Care Techniques for Imaging Professionals (formerly DMS-103)	3
DMS-525	Ultrasound Physics and Instrumentation I (formerly DMS-125)	2
Semester Two		
DMS-102	Sonography Medical Ethics	3
DMS-504	Clinical Observation (formerly DMS-104)	2
DMS-110	Sectional Imaging	2
DMS-120	General Sonography Scanning Lab (formerly Abdomen Scanning)	1.5
DMS-122	Ultrasound Pathology I	3
DMS-535	Ultrasound Physics and Instrumentation II (formerly DMS-135)	2
Summer		
DMS-514	Clinical Experience I (formerly DMS-114)	5
Semester Three		
DMS-524	Clinical Experience II (formerly DMS-124)	10
DMS-130	Obstetric/Gynecology Scanning	1.5
DMS-132	Ultrasound Pathology II	3
DMS-140	Introduction to Vascular Imaging	2
Semester Four		
DMS-134	Ultrasound Seminar	2
DMS-136	Clinical Experience III (formerly Clinical Experience IV)	10
Total Units		57

The sonography courses must be taken in a specific sequence, students must attain a minimum grade of "C" or above in all required courses in order to obtain the degree.

Career Exploration

Discover information about careers that interest you!

1. Take a **Career Quiz** (<https://msjc.emsicc.com/assessment/>) to learn about yourself and receive career suggestions based on your interests.
2. Search available **in-demand jobs** (<https://msjc.emsicc.com/browse-careers/>) in your career areas of interest and find up-to-date salaries and education requirements.
3. Find the **MSJC Program** (<https://msjc.emsicc.com/browse-programs/>) that connects your interests to a career.

Note: There are no guaranteed positions for students completing these programs. Education and work experience required will vary by employer. The salary and benefits for specific occupations will be dependent on work experience, education, background, and employer.