

DIAGNOSTIC MEDICAL SONOGRAPHY, ASSOCIATE IN SCIENCE DEGREE

Banner Code: 1_AS_DMS
Not Financial Aid Eligible

Diagnostic Medical Sonography (DMS) is a medical imaging modality using high-frequency sound waves to create images of specific areas of the body for which pathology may be diagnosed. A competent Sonographer must have a thorough knowledge of cross-sectional anatomy and pathology, as well as the skills to manipulate a wide variety of sophisticated instruments. The DMS Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

In addition to completion of the prerequisite and required courses below, this program requires completion of the Associate in Science General Education as listed in the catalog. Also, the completion of MATH A030 or higher college-level mathematics course is required by the CAAHEP and Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS).

ALH A120 Human Diseases may be taken prior to program start. A "C" grade is required in all program courses.

Program Admission

Allied Health 010 course – application and orientation.

Students must complete Associate in Science degree graduation requirements and the program prerequisites prior to acceptance to the program.

Program Outcome

1. To prepare competent entry-level sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains for the abdominal sonography-extended concentration.
2. To prepare competent entry-level sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains for the obstetrics and gynecology concentration.

Review Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/associate-degree/>) and General Education (<https://catalog.cccd.edu/orange-coast/general-education-patterns/>).

Recommended Preparation

Course	Title	Units
COUN A105	Strategies for College Success	3
Course	Title	Units
Required Prerequisites		
ALH A010	Health Occupations	0.5
ALH A111	Medical Terminology	3
BIOL A221	Anatomy-Physiology	4
DMS A110	Introduction to Sonography	1.5

Course	Title	Units
MATH A030	Intermediate Algebra (or higher)	4
RADT A100	Radiologic Physics	2
Required Courses		
ALH A115	Patient Care	2
ALH A120	Human Diseases	2
DMS A123	Sectional Anatomy for Medical Imaging	4
DMS A150	Sonographic Physics and Instrumentation for DMS	3.5
DMS A126	OB/GYN Sonography	4
DMS A155	Introduction to Vascular Ultrasound	2.5
DMS A161	Pathophysiology	3
DMS A165	Introduction to Scanning Practice	3
DMS A166	DMS Clinical Experience 1	2
DMS A167	DMS Clinical Experience 2	5.5
DMS A255	Advanced Vascular Ultrasound	2.5
DMS A271	DMS Clinical Experience 3	9
DMS A274	Abdominal Sonography	3
DMS A276	DMS Clinical Experience 4	2.5
DMS A275	Sonographic Review	3
DMS A281	DMS Clinical Experience 5	10
Total Units		76.5

Requirement	Units
Program Major Units	76.5
AS General Education Option 1, 2, or 3	Varies
Total Minimum Degree Units	88.5-91.5

Diagnostic Medical Sonography Suggested Elective

PHIL A120 Ethics

Program Sequence

These sequences at Orange Coast College are general course curriculum maps for students to finish all major and general education requirements for two-year completion of degrees, and/or fulfillment of transfer requirements. The course sequence may include course prerequisites and other placement requirements. **Students are advised to meet with an Orange Coast College Counselor to review course selections and sequences to ensure that completion of this program will meet a student's transfer and career goals.**

For terms less than 15 units, students should meet with a counselor to reconfigure their sequence to maintain financial aid eligibility with a full-time course load.

Course	Title	Units
Year 1		
Semester 1		
OCC AS GE AREA A1 - CHOOSE ONE		3
ALH A010	Health Occupations	0.5
BIOL A221	Anatomy-Physiology	4
ALH A111	Medical Terminology	3
Select one of the following or satisfy Math competency (completion of High School Algebra 2 with a "C" or better): (hours: 3-4)		4

Course	Title	Units
MATH A030 or MATH A045	Intermediate Algebra ¹ or Combined Elementary and Intermediate Algebra	
Units		14.5
Semester 2		
OCC AS GE AREA C1- CHOOSE ONE		3
RADT A100	Radiologic Physics	2
OCC AS GE AREA C2- CHOOSE ONE		3
OCC AS GE AREA A2- CHOOSE ONE ²		3-4
DMS A110	Introduction to Sonography	1.5
Units		12.5-13.5
Summer		
OCC AS GE AREA D- CHOOSE ONE		3
Units		3
Year 2		
Semester 1		
ALH A115	Patient Care ³	2
ALH A120	Human Diseases	2
DMS A123	Sectional Anatomy for Medical Imaging	4
DMS A150	Sonographic Physics and Instrumentation for DMS	3.5
Units		11.5
Semester 2		
DMS A126	OB/GYN Sonography	4
DMS A155	Introduction to Vascular Ultrasound	2.5
DMS A161	Pathophysiology	3
DMS A165	Introduction to Scanning Practice	3
DMS A166	DMS Clinical Experience 1	2
Units		14.5
Summer		
DMS A167	DMS Clinical Experience 2	5.5
Units		5.5
Year 3		
Semester 1		
DMS A255	Advanced Vascular Ultrasound	2.5
DMS A271	DMS Clinical Experience 3	9
DMS A274	Abdominal Sonography	3
DMS A276	DMS Clinical Experience 4	2.5
Units		17
Semester 2		
DMS A275	Sonographic Review	3
DMS A281	DMS Clinical Experience 5	10
Units		13
Total Units		91.5-92.5

³ Acceptance into the OCC Diagnostic Medical Sonography program required to begin major coursework (Cohort Restriction)

¹ Math A030 or higher OR take 3-4 degree applicable elective units if math competency was met through completion of High School Algebra 2 with a "C" or better; *100-level Math courses satisfy AS Math Requirement and OCC AS GE AREA A2

² OCC AS GE AREA A2 - Required if 100-level MATH will not be taken to meet Math competency. If MATH A100 or higher will be taken, then needs to take 3-4 degree applicable elective units