

DIAGNOSTIC MEDICAL SONOGRAPHY WITH AN ECHOCARDIOGRAPHY CONCENTRATION (AAS)

Concordia University, St. Paul offers an Associate of Applied Science (AAS) in Diagnostic Medical Sonography degree program, which is designed to prepare students to work as health care professionals, to interact with other health care professionals and patients in a professional and ethical manner, to develop the best possible technical skills in sonography, and to demonstrate at all times the utmost respect and concern for the well-being of the patients they serve.

Graduates will be prepared to provide health care services as sonographers. The diagnostic medical sonographer works under the direction of a physician, using ultrasound imaging techniques for purposes of diagnosis.

Degree Requirements

Associate of Applied Science (<http://catalog.csp.edu/undergraduate/academic-information/graduation-requirements/>) degree consists of a minimum of 60 credits, which includes a minimum of 20 general education credits and a minimum of 30 program-related occupational or technical credits.

Code	Title	Credits
Prerequisites (must be completed prior to starting the Diagnostic Medical Sonography program)		
BIO 117	Human Anatomy & Physiology for Sonography	4
DMS 100	Introduction to Ultrasound	1
MAT 165	Quantitative Reasoning for Health Care Professionals * (3)	
ENG 121	College Writing * (3)	
PHS 112	Introductory Physics for Health Sciences * (4)	
Total Credits		5

Code	Title	Credits
General Education Requirements		
THL 125	Introduction to the Bible	3
COM 110	Interpersonal Communication	3
PSY 102	Introduction to Psychology	3
ENG 121	College Writing	3
MAT 165	Quantitative Reasoning for Health Care Professionals	3
PHS 112	Introductory Physics for Health Sciences	4
Total Credits		19

Code	Title	Credits
Echocardiography Concentration		
ECH 111	Foundations of Echocardiography	5
ECH 116	Cardiovascular Anatomy and Physiology	2
ECH 100	Clinical Practicum I	1

BIO 350	Medical Terminology	2
ECH 200	Medical Law and Ethics	3
ECH 156	Adult Echocardiography I	6
ECH 150	Clinical Practicum II	2
ECH 105	Ultrasound Physics	4
ECH 255	Adult Echocardiography II	4
ECH 225	Clinical Practicum III	3
ECH 251	Special Procedures	3
ECH 275	Introduction to Congenital Echocardiography	3
ECH 280	Clinical Practicum IV	3
ECH 290	Clinical Practicum V	5
ECH 299	Capstone/Board Review	1
Total Credits		47

* Courses count towards general education requirement.

CSP's Associate of Applied Science (AAS) in Diagnostic Medical Sonography (DMS) prepares students to take the ARDMS board examinations (SPI and a specialty board AB or OB). SPI can be completed after successful completion of our Ultrasound Physics course and the specialty boards can be taken 60 days prior to graduation. To see what is required to sit for each ARDMS board examination, please click [here](#). The ARDMS board examinations (SPI and a specialty board) are required to practice in each state. In addition, currently New Hampshire, New Mexico, North Dakota, and Oregon are the only states with approved legislation mandating the licensure of sonographers within those particular states as an additional requirement. To see the additional requirements for each of those states, please click [here](#)."

Course	Title	Credits
First Year		
First Semester		
ECH 100	Clinical Practicum I	1
ECH 111	Foundations of Echocardiography	5
ECH 116	Cardiovascular Anatomy and Physiology	2
ECH 200	Medical Law and Ethics	3
Second Semester		
ECH 105	Ultrasound Physics	4
ECH 150	Clinical Practicum II	2
ECH 156	Adult Echocardiography I	6
Third Semester		
ECH 255	Adult Echocardiography II	4
ECH 225	Clinical Practicum III	3
		Credits
		30
Second Year		
First Semester		
ECH 251	Special Procedures	3
ECH 275	Introduction to Congenital Echocardiography	3
ECH 280	Clinical Practicum IV	3
Second Semester		
ECH 290	Clinical Practicum V	5

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ECH 299	Capstone/Board Review	1
Credits		15
Total Credits		45