

DIAGNOSTIC MEDICAL SONOGRAPHY

ASSOCIATE OF SCIENCE

Quarter Credit Hours Required = 104

Contact Hours Required = 1472

The Diagnostic Medical Sonography program prepares students for a rewarding career in a highly specialized, health science field. Students successfully trained in this associate degree program will be prepared to work in hospitals, outpatient clinics, or private practice. Sonographers work closely with physicians and other healthcare professionals as a trusted member of the patient care team. Critical patient diagnosis is dependent on the sonographer's ability to produce quality diagnostic images which are interpreted by a physician. The areas of concentration will include ultrasound physics and instrumentation, along with abdominal, reproductive systems, obstetrical, superficial structures, and vascular scanning.

The student should understand the anatomy, physiology, and pathophysiology of organ systems; recognize the sonographic characteristics of organs; learn the protocols for a logical and thorough survey of organ systems; and provide a diagnostic impression to the interpreting physician. Students will also learn to work effectively with other healthcare professionals to promote patient safety and quality patient care.

A unique feature of the program is a comprehensive externship (360 hours), which is necessary to provide the student with hands-on experience in the field of ultrasound. This practical experience will be completed under the mentorship of qualified sonographers and physicians.

Upon successful completion of this program, students should be able to

- perform diagnostic ultrasound examinations with competency;
- evaluate sonographic images;
- explain the principles of how ultrasound machines function;
- demonstrate the ability to successfully perform in a healthcare environment;
- interact professionally with patients and other healthcare personnel; and
- coordinate a successful job search.

		Lecture Hours	Lab Hours	Externship Hours	Total Hours	Quarter Credit Hours
FOUNDATION:						
EDU 1020	Career Exploration/Planning	40	0	0	40	4
AREA OF CONCENTRATION:						
BIO 1130	Anatomy and Physiology: Organs and Systems	40	0	0	40	4
DMS 1010	Ultrasound Instrumentation and Physics Principles	40	0	0	40	4
DMS 1150	Anatomy and Physiology for Ultrasound	40	0	0	40	4
DMS 1160	Introduction to Ultrasound Scanning	20	20	0	40	3
DMS 1400	Female Reproductive Scanning	20	20	0	40	3
DMS 1450	Hemodynamic Principles	20	20	0	40	3
DMS 2050	Pathophysiology for Ultrasound	40	0	0	40	4
DMS 2110	Obstetrical Scanning I	20	20	0	40	3
DMS 2120	Abdominal Scanning I	20	20	0	40	3
DMS 2130	Vascular Scanning I	20	20	0	40	3
DMS 2210	Obstetrical Scanning II	20	20	0	40	3
DMS 2220	Abdominal Scanning II	20	20	0	40	3
DMS 2230	Vascular Scanning II	20	20	0	40	3
DMS 2310	Obstetrical Scanning III	20	20	10	50	3
DMS 2320	Abdominal Scanning III	20	20	10	50	3
DMS 2330	Vascular Scanning III	20	20	12	52	3
DMS 2420	Ultrasound Physics	40	0	0	40	4
DMS 2600	Diagnostic Medical Sonography Externship	0	0	400	400	12
MED 1010	Medical Terminology	40	0	0	40	4
PHY 1010	Physics	40	0	0	40	4
GENERAL EDUCATION:						
These courses are to be selected in consultation with the Program Director so as to effectuate a balanced educational program. Select a total (minimum) of 24 quarter hours as indicated below:						
	Communications	120	0	0	120	12
	Humanities and Fine Arts	40	0	0	40	4
	Mathematics	40	0	0	40	4
	Social and Behavioral Sciences	40	0	0	40	4
TOTAL MINIMUM QUARTER CREDIT HOURS REQUIRED		800	240	432	1472	104