

DIAGNOSTIC MEDICAL SONOGRAPHY

ASSOCIATE OF APPLIED SCIENCE

Quarter Credit Hours Required = 96

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.

FOUNDATION:		Quarter Credit Hours
EDU 1010	Learning Framework	4
EDU 1020	Career Exploration/Planning	4
Total Minimum Required Foundation Credits		8

AREA OF CONCENTRATION:		
BIO 1130	Anatomy and Physiology: Organs and Systems	4
DMS 1010	Ultrasound Instrumentation and Physics Principles	4
DMS 1150	Anatomy and Physiology for Ultrasound	4
DMS 1160	Introduction to Ultrasound Scanning	3
DMS 1400	Female Reproductive Scanning	3
DMS 1450	Hemodynamic Principles	3
DMS 2050	Pathophysiology for Ultrasound	4
DMS 2110	Obstetrical Scanning I	3
DMS 2120	Abdominal Scanning I	3
DMS 2130	Vascular Scanning I	3
DMS 2210	Obstetrical Scanning II	3
DMS 2220	Abdominal Scanning II	3
DMS 2230	Vascular Scanning II	3
DMS 2310	Obstetrical Scanning III	3
DMS 2320	Abdominal Scanning III	3
DMS 2330	Vascular Scanning III	3
DMS 2420	Ultrasound Physics	4
DMS 2600	Diagnostic Medical Sonography Externship	12
MED 1140	Medical Law and Ethics	4
Total Minimum Required Area of Concentration Credits		72

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 16 credit hours as indicated below:		
Communications		8
Mathematics		4
Social and Behavioral Sciences		4
Total Minimum Required General Education Credits		16

TOTAL MINIMUM QUARTER CREDIT HOURS REQUIRED96

Ultrasound students must meet competency standards for obstetrical, abdominal, and vascular scanning at each level (I, II, and III) prior to clearance for enrollment in any of the scanning classes at the next level.