

DIAGNOSTIC MEDICAL SONOGRAPHY

ASSOCIATE OF APPLIED SCIENCE

Quarter Credit Hours Required = 96



The Diagnostic Medical Sonography (DMS) program prepares students for a rewarding career in a highly specialized, health science field. 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. A unique feature of the program is a comprehensive clinical experience and externship (800 total 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. Students successfully trained in this associate degree program will be prepared to work in hospitals, outpatient clinics, or private practice.

The areas of concentration will include ultrasound physics and instrumentation, along with abdominal, reproductive systems, obstetrical, superficial structures, and vascular scanning. DMS core courses are designed to prepare competent entry-level general/vascular sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

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

- obtain patient history and lab results pertinent to the ultrasound exam;
- understand the anatomy, physiology, and pathophysiology of organ systems;
- work independently using appropriate discretion and judgment;
- perform diagnostic ultrasound examinations with competency;
- recognize the normal and abnormal sonographic characteristics of organs;
- learn the protocols for a logical and thorough survey of organ systems;
- evaluate sonographic images for usefulness as a diagnostic tool;
- provide a diagnostic impression to the interpreting physician using oral and/or written communication; and
- work effectively with other healthcare professionals to promote patient safety and quality patient care.

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 1010 Medical Terminology	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 REQUIRED 96

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.