Diagnostic Medical Sonography (DMS)

Courses

DMS A101 Introduction to Sonography 2 Credits
Introduces the history of ultrasound, its medical application, the sonographer’s role, ergonomics, terminology, approaches to scanning, anatomical relationships and sectional anatomy.
Registration Restrictions: Department approval

DMS A102 Foundations of Sonography 2 Credits
Introduces the profession and basic skills of sonography with emphasis on sonographic terminology, sonographer and patient safety, effective communication, and legal/ethical aspects.
Registration Restrictions: Departmental approval

DMS A103 Patient Care in Sonography 2 Credits
Introduces general patient care and communication skills used working in sonography. Includes clinical procedures and techniques, infection control, and safety.
Registration Restrictions: Department approval

DMS A105 Principles and Instrumentation I 3 Credits
Introduces the physical principles of sound waves, acoustic parameters, ultrasound transducers, instrumentation, equipment operation, and the methods of image formation and storage.
Registration Restrictions: Department approval

DMS A107 Abdominal Sonography I 2 Credits
Introduces the anatomy and physiology of abdominal vasculature, organs, systems and structures. Includes normal sonographic appearance of anatomy.
Registration Restrictions: Department approval

DMS A109 OB and Gyn Sonography I 3 Credits
Introduces the embryology, anatomy and physiology of the female reproductive system and developing fetus. Includes normal sonographic appearance of anatomy.
Registration Restrictions: Department approval

DMS A205 Principles and Instrumentation II 3 Credits
Discusses advanced imaging, Doppler principles, image artifacts, quality assurance programs and biologic effects. Includes application of advanced and Doppler imaging methods.
Registration Restrictions: Department approval
Prerequisites: DMS A105 with a minimum grade of C.

DMS A207 Abdominal Sonography II 2 Credits
Discusses the pathologic conditions of abdominal vasculature, organs, systems and structures. Includes sonographic findings and scanning protocols.
Registration Restrictions: Departmental approval
Prerequisites: DMS A107 with a minimum grade of C.

DMS A209 OB and Gyn Sonography II 2 Credits
Discusses the pathologic conditions of the female reproductive system and fetal development. Includes sonographic findings and scanning protocols.
Registration Restrictions: Department approval
Prerequisites: DMS A109 with a minimum grade of C.

DMS A211 Small Parts Sonography 1 Credit
Introduces the anatomy, physiology and pathologic conditions of superficial structures and small parts. Includes normal sonographic appearance of anatomy, sonographic findings and scanning protocols.
Registration Restrictions: Departmental approval

DMS A213 Vascular Technology 2 Credits
Introduces the anatomy, physiology, hemodynamics and pathologic conditions of the cardiovascular system. Includes normal sonographic appearance of anatomy, sonographic findings and scanning protocols.
Registration Restrictions: Departmental approval

DMS A215 Breast Sonography 1 Credit
Introduces the anatomy, physiology and pathologic conditions of breast tissue. Includes normal sonographic appearance of anatomy, sonographic findings and scanning protocols.
Registration Restrictions: Departmental approval

DMS A217 Fundamentals of Sonography Lab 1 Credit
Provides students the opportunity to apply didactic knowledge using sonographic equipment in a supervised laboratory environment.
Registration Restrictions: Departmental approval
Prerequisites: DMS A102 with a minimum grade of C and DMS A105 with minimum grade of C and DMS A107 with minimum grade of C and DMS A109 with minimum grade of C.

DMS A219 Practical Sonography Lab 3 Credits
Provides students the opportunity to apply scanning techniques in a realistic, supervised laboratory environment.
Registration Restrictions: Admission to the Associate of Applied Science in Diagnostic Medical Sonography, successful completion of the American Registry of Diagnostic Medical Sonography (ARDMS) Sonography Principles and Instrumentation (SPI) exam, all required immunizations, and department approval
Prerequisites: DMS A217 with a minimum grade of P.

DMS A221 Pediatric Sonography 1 Credit
Introduces the anatomy, physiology and pathologic conditions for neonatal and pediatric patients. Includes normal sonographic appearance of anatomy, sonographic findings and scanning protocols.
Registration Restrictions: Departmental approval

DMS A295A Clinical Practicum I 9 Credits
Provides supervised clinical ultrasound experience in a health care facility. Students will observe, assist with and perform a variety of sonographic examinations.
Registration Restrictions: Departmental approval
Prerequisites: DMS A219 with a minimum grade of P.

DMS A295B Clinical Practicum II 9 Credits
Provides continued supervised clinical ultrasound experience in a health care facility. Students will perform a variety of sonographic examinations.
Registration Restrictions: Departmental approval
Prerequisites: DMS A295A with a minimum grade of P.
DMS A392 Pathophysiology Seminar 3 Credits
Provides continued discussion of disease pathogenesis. Includes student presentation of case studies with correlation of sonographic, clinical and other diagnostic testing information.

Registration Restrictions: Departmental approval
Prerequisites: DMS A295A with a minimum grade of P.

DMS A395 Clinical Practicum III 3 Credits
Provides continued supervised clinical ultrasound experience in a health care facility. Students will perform a variety of sonographic examinations.

Registration Restrictions: Departmental approval
Prerequisites: DMS A295B with a minimum grade of P.