

## DMS— Diagnostic Med Sonography

### **DMS 101 Ultrasound Physics and Instr I** 2-0-2 **Prerequisites:** DMS 164

This course is a study of fundamental principles of acoustic physics including sound waves, sound wave propagation, sound wave interactions, image production, ultrasound transducers, transducer arrays, transducer operation, imaging modes, and biological effects.

### **DMS 112 Ob/Gyn Sonography I** 2-3-3

This course studies sonographic imaging methods of the female pelvis, the fetus and the gravid uterus, emphasizing anatomy, physiology, pathology, and embryology.

### **DMS 114 DMS Cross Sectional Anatomy** 2-3-3

This course is a study of cross-sectional and sagittal anatomy of the abdomen along with basic scanning techniques.

### **DMS 120 Sonographic Instrumentation II** 3-0-3 **Prerequisites:** DMS 101

This course is an advanced study of machine instrumentation, including display modes, components of an ultrasound system, quality control, an introduction to Doppler, the biological effects of ultrasound, artifacts, and future trends.

### **DMS 122 Abdominal Sonography** 0-3-1 **Prerequisites:** DMS 101

This course is a study of the less common but significant pathological conditions of the abdominal organs and systems, advanced disease processes, differential diagnosis associated with these pathologies, and advanced scanning methods.

### **DMS 124 Ob/Gyn Sonography II** 1-3-2 **Prerequisites:** DMS 112

This course is an advanced study of the gynecological pathologic processes, including fetal anomalies/abnormalities and advanced fetal gestational age testing.

### **DMS 155 Clinical Education I** 0-2-4-8 **Prerequisites:** DMS 164

This course is a supervised clinical experience and practice designed to introduce the student to the diagnostic ultrasound department.

### **DMS 164 Intro to Clinical Education** 0-6-2

This course is a supervised clinical experience and practice designed to introduce the student to the Diagnostic Ultrasound Department.

### **DMS 166 Advanced Clinical Education** 0-21-7 **Prerequisites:** DMS 155

This course is supervised clinical experience and practice designed to continue and advance the student's ultrasound scanning skills and techniques.

### **DMS 167 Imaging Practicum** 0-2-4-8 **Prerequisites:** DMS 165 or DMS 166

This course is supervised clinical experience and practice designed to continue and advance the student's ultrasound scanning skills and techniques. This clinical course also provides an opportunity for students to explore advancements in sonography.