

# DMSC

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## Courses

### **DMSC 120 Cardiovascular Sonography**

**3 Credits. 3 Lecture Hours. 0 Lab Hour.**

A course on cardiovascular scanning techniques and the operation of ultrasound systems. Topics include: professional standards and behaviors, basic ultrasound machine controls, scan planes, demonstration of appropriate imaging, and use of descriptive terminology associated with cardiac and vascular studies.

Prerequisites: None

View Sections ([http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course\\_number=120subject\\_code=DMSC](http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course_number=120subject_code=DMSC))

### **DMSC 121 Cardiovascular Sonography Scan Lab 1**

**2 Credits. 0 Lecture Hour. 6 Lab Hours.**

A course on developing skills in the scanning techniques and protocols related to cardiac and vascular structures and physiology.

Prerequisites: None

View Sections ([http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course\\_number=121subject\\_code=DMSC](http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course_number=121subject_code=DMSC))

### **DMSC 122 Cardiovascular Sonography Scan Lab 2**

**2 Credits. 0 Lecture Hour. 6 Lab Hours.**

A continuation of DMSC 121, emphasizing increased experience using scanning techniques and protocols related to cardiac and vascular structures and physiology.

Prerequisites: DMSC 121 (minimum grade C)

View Sections ([http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course\\_number=122subject\\_code=DMSC](http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course_number=122subject_code=DMSC))

### **DMSC 131 Vascular Sonography 1**

**3 Credits. 3 Lecture Hours. 0 Lab Hour.**

A course on theory and principles of vascular sonography. Topics include: vascular anatomy and physiology; etiology of pathologies; imaging techniques and protocols; and detecting and differentiating abnormalities, pathologies, and other deviations from normal development.

Prerequisites: DMSC 120, DMSC 121 (minimum grade C for both)

View Sections ([http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course\\_number=131subject\\_code=DMSC](http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course_number=131subject_code=DMSC))

### **DMSC 141 Echocardiography 1**

**3 Credits. 3 Lecture Hours. 0 Lab Hour.**

A course on theory and principles of adult cardiac sonography. Topics include: cardiac anatomy and physiology; etiology of pathologies; imaging techniques and protocols; and detecting and differentiating abnormalities, pathologies, and other deviations from normal development.

Prerequisites: DMSC 120, DMSC 121 (minimum grade C for both)

View Sections ([http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course\\_number=141subject\\_code=DMSC](http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course_number=141subject_code=DMSC))

### **DMSC 198 First Year Special Topics in Diagnostic Medical Sonography - Cardiovascular**

**1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A course on selected topics related to Diagnostic Medical Sonography - Cardiovascular, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

View Sections ([http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course\\_number=198subject\\_code=DMSC](http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course_number=198subject_code=DMSC))

### **DMSC 199 First Year Independent Project in Diagnostic Medical Sonography - Cardiovascular**

**1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A project related to Diagnostic Medical Sonography - Cardiovascular that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Diagnostic Medical Sonography - Cardiovascular faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

View Sections ([http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course\\_number=199subject\\_code=DMSC](http://webapps.cincinnati-state.edu/wwwTools/MCL/default.aspx?course_number=199subject_code=DMSC))

**DMSC 223 Cardiovascular Sonography Scan Lab 3**

**2 Credits. 0 Lecture Hour. 4 Lab Hours.**

A continuation of DMSC 122, emphasizing increased skills and experience using scanning techniques and protocols related to cardiac and vascular structures and physiology.

Prerequisites: DMSC 122 (minimum grade C)

View Sections ([http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course\\_number=223subject\\_code=DMSC](http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=223subject_code=DMSC))

**DMSC 224 Cardiovascular Sonography Scan Lab 4**

**2 Credits. 0 Lecture Hour. 4 Lab Hours.**

A sonography scan lab course designed to allow students to demonstrate required competencies and proficiencies required prior to completion of the program.

Prerequisites: DMSC 223

View Sections ([http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course\\_number=224subject\\_code=DMSC](http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=224subject_code=DMSC))

**DMSC 225 Cardiovascular Sonography Scan Lab 5**

**1 Credit. 0 Lecture Hour. 2 Lab Hours.**

A sonography scan lab course designed to allow students to demonstrate required competencies and proficiencies required prior to completion of the program

Prerequisites: DMSC 224

View Sections ([http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course\\_number=225subject\\_code=DMSC](http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=225subject_code=DMSC))

**DMSC 232 Vascular Sonography 2**

**3 Credits. 3 Lecture Hours. 0 Lab Hour.**

A continuation of DMSC 131, with additional information on theory and principles of vascular sonography.

Prerequisites: DMSC 131 (minimum grade C)

View Sections ([http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course\\_number=232subject\\_code=DMSC](http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=232subject_code=DMSC))

**DMSC 242 Echocardiography 2**

**3 Credits. 3 Lecture Hours. 0 Lab Hour.**

A continuation of DMSC 141, with additional information on theory and principles of adult cardiac sonography.

Prerequisites: DMSC 141 (minimum grade C)

View Sections ([http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course\\_number=242subject\\_code=DMSC](http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=242subject_code=DMSC))

**DMSC 245 Cardiovascular Specialties**

**2 Credits. 1 Lecture Hour. 2 Lab Hours.**

A course on advanced procedures and emerging technologies in the field of cardiovascular ultrasound.

Prerequisites: DMSC 232, DMSC 242 (minimum grade C for both)

View Sections ([http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course\\_number=245subject\\_code=DMSC](http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=245subject_code=DMSC))

**DMSC 250 Cardiovascular Imaging Seminar**

**2 Credits. 2 Lecture Hours. 0 Lab Hour.**

A course on integration of concepts and clinical applications in cardiovascular sonography. Topics include: current trends and advanced cardiovascular procedures and technologies, transition to an entry-level cardiovascular sonography position, mock registry examinations, and preparation for national credentialing examinations.

Prerequisites: DMSC 224, DMSC 232, and DMSC 242 (minimum grade C for all)

View Sections ([http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course\\_number=250subject\\_code=DMSC](http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=250subject_code=DMSC))

**DMSC 281 Cardiovascular Clinical 1**

**3 Credits. 0 Lecture Hour. 24 Lab Hours.**

Students participate in supervised practice of cardiac and vascular diagnostic ultrasound procedures in hospitals, clinics, and private physician offices. Students are evaluated on professional behavior and performance, and clinical competency.

Prerequisites: DMSC 122, DMSC 131, DMSC 141 (minimum grade C for all)

View Sections ([http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course\\_number=281subject\\_code=DMSC](http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=281subject_code=DMSC))

**DMSC 282 Cardiovascular Clinical 2**

**3 Credits. 0 Lecture Hour. 24 Lab Hours.**

A continuation of DMSC 281. Students participate in supervised practice of cardiac and vascular diagnostic ultrasound procedures in hospitals, clinics, and private physician offices.

Prerequisites: DMSC 281

View Sections ([http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course\\_number=282subject\\_code=DMSC](http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=282subject_code=DMSC))

**DMSC 283 Cardiovascular Clinical 3****4 Credits. 0 Lecture Hour. 32 Lab Hours.**

A continuation of DMSC 282. Students participate in supervised practice of cardiac and vascular diagnostic ultrasound procedures in hospitals, clinics, and private physician offices.

Prerequisites: DMSC 282

View Sections ([http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course\\_number=283subject\\_code=DMSC](http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=283subject_code=DMSC))

**DMSC 298 Second Year Special Topics in Diagnostic Medical Sonography - Cardiovascular****1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A course on selected topics related to Diagnostic Medical Sonography - Cardiovascular, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

View Sections ([http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course\\_number=298subject\\_code=DMSC](http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=298subject_code=DMSC))

**DMSC 299 Second Year Independent Project in Diagnostic Medical Sonography - Cardiovascular****1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A project related to Diagnostic Medical Sonography - Cardiovascular that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Diagnostic Medical Sonography - Cardiovascular faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

View Sections ([http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course\\_number=299subject\\_code=DMSC](http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=299subject_code=DMSC))