

DMS

Courses

DMS 100 Survey of Sonography

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on foundation concepts in the field of medical sonography. Topics include: the role of the sonographer in the healthcare setting, ultrasound system controls and functions, image production and display, and basic ultrasound physics.

Prerequisites: BIO 151, MCH 101 (minimum grade C for both)

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=100subject_code=DMS)

DMS 111 Sonographic Principles and Instrumentation 1

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on principles of physics in relation to ultrasound function and instrumentation. Topics include: characteristics of sound energy; using ultrasound in imaging; and waveforms, propagation, velocity, wavelength, acoustic impedance, reflection, and other types of interaction with tissue.

Prerequisites: MAT 150, and DMS Program Chair consent

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=111subject_code=DMS)

DMS 112 Sonographic Principles and Instrumentation 2

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A continuation of DMS 111. Topics include: integrating knowledge of physics with instrumentation theory and applications; understanding advanced signal processing, complex instrumentation, recording devices, biological effects, hemodynamics, Doppler principles, and quality control methods; and producing high quality diagnostic images.

Prerequisites: DMS 111

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DMS 198 First Year Special Topics in Diagnostic Medical Sonography

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

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

Prerequisites: None

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DMS 199 First Year Independent Project in Diagnostic Medical Sonography

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

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

Prerequisites: Vary by section

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DMS 255 Ethics and Medical Law in Sonography

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on ethical and legal issues related to the sonography profession. Topics include: laboratory accreditation, professional education, and research standards and practices.

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

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DMS 298 Second Year Special Topics in Diagnostic Medical Sonography

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

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

Prerequisites: None

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DMS 299 Second Year Independent Project in Diagnostic Medical Sonography

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

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

Prerequisites: Vary by section

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=299subject_code=DMS)