

Diagnostic Medical Sonography

Diagnostic Medical Sonography

The diagnostic medical sonographer is a highly-skilled professional who uses specialized equipment to create diagnostic images. The Diagnostic Medical Sonography program at Cincinnati State offers students the opportunity to become entry-level diagnostic medical sonographers in the specialty areas of **cardiac and vascular sonography (DMSC)** or **abdominal, obstetrics, and gynecological sonography (DMSG)**.

Program graduates earn an Associate of Applied Science degree that includes a balance of general education and sonography courses. The program also includes supervised clinical experience on site at various health care facilities in the Greater Cincinnati area.

The program is a five semester (20 months) curriculum and includes unpaid clinical experiences. Courses in this program are scheduled primarily between 8:00 a.m. and 5:00 p.m., Monday through Friday.

The program is accredited by The Commission of Accreditation of Allied Health Education Programs (www.caahep.org (<http://www.caahep.org>)) 1361 Park Street, Clearwater, FL 33756, phone (727) 210-2350.

Upon successful completion of the program, graduates are eligible to take the American Registry of Diagnostic Medical Sonographers national certification examinations.

Diagnostic Medical Sonography—Cardiovascular (DMSC)

All degree-seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.

Program Prerequisites: BIO 152 Anatomy and Physiology 2, DMS 100 Survey of Sonography, MCH 101 Medical Terminology 1, MCH 138 Patient Care Skills or MCH 130 Nurse Aide Training, MAT 150 Intermediate Algebra, PHY 110 Health Physics.

Students seeking admission to the Diagnostic Medical Sonography - Cardiovascular program must complete specific progression requirements. Students should meet with their academic advisor to discuss progression eligibility and deadlines.

Semester 1	Lec	Lab	Credits
DMS 111	Sonographic Principles and Instrumentation 1		3
DMSC 120	Cardiovascular Sonography		3
MCH 141	Electrocardiography 1		3
BIO 210	Cross Sectional Anatomy		2
ENG 101	English Composition 1		3
DMSC 121	Cardiovascular Sonography Scan Lab 1		2
Semester 2			
DMS 112	Sonographic Principles and Instrumentation 2		2
DMSC 131	Vascular Sonography 1		3
DMSC 141	Echocardiography 1		3
BIO 240	Pathophysiology		3
ENG 102	English Composition 2: Contemporary Issues		3
DMSC 122	Cardiovascular Sonography Scan Lab 2		2
Semester 3			
DMSC 223	Cardiovascular Sonography Scan Lab 3		2
DMSC 281	Cardiovascular Clinical 1		3
COMM 110	Public Speaking		3
Semester 4			
DMSC 224	Cardiovascular Sonography Scan Lab 4		2
DMSC 232	Vascular Sonography 2		3
DMSC 242	Echocardiography 2		3

DMSC 282	Cardiovascular Clinical 2			3
PSY 110	Introduction to Psychology			3
Semester 5				
DMS 255	Ethics and Medical Law in Sonography			1
DMSC 283	Cardiovascular Clinical 3			4
DMSC 225	Cardiovascular Sonography Scan Lab 5			1
DMSC 250	Cardiovascular Imaging Seminar			2
XXX XXX Humanities/Social Sciences Elective				3
Total Credits:		0	0	65

Electives

Humanities/Social Sciences Elective

Any Transfer Module course				3
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Diagnostic Medical Sonography—General Imaging (DMSG)

All degree-seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.

Program Prerequisites: BIO 152 Anatomy and Physiology 2, DMS 100 Survey of Sonography, MAT 150 Intermediate Algebra, MCH 101 Medical Terminology 1, MCH 130 Nurse Aide Training or MCH 138 Patient Care Skills, PHY 110 Health Physics.

Students seeking admission to the Diagnostic Medical Sonography - General Imaging program must complete specific progression requirements. Students should meet with their academic advisor to discuss progression eligibility and deadlines.

Semester 1		Lec	Lab	Credits
DMS 111	Sonographic Principles and Instrumentation 1			3
DMSG 121	General Imaging Sonography Scan Lab 1			2
MCH 141	Electrocardiography 1			3
BIO 210	Cross Sectional Anatomy			2
ENG 101	English Composition 1			3
DMSG 120	General Imaging Sonography			3
Semester 2				
DMS 112	Sonographic Principles and Instrumentation 2			2
DMSG 141	Obstetrics and Gynecology Sonography 1			3
DMSG 131	Abdominal Sonography 1			3
BIO 240	Pathophysiology			3
ENG 102	English Composition 2: Contemporary Issues			3
DMSG 122	General Imaging Sonography Scan Lab 2			2
Semester 3				
DMSG 223	General Imaging Sonography Scan Lab 3			2
DMSG 281	General Imaging Clinical 1			3
COMM 110	Public Speaking			3
Semester 4				
DMSG 232	Abdominal Sonography 2			3

DMSG 242	Obstetrics and Gynecology Sonography 2			3
DMSG 224	General Imaging Sonography Scan Lab 4			2
DMSG 282	General Imaging Clinical 2			3
PSY 110	Introduction to Psychology			3
Semester 5				
DMSG 250	General Imaging Seminar			2
DMSG 283	General Imaging Clinical 3			4
DMSG 225	General Imaging Sonography Scan Lab 5			1
DMS 255	Ethics and Medical Law in Sonography			1
XXX XXX Humanities/Social Sciences Elective				3
Total Credits:		0	0	65

Electives

Humanities/Social Sciences Elective

Any Transfer Module course				3
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DMSC 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)

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)

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)

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)

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)

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.cincinnatiastate.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.cincinnatiastate.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.cincinnatiastate.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.cincinnatiastate.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.cincinnatiastate.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.cincinnatiastate.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.cincinnatiastate.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.cincinnatiastate.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.cincinnati.state.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.cincinnati.state.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.cincinnati.state.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)

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)

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)

DMSG Courses**DMSG 120 General Imaging Sonography****3 Credits. 3 Lecture Hours. 0 Lab Hour.**

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

Prerequisites: None

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=120subject_code=DMSG)

DMSG 121 General Imaging 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 abdominal, superficial parts, obstetrics, and gynecological structures and physiology.

Prerequisites: None

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=121subject_code=DMSG)

DMSG 122 General Imaging Sonography Scan Lab 2

2 Credits. 0 Lecture Hour. 6 Lab Hours.

A continuation of DMSG 121, emphasizing increased experience using scanning techniques and protocols related to abdominal, superficial parts, obstetrics, and gynecological structures and physiology.

Prerequisites: DMSG 121 (minimum grade C)

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=122subject_code=DMSG)

DMSG 131 Abdominal Sonography 1

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on theory and principles of abdominal and superficial parts sonography. Topics include: normal and abnormal etiology, diagnostic techniques and correlation with clinical tests, scanning techniques and protocols, and detection of abnormalities and pathologies.

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

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=131subject_code=DMSG)

DMSG 141 Obstetrics and Gynecology Sonography 1

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on theory and principles of obstetrical and gynecological sonography. Topics include: normal and abnormal etiology; diagnostic techniques related to gynecology and fetal development; scanning techniques and protocols; and detecting abnormalities, pathologies, and other deviations from normal development.

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

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=141subject_code=DMSG)

DMSG 198 First Year Special Topics in Diagnostic Medical Sonography - General Imaging

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

A course on selected topics related to Diagnostic Medical Sonography - General Imaging, 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.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=198subject_code=DMSG)

DMSG 199 First Year Independent Project in Diagnostic Medical Sonography - General Imaging

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

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

Prerequisites: None

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=199subject_code=DMSG)

DMSG 223 General Imaging Sonography Scan Lab 3

2 Credits. 0 Lecture Hour. 4 Lab Hours.

A continuation of DMSG 122, emphasizing increased experience using scanning techniques and protocols related to abdominal, superficial parts, obstetrics, and gynecological structures and physiology.

Prerequisites: DMSG 122 (minimum grade C)

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=223subject_code=DMSG)

DMSG 224 General Imaging Sonography Scan Lab 4

2 Credits. 0 Lecture Hour. 4 Lab Hours.

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

Prerequisites: DMSG 223

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=224subject_code=DMSG)

DMSG 225 General Imaging 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: DMSG 224

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=225subject_code=DMSG)

DMSG 232 Abdominal Sonography 2**3 Credits. 3 Lecture Hours. 0 Lab Hour.**

A continuation of DMSG 131, with additional information on theory and principles of abdominal and superficial parts sonography.

Prerequisites: DMSG 131 (minimum grade C)

View Sections (http://webapps.cincinnati.edu/Tools/MCL/default.aspx?course_number=232subject_code=DMSG)**DMSG 242 Obstetrics and Gynecology Sonography 2****3 Credits. 3 Lecture Hours. 0 Lab Hour.**

A continuation of DMSG 141, with additional information on theory and principles of obstetrical and gynecological sonography.

Prerequisites: DMSG 141 (minimum grade C)

View Sections (http://webapps.cincinnati.edu/Tools/MCL/default.aspx?course_number=242subject_code=DMSG)**DMSG 245 General Imaging Specialties****2 Credits. 1 Lecture Hour. 2 Lab Hours.**

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

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

View Sections (http://webapps.cincinnati.edu/Tools/MCL/default.aspx?course_number=245subject_code=DMSG)**DMSG 250 General Imaging Seminar****2 Credits. 2 Lecture Hours. 0 Lab Hour.**

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

Prerequisites: DMSG 224, DMSG 232 and DMSG 242 (Minimum grade C for all)

View Sections (http://webapps.cincinnati.edu/Tools/MCL/default.aspx?course_number=250subject_code=DMSG)**DMSG 281 General Imaging Clinical 1****3 Credits. 0 Lecture Hour. 24 Lab Hours.**

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

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

View Sections (http://webapps.cincinnati.edu/Tools/MCL/default.aspx?course_number=281subject_code=DMSG)**DMSG 282 General Imaging Clinical 2****3 Credits. 0 Lecture Hour. 24 Lab Hours.**

A continuation of DMSG 281. Students participate in supervised practice of general imaging and obstetrical diagnostic ultrasound procedures in hospitals, clinics, and private physician offices.

Prerequisites: DMSG 281

View Sections (http://webapps.cincinnati.edu/Tools/MCL/default.aspx?course_number=282subject_code=DMSG)**DMSG 283 General Imaging Clinical 3****4 Credits. 0 Lecture Hour. 32 Lab Hours.**

A continuation of DMSG 282. Students participate in supervised practice of general imaging and obstetrical diagnostic ultrasound procedures in hospitals, clinics, and private physician offices.

Prerequisites: DMSG 282

View Sections (http://webapps.cincinnati.edu/Tools/MCL/default.aspx?course_number=283subject_code=DMSG)**DMSG 298 Second Year Special Topics in Diagnostic Medical Sonography - General Imaging****1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A course on selected topics related to Diagnostic Medical Sonography - General Imaging, 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.edu/Tools/MCL/default.aspx?course_number=298subject_code=DMSG)

DMSG 299 Second Year Independent Project in Diagnostic Medical Sonography - General Imaging

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

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

Prerequisites: None

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=299subject_code=DMSG)

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.cincinnatistate.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.cincinnatistate.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

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=112subject_code=DMS)

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

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=198subject_code=DMS)

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

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=199subject_code=DMS)

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)

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=255subject_code=DMS)

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

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=298subject_code=DMS)

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)