DMU 1000: Introduction to Diagnostic Medical Ultrasound
Introduction to the profession of diagnostic medical ultrasound. Imaging characteristics, educational requirements, professional trends. Observation opportunities. Graded on S/U basis only.
Credit Hour: 1
Prerequisites: Departmental consent required

DMU 3212: Sectional Anatomy
A study of human anatomy using the sectional approach; anatomical structures will be related to modern medical imaging techniques. Graded on A-F basis only.
Credit Hours: 3
Prerequisites: Restricted to Diagnostic Medical Ultrasound students

DMU 3309: Normal Ultrasound Clinical
Integration of ultrasound instrumentation and clinical practice in a laboratory setting. Interaction between the sonographer, equipment and patient.
Credit Hours: 5
Prerequisites: Restricted to Diagnostic Medical Ultrasound students

DMU 3313: Ultrasound Physics
Principles of diagnostic ultrasound physics. Sound wave characteristics, tissue interaction, power intensity, and Doppler physics.
Credit Hours: 3
Prerequisites: Restricted to Diagnostic Medical Ultrasound students

DMU 3315: Ultrasound Instrumentation
Integration of ultrasound physics and instrumentation components in a laboratory setting. Practice in modes of operation and safety.
Credit Hours: 3
Prerequisites: Restricted to Diagnostic Medical Ultrasound students

DMU 3322: Superficial Organs Ultrasound
Ultrasound evaluation and diagnosis of normal and abnormal superficial organs; thyroid gland, testes, breasts, soft tissues and musculoskeletal.
Credit Hours: 3
Prerequisites: Restricted to Diagnostic Medical Ultrasound students

DMU 4001: Topics in Diagnostic Medical Ultrasound
Organized study of selected topics in medical ultrasound. Topics may vary. May be repeated for credit. Graded on A-F basis only.
Credit Hour: 1-99
Prerequisites: restricted to Diagnostic Medical Ultrasound undergraduate students

DMU 4001W: Topics in Diagnostic Medical Ultrasound - Writing Intensive
Organized study of selected topics in medical ultrasound. Topics may vary. May be repeated for credit. Graded on A-F basis only.
Credit Hour: 1-99
Prerequisites: restricted to Diagnostic Medical Ultrasound undergraduate students

DMU 4085: Problems in Diagnostic Medical Ultrasound
Independent study leading to a special project or paper. May be repeated for credit. Graded on A-F basis only.
Credit Hour: 1-99
Prerequisites: restricted to Diagnostic Medical Ultrasound undergraduate students only

DMU 4085W: Problems in Diagnostic Medical Ultrasound - Writing Intensive
Independent study leading to a special project or paper. May be repeated for credit. Graded on A-F basis only.
Credit Hour: 1-99
Prerequisites: restricted to Diagnostic Medical Ultrasound undergraduate students only

DMU 4200: Principles of Diagnostic Medical Ultrasound
Principles and history of ultrasound, ultrasound equipment, sonographic techniques, aspects of patient care.
Credit Hours: 3
Prerequisites: Restricted to Diagnostic Medical Ultrasound students only

DMU 4234: Clinical Pathophysiology
Abnormal function of organ systems in the presence of disease; clinical manifestations and medical management.
Credit Hours: 3

DMU 4234W: Clinical Pathophysiology - Writing Intensive
Abnormal function of organ systems in the presence of disease; clinical manifestations and medical management.
Credit Hours: 3

DMU 4311: Pathological Images of Ultrasound
Disease presentation in ultrasound imaging. Practical aspects of ultrasound scanning techniques in pathology.
Credit Hours: 3

DMU 4314: Abdominal Ultrasound
Differentiation between normal and pathological ultrasound studies of the abdomen. Differential diagnosis of pathological states.
Credit Hours: 5
Prerequisites: Restricted to Diagnostic Medical Ultrasound students
DMU 4318: Gynecology Ultrasound
Credit Hours: 3
Prerequisites: Restricted to Diagnostic Medical Ultrasound students

DMU 4320: Obstetrics Ultrasound
Study of normal and abnormal obstetrical ultrasound anatomy. Distinction between normal and pathological OB ultrasound studies with emphasis on differential diagnosis.
Credit Hours: 3
Prerequisites: Restricted to Diagnostic Medical Ultrasound students

DMU 4326: Vascular Ultrasound Physics, Instrumentation and Hemodynamics
Study of vascular principles and fundamentals including physics and instrumentation. Emphasis on ultrasound wave characteristics, Doppler principles, tissue interaction and hemodynamics.
Credit Hours: 3
Prerequisites: Restricted to Diagnostic Medical Ultrasound students

DMU 4330: Vascular Ultrasound Lab
Vascular ultrasound scanning techniques, protocols, measurements, film/video critique, and Plethysmography in a clinical lab setting.
Credit Hours: 3
Prerequisites: Restricted to Diagnostic Medical Ultrasound students

DMU 4332: Vascular Ultrasound
Vascular ultrasound for normal and pathological processes: study of disease, correlation of patients' clinical data and ultrasound findings used in differential diagnosis.
Credit Hours: 4
Prerequisites: Restricted to Diagnostic Medical Ultrasound students

DMU 4342: Adult Cardiac Ultrasound
Provides principles of diagnostic adult cardiac ultrasound in relation to pathology, further presenting the practical aspects of scanning techniques, exam critique, patient care in relation to cardiac US exams. Graded on A-F basis only.
Credit Hours: 5

DMU 4944: Vascular Ultrasound Clinical IV
Application of diagnostic vascular ultrasound in supervised clinical settings: practice, decision making, patient handling and image processing.
Credit Hours: 7
Prerequisites: Restricted to Diagnostic Medical Ultrasound students

DMU 4945: Cardiac Ultrasound Clinical V
Application of ultrasonography in real clinical settings for learning, practicing and decision making regarding, patient handling and imaging process with students supervised in a clinical setting. Graded on A-F basis only.
Credit Hours: 6
Prerequisites: DMU 3313, DMU 3315, and DMU 4944. Instructor and Departmental permission required

DMU 4946: Cardiac Ultrasound Clinical VI
Further application of ultrasonography for continuation of learning, practicing and decision making, patient handling and imaging process with students supervised in a clinical setting. Graded on A-F basis only.
Credit Hours: 6
Prerequisites: DMU 3313, DMU 3315, DMU 4338 and DMU 4945. Instructor and Departmental permission required

DMU 4993: Ultrasound Clinical II
Application of medical ultrasound in supervised clinical settings with practice and decision making related to ultrasound diagnosis, patient handling and image processing.
Credit Hours: 8
Prerequisites: Restricted to Diagnostic Medical Ultrasound students

DMU 8001: Topics in Diagnostic Medical Ultrasound
Organized study of selected topics. Topic may vary.
Credit Hour: 1-3
Prerequisites: restricted to students enrolled in the Diagnostic Medical Ultrasound program only

DMU 8085: Problems in Diagnostic Medical Ultrasound
Independent study of a special project involving clinical applications or research. Topic may vary.
Credit Hour: 1-99
Prerequisites: restricted to students enrolled in the Diagnostic Medical Ultrasound program only