

Midland College
MASTER SYLLABUS

DMSO 1101: Techniques of Medical Sonography (0-2-0)

COURSE DESCRIPTION

This course consists of scanning techniques. Topics include scan protocols and procedures within the laboratory setting utilizing live scanning and/or simulated experience.

PREREQUISITES AND/OR COREQUISITES

Admission into the program.

STUDENT LEARNING OUTCOMES

Upon successful completion of the course, the student will:

1. Demonstrate proper scanning techniques, procedures, and protocols for evaluating the area of interest using ultrasound.
2. Identify normal sonographic anatomy and recognize key anatomical landmarks.
3. Describe the steps necessary for the initiation and completion of a sonographic examination.
4. Apply ergonomic principles during scanning to reduce strain and ensure patient and sonographer safety.
5. Develop proficiency in ultrasound terminology and its application in clinical settings.
6. Explain the criteria for interpreting ultrasound scanning planes and their relevance to image acquisition.
7. Identify and describe the sonographic appearance, size, and location of the following structures:
 - **Pancreas** and its surrounding vascular landmarks.
 - **Aorta** and its branches.
 - **Inferior Vena Cava (IVC)** and commonly visualized tributaries.
 - **Liver**, including its ligaments, segments, and fissures.
 - **Biliary system**, including ducts and gallbladder.
 - **Kidneys**, including their size, location, and sonographic features.
 - **Spleen**, including its size, location, and sonographic characteristics.

STUDENT CONTRIBUTIONS, RESPONSIBILITIES, AND CLASS POLICIES

Will be provided by the instructor in the individual course syllabus. Students should contact their instructor with any questions.

EVALUATION OF STUDENTS

Will be provided by the instructor in the individual course syllabus. Students should contact their instructor with any questions.

COURSE SCHEDULE

Will be provided by the instructor in the individual course syllabus. Students should contact their instructor with any questions.

ACADEMIC INTEGRITY

Refer to Midland College's Scholastic Dishonesty and Academic Misconduct policy:

<https://www.midland.edu/about/public-info/scholastic-dishonesty.php>

NON-DISCRIMINATION STATEMENT

Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. For information and inquiries regarding Midland College's non-discrimination policies, go to: <https://www.midland.edu/about/tix/index.php>.

For further information on notice of non-discrimination, visit the ED.gov Office of Civil Rights website, or call 1 (800) 421-3481.

DISABILITY SUPPORT SERVICES

Midland College provides support services for students with disabilities through Student Services. To request accommodations, students must visit <https://www.midland.edu/services-resources/accommodation-services.php> and complete the required steps.

Accommodations are not automatic; students must apply and be approved each semester.

GRIEVANCES AND COMPLAINTS

Students are encouraged to raise concerns as early as possible. Start by speaking with your instructor. If that is not feasible, you may contact the Department Chair, followed by the Dean of Allied Health. If needed, students may proceed with the formal complaint process.

LICENSURE ELIGIBILITY NOTIFICATION

Completion of a Midland College program does not guarantee eligibility for licensure or certification exams. Eligibility is determined individually by each regulatory agency.

If you have a criminal conviction (other than minor traffic violations), a physical or mental health condition, hospitalization/treatment for chemical dependency within the past five years, or previous licensure actions, contact the relevant agency for guidance.

DIVISION OFFICE CONTACT INFORMATION