

Midland College
MASTER SYLLABUS

DMSO 2371: Pediatric Sonography (3-0-0)

COURSE DESCRIPTION

This course covers normal anatomy and physiology of the pediatric abdominal and pelvic cavities, pediatric cranium, hips and spine, and pediatric neck and thorax as related to scanning techniques, transducer selection and scanning protocols.

STUDENT LEARNING OUTCOMES

Upon successful completion of the course the student will:

1. Apply proper transducer orientation, image presentation and labeling.
2. Utilize proper medical terminology and statistics to relate findings to others.
3. Identify normal and abnormal pediatric anatomy on diagrams, photographs, models and images taken with ultrasound in multiple dimensions: sagittal, coronal, trans axial and oblique planes.
4. Correlate anatomy seen on ultrasound with other imaging modalities such as diagnostic x-ray, CT, MRI, and nuclear medicine.
5. Evaluate patient history and laboratory data as it relates to sonography.
6. Develop and implement appropriate scanning techniques using accepted protocols and additional scan planes and routines as indicated for each pediatric abnormality.
7. Utilize color flow Doppler and phase analysis to evaluate the blood flow of the organs.
8. Understand the pathogenesis and pathophysiology of common pediatric disease.

STUDENT CONTRIBUTIONS, RESPONSIBILITIES, AND CLASS POLICIES

Attendance is essential to the student's success and is outlined in the Midland College Catalog and Student Handbook, and the Sonography Program Handbook. The subject matter of the Sonography Program's curricula concerns the health and safety of the patients cared for by the Sonography students and graduates. Thus, it is critical that students are present for all class sessions in their entirety.

It is the student's responsibility to obtain notes and material covered in class during their absence.

The student is expected to participate in class discussions.

Late assignments will not be accepted and will result in a grade of zero (0).

If a quiz or exam is missed, it is the student's responsibility to arrange for the make-up quiz/exam prior to the next class date. The student may also expect an alternative method of testing for the make-up exam.

All portions of this course **MUST** be completed. Failure to complete each component of this course will result in a failing grade.

EVALUATION OF STUDENTS

Final grade will be a criterion-referenced standard percentage, not curved, composed as follows:

- **Attendance** – 5%

- **Assignments – 10%**
During this course, the student will complete assignments including, but not limited to:
 - Registry review questions
 - Online comprehension quizzes
 - Online worksheets and/or review assignments
 - Case Study assignments

- **Quizzes – 20%**
Weekly quizzes will be cumulative, with a majority of the content over the most recent lecture. Multiple quizzing formats will be utilized.

- **Exams – 35%**
Each exam will be cumulative, constructed from a random sample of the material presented prior to the exam date. Multiple testing formats may be utilized.

- **Final Exam – 30%**
The final exam will consist of 100 multiple choice questions and will be similar to the format utilized by the registry. The exam will be cumulative, consisting of a random sample of material presented during the semester.

COURSE SCHEDULE

Class will meet for three hours every week except for scheduled Midland College holidays. See attached class schedule for topics to be covered each lecture, quiz and exam schedule.

ADVISING

Any student that scores below a 70 on an exam is responsible for emailing the instructor and scheduling an advising session within 24 hours of the exam review.

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. The following individual has been designated to handle inquiries regarding the nondiscrimination policies: Nicole Cooper Title IX Coordinator 3600 N. Garfield, SSC 129 Midland, Texas 79705 (432) 685-4781 ncooper@midland.edu or see Midland College's Nondiscrimination Policies. For further information on notice of non-discrimination, visit the ED.gov Office of Civil Rights website, or call 1 (800) 421-3481.

AMERICANS WITH DISABILITIES ACT (ADA) STATEMENT

Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must visit <https://www.midland.edu/services-resources/accommodation-services.php> and complete the Application for Accommodation Services located under the Apply for Accommodations tab. Services or accommodations are not automatic, each student must apply and be approved to receive them. All documentation submitted will be reviewed and a “Notice of Accommodations” letter will be sent to instructors outlining any reasonable accommodations. For more information or questions, please contact Bradley Gwatney at bgwatney@midland.edu or (432) 685-6468

GRIEVANCES AND COMPLAINTS

Concerns should be expressed as soon as possible to allow for early resolution. Midland College encourages students to discuss their concerns with their instructor first. If you feel uncomfortable discussing your situation with your instructor, students can discuss their concerns with the Department Chair first, then the Interim Dean of Allied Health. If a resolution is still not possible, students may proceed with the formal complaint process.

LICENSURE ELIGIBILITY NOTIFICATION

Completion of Midland College degrees and/or certificates does not guarantee eligibility to take a certification/registry/licensure examination. The eligibility of each person is determined on an individual basis by the regulatory body of the specific discipline. If you have a conviction of a crime other than a minor traffic violation, physical or mental disability/illness, hospitalization/treatment for chemical dependency within the past five years, current intemperate use of drugs or alcohol or a previous denial of a licensure or action by a licensing authority, you will need to contact the specific regulatory body for an individual ruling. Some programs require a criminal background check and urine drug screen.

OTHER CONTACT INFO

Interim Dean, Allied Health: Brandi Havner, RDMS, Office: DFHS 104, Phone: 432-685-6440

Midland College Police: 432-685-4734