

**Midland College**  
**MASTER SYLLABUS**

**DMSO 2305: Sonography of Obstetrics/Gynecology (2-2-0)**

**COURSE DESCRIPTION**

This course is a detailed study of the pelvis and obstetrics/gynecology as related to scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols. Prerequisites: DMSO 1405

**STUDENT LEARNING OUTCOMES**

Upon successful completion of the course, the student will demonstrate competency in the sonographic evaluation of gynecology and obstetrical structures imaged with ultrasound, including image production, interpretation, examination protocols, anatomy, pathophysiology and accessory testing.

Competency in the following will be included:

1. Explain maternal physiology as it occurs prior to fertilization
2. Describe the embryological development of the fetus, the fetal membranes and placenta
3. Define and describe appropriate patient communication, patient preparation, obtaining patient history and clinical indications for the obstetrical/gynecological ultrasound exam.
4. Identify normal pelvic anatomy on diagrams, photographs, models and images taken with diagnostic x-rays, CT, MRI or ultrasound in multiple dimensions: sagittal, coronal, trans-axial and oblique planes
5. List and describe the various methods of fetal dating, stage of fetal development that are indicated, the normal ranges of the common obstetrical measurements and their implication to fetal well-being.
6. Identify and describe multiple gestations and their implications to fetal well being

**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, as well as the Sonography Student 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.

Because of this and the amount of information delivered in lecture and lab sessions, 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.
- Reading and workbook assignments should be completed prior to lectures for each unit.
- Material from reading/workbook, which is not covered in class, may appear on tests.

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

Missed quizzes and exams will be accepted, with the loss of one letter grade per scheduled class day that it is late.

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: 5% from attendance, 5% from class participation, 10% from journal article, labs and computer-aided instruction, 20% from quizzes, 25% from exams, and 35% from the final examination.

**Assignments:**

During this course, the student will complete assignments including, but not limited to:

- Case Study assignments
- Journal Articles
- Worksheets
- Lab assignments including, but not limited to, computer-aided instruction and scan-lab assignments

**Quizzes:**

Weekly quizzes will be given over content including, but not limited to exam protocols, material covered throughout unit, and normal and abnormal sonographic images. Multiple quizzing formats will be utilized.

**Exams:**

Each exam will be constructed from a random sample of the material presented prior to the exam date. Multiple testing formats may be utilized.

**Final Exam:**

The final exam will consist of 100-200 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. Students must have an average above 70% on their unit exams to be eligible to sit for the final exam. Ineligibility to sit for the final examination will result in a grade of zero on the final exam.

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.

**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. Lab will meet every week for four hours except for Midland College holidays.

**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](mailto: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 Shep Grinnan, Counselor at [sgrinnan@midland.edu](mailto:sgrinnan@midland.edu) or 432-685-4505.

**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 Associate Dean of Health Sciences. 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**

Associate Dean: Brandi Havner, RDMS | Office: DFHS 104 | Phone: 432-685-6440

Midland College Police: 432-685-4734