

## **Advanced Ultrasound & Review (DMSO 2230)**



**Credit:** 2 semester credit hours (2 hours lecture, 1 hour lab)

**Prerequisite/Co-requisite:** Passed DMSO 1341, 2341, & 2342.

### **Course Description**

Knowledge, skills, and professional values within a legal and ethical framework addressing emerging technologies and professional development.

### **Required Textbook and Materials**

1. *Examination Review for Ultrasound—Abdomen & Obstetrics and Gynecology* by Steven M. Penny. 2nd edition. Wolters Kluwer publishing.
  - a. ISBN number is 13:978-1-4963-7729-6
2. A package of #882 Scantrons and #2 pencils.

### **Course Objectives**

Upon completion of this course, the student will be able to:

1. Apply problem solving and critical thinking skills in the context of professional transition.
2. Demonstrate registry preparedness.
3. Examine sonography practice with a collaborative ethical and legal framework.

### **Course Outline**

- A. Obstetrics
  1. Obstetric sonography overview
  2. The first trimester
  3. Fetal head and brain
  4. Fetal face and neck
  5. Fetal spine and musculoskeletal system
  6. Fetal heart and chest
  7. Fetal gastrointestinal system
  8. Fetal genitourinary system
  9. Chromosomal abnormalities
  10. Multiple gestations
  11. Fetal environment & maternal complications
- B. Gynecology
  1. Gynecologic sonography review
  2. Anatomy of the female pelvis
  3. The uterus and vagina
  4. The ovaries and fallopian tubes
  5. The menstrual cycle
  6. Postmenopausal sonography and sonohysterography
  7. Pelvic inflammatory diseases & infertility

## **DMSO 2230**

### **Syllabus**

- C. Abdomen
  - 1. Abdominal sonography overview
  - 2. Liver
  - 3. Gallbladder
  - 4. Bile Ducts
  - 5. Pancreas
  - 6. Spleen
  - 7. Urinary Tract
  - 8. Adrenal Glands
  - 9. Abdominal vasculature
  - 10. Gastrointestinal tract and abdominal wall
  - 11. Noncardiac chest and retroperitoneum
  - 11. Face and neck
  - 12. Male Pelvis
  - 13. Musculoskeletal imaging, breast, and superficial structures
- D. Neonatal brain
- E. Infant spine
- F. Ethical and legal framework/Emerging technologies
- G. Job resume & job searches

### **Grade Scale**

A	100-93
B	92-85
C	84-77
D	76-69 (not able to continue in sonography program)
F	68-0 (not able to continue in sonography program)

### **Course Evaluation**

Final grades will be calculated according to the following criteria:

1. Unit Tests	60%
2. Lab Assignments	20%
3. Course Assignments	20 %

### **Course Policies**

1. No food, drinks, or use of tobacco products in class.
2. Beepers, telephones, headphones, and any other electronic devices must be turned off while in class.
3. Do not bring children to class.
4. No late assignments will be accepted. Missed in-class assignments receive a grade of zero.

## **DMSO 2230**

### **Syllabus**

5. Attendance Policy: Students are expected to be in class unless prior arrangements have been made. Absences must be limited to serious illness and/or immediate family emergencies. Unexcused absences are not allowed. Three (3) lecture absences will result in a letter grade reduction. Two (2) lab absences will result in a 10 point grade reduction from the overall lab average. Excessive tardiness (more than 10 minutes/class or more than 2 consecutive classes) will result in an absence being awarded. In the event that LIT is forced to cancel classes due to inclement weather, DMS classes and clinical rotation will also be canceled. Notification of closures will be made through local radio and TV stations. Students out of the immediate broadcast area should contact the Program Director for information. It is extremely important that students communicate with the faculty regarding absences by telephone and/or email at all times.
  
6. All exams will be on the dates specified unless the instructor makes a change. In case of an absence on exam day, the student will have a 10 point reduction on his/her test score. The score will continue to drop 10 points for every class day missed following the test. Also, if the student attends any sonography classes on test day, he/she must take the test that day or a zero will be given.
  - a. Only exceptions that will be considered will be for the following: student illness with accompanying documentation from a student's physician, family emergency, or a documented registry test day. Only one exception will be considered for the semester (excluding registry test day).
  
7. If you wish to drop a course, the student is responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an 'F' in the course.
  
8. It shall be considered a breach of academic integrity (cheating) to use or possess on your body any of the following devices during any examination unless it is required for that examination and approved by the instructor: Cell phone, smart watch/watch phone, laptop, tablet, electronic communication devices (including optical), and earphones connected to or used as electronic communication devices.
  - a. Cheating on any (lecture/lab) exam results in immediate dismissal from the program and an F for the course.

***Please see the Sonography Student Handbook for program specific policies.***

## DMSO 2230 Syllabus

### **Disabilities Statement**

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator, (409) 880-1737 or visit the office located in the Cecil Beeson Building. You may also visit the online resource at <http://www.lit.edu/depts/stuserv/special/defaults.aspx>.

### **Student Code of Conduct Statement**

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at [www.lit.edu](http://www.lit.edu) or obtained in print upon request at the Student Services Office. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

### **Starfish**

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

