

## DMSO 2230 Advanced Ultrasound & Review

### CREDIT

2 Semester Credit Hours (2 hours lecture; 1 hour lab)

### MODE OF INSTRUCTION

Face to Face

### PREREQUISITE/CO-REQUISITE:

### COURSE DESCRIPTION

Preparation for medical sonography credentialing exams. Advanced medical sonography topics such as professional development and evolving sonographic applications and practices.

### COURSE OBJECTIVES

- Apply problem solving and critical thinking skills in the context of professional transition.
- Demonstrate registry preparedness.

### INSTRUCTOR CONTACT INFORMATION

Instructor:	Lacey Stinebrickner, BGS, RDMS
Email:	lfstinebrickner@lit.edu
Office Phone:	409-257-0061
Office Location:	Gateway
Office Hours:	Please see Starfish to schedule an appointment

### REQUIRED TEXTBOOK AND MATERIALS

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

Access to a computer with a webcam, for online testing purposes.

### 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. Two (2) absences will result in a letter grade reduction. Please note this is different from your other sonography classes. Excessive tardiness (more than 10 minutes/class or more than 2 consecutive classes) will result in an absence being awarded. Also, leaving class early will result in an absence.

Approved: **Initials/date**



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OF TECHNOLOGY**

- The terminology excused or not excused absence does not apply to this class. All absences are equal. Therefore, no matter the circumstances involved in the student's absence it will be counted towards the total for the semester.
- The sign in sheet will be taken up 15 minutes after class starts. If you are more than 15 minutes late to class you will be counted absent. Also, if you leave the classroom for more than 15 minutes you will be counted absent.
- When absent, the student is required to contact the instructor to obtain make-up assignment for missed class. It is the student's responsibility to make up lab assignments or a grade of zero will be given

### **DROP POLICY**

If you wish to drop a course, you are 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.

### **COURSE CALENDAR**

<b>DATE</b>	<b>TOPIC</b>	<b>READINGS (Due on this Date)</b>	<b>ASSIGNMENTS (Due on this Date)</b>
8/21	Syllabus; Resume/Job Search		
8/28	Neonatal Brain & Infant Spine/ Lab Pelvic or 1 <sup>st</sup> Trimester	Provided PowerPoints	<b><i>Menstrual Cycle PP due by 6:00 on 8/30</i></b>
9/4	Labor Day		<b><i>Resume &amp; Job Search Info Folder due by 6:00 9/6</i></b>
9/11	Anatomy of Female Pelvis/UT & Vagina Review/Lab Pelvic or 1 <sup>st</sup> Trimester	Chapter 16 & 17	<b><i>Advanced Sonographic Practices &amp; Procedures PP due by 6:00 pm 9/13</i></b>
9/18	Ovaries & Fallopian Tubes/ Pelvic Inflammatory Disease & Infertility Review		<b><i>Postmenopausal Sono &amp; Sonohysterography PP due by 6:00 9/20</i></b>
9/25	First Trimester/Fetal Head & Brain Review	Chapter 18 & 21	<b><i>TEST #1 online due by 6:00 pm (DUE BY 9/27)</i></b>
10/2	Fetal Face & Neck/Musculoskeletal System Review/ Lab Pelvic or 1 <sup>st</sup> Trimester	Chapter 23 & 24	<b><i>Multiple Gestations PP due by 6:00 pm 10/4</i></b>
10/9	Fetal Heart & Chest/ Fetal GI Review	Chapter 27 & 28	<b><i>Test #2 online due by 6:00 pm 10/8</i></b>

10/16	Fetal GU/Chromosomal Abnormalities Review/ Lab (Drills/RUQ)	Chapter 29 & 30	<b>LAB: Pelvic scan &amp; 1<sup>st</sup> Trimester OB due by 6:00 pm 10/11; Fetal Environment &amp; Maternal Complications PP due by 6:00 pm 10/18</b>
10/23	Liver/Gallbladder Review	Chapter 2 & 3	<b>Test #3 online due by 6:00 pm 10/22</b>
10/30	<b>Bile Ducts/Pancreas/Spleen Review; Lab (Drills Kidney and Spleen)</b>	Chapter 4 & 6	<b>Abdominal Vasculature PP 10/25</b>
11/6	Abdomen Scan Final Practice Drills/Complete Abdomen	Chapter 28	<b>Test #4 online due by 6:00 pm</b>
11/13	Abdomen Scan Final		<b>Musculoskeletal Imaging, Breast, &amp; Superficial Structures PP due by 6:00 pm 11/8; Abdomen Scan Final due by 6:00 pm 11/15</b>
11/27	<b>Urinary Tract/Adrenal Review</b>	Chapter 7 & 8	<b>Gastrointestinal PP – Extra Credit by 12/1 by 6:00 pm</b>
12/4	<b>Test # 5 Final Exam</b>	Chapters 7-8, 12-13	<b>Test #5 online due by 6:00 pm</b>

\* This schedule is subject to change at the discretion of the instructor.

### **COURSE EVALUATION**

Final grades will be calculated according to the following criteria:

Unit Tests	60%
Lab Assignments	20%
Course Assignments	20%

### **GRADE SCALE**

- 93-100 A
- 85-92 B
- 77-84 C
- 69-76 D
- 0-68 F

## Course Outline

### 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

### 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

### **TECHNICAL REQUIREMENTS**

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

### **DISABILITIES STATEMENT**

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email [specialpopulations@lit.edu](mailto:specialpopulations@lit.edu). You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

### **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). 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.

## **ADDITIONAL COURSE POLICIES/INFORMATION**

1. Students are to arrive promptly at the schedule lecture/lab time.
2. Student's attire should be clinical dress code when attending lab sessions.
3. Students are not allowed to eat and drink in the lab.
4. Students are expected to conduct themselves as though they are in the clinical setting. Loud talking, joking, use of foul language or any disruptive behavior will cause the student to be dismissed from the lab session and will result in a disciplinary action.
5. Students will participate in live-scanning practice/assignments. It is mandatory for each student to rotate scan partners.
6. If the student leaves the lecture/lab early an absence will be awarded.
7. Images turned in for scanning assignments must include the student's name, time and date. The student should not cropped off the images. Images not containing this information will not be given credit.
8. Images turned in on ANY assignment must be taken by that student, and again include the student's name on the image.

Noncompliance with these rules and procedures will result in disciplinary action for the student as further explained in the student handbook. Lab instructors are also required to comply with the Lab Rules and Procedures.