

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. 3rd edition. Wolters Kluwer publishing

ISBN 13:978-1-9751-8548-0

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

ATTENDANCE POLICY

Students are expected to be in class. Absences must be limited to serious illness and/or immediate family emergencies. Three (3) absences will result in a letter grade reduction. Excessive tardiness (more than 10 minutes/class or more than 2 consecutive classes) will result in an absence being awarded. **This includes lab!**

- 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.

Approved: LS 2025



**LAMAR INSTITUTE
OF TECHNOLOGY**

- 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

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
8-25	Syllabus/Resume Info Lab: RUQ Drills		
9-1	Labor Day no class		
INTERVIEW QUESTIONS ASSIGNMENT DUE BY 9/8/25 @ 11:59 ON BLACKBOARD			
9-8	Liver/Gallbladder Review	Chapters 2 & 3	Access to URR is active
9-15	Bile ducts/Pancreas/Spleen Review	Chapters 4, 5, & 6	Chapter 11 Noncardiac Chest/Retroperitoneum Quiz on Blackboard due at 11:59 PM
9-22	Urinary Tract/Adrenal Review	Chapters 7 & 8	Chapter 10 GI Tract & Abdominal Wall Quiz on Blackboard due 11:59 pm
ABDOMEN: CHAPTERS 2, 3, 4, 5, & 6 UNIT 1 EXAM DUE BY 9/22/25 @ 7:00 PM			
URR Assignment #1 – See Handout DUE BY 9/28/25 @ 11:59 PM ON BLACKBOARD			
RESUME: ROUGH DRAFT Review Materials/Instructions via Blackboard DUE BY 9/29/25 @ 11:59 PM ON BLACKBOARD			
9/29	Face and Neck/Male Pelvis	Chapters 12 & 13	Chapter 9 Abdominal Vasculature Quiz on Blackboard due by 11:59 pm
10-6	Anatomy of Female Pelvis/ UT & Vagina The Menstrual Cycle Review	Chapters 16, 17, & 19	Musculoskeletal Imaging, Breast, and Superficial Structures Quiz on Blackboard due by 11:59 PM

	Lab: 1 st Trimester/Pelvic		
ABDOMEN: CHAPTERS 7, 8, 12, & 13 UNIT II TEST DUE BY 10/6/25 @ 7:00 PM			
ABD URR Assignment #2 DUE BY 10/12/25 @ 11:59 PM ON BLACKBOARD			
10-13	Baptist Meeting with Students Lab: 1 st Trimester or Pelvic	Chapters 18 & 21	Chapter 20 Postmenopausal Sonography and Sonohysterography on Blackboard due by 11:59 PM
RESUME: FINAL DRAFT Review Materials/Instructions via Blackboard DUE BY 10/13/25 @ 11:59 PM ON BLACKBOARD			
OB/GYN: CHAPTERS 16, 17, 18, & 21 UNIT III TEST DUE BY 10/13/2025 @ 7:00 PM			
10-20	Baptist Meeting with Students Lab: 1 st Trimester or Pelvic		1st Trimester & TA Pelvic due by 11:59 pm
10-27	First Trimester/Fetal Head & Brain Lab: Abd Drills	Chapters 23 & 24	Chapter 31 Multiple Gestations On Blackboard due by 11:59 PM
URR MOCK ABD EXAM B24 284 QUESTIONS DUE BY 10/28/25 @ 11:59 PM ON BLACKBOARD			
11-3	Fetal Face & Neck/ Fetal Spine and Musculoskeletal System Lab: Pelvic or 1 st Trimester	Chapters 25 & 26	
OB/GYN: CHAPTERS 23, 24, 25 & 26 UNIT IV TEST DUE BY 11/3/2025 @ 7:00 PM			
URR OB/GYN Assignment #1 DUE BY 11/9/25 @ 11:59 PM ON BLACKBOARD			
11-10	Fetal Heart & Chest Fetal GI Review Lab: Abdomen Drills	Chapters 27 & 28	Chapter 32 Fetal Environment & Maternal Complications
11-17	Fetal GU/Chromosomal Abnormalities Review Abd Drills	Chapters 29 & 30	

URR MOCK OB/GYN ASSIGNMENT – See Handout			
DUE BY 11/17/25			
NEONATAL SPINE, HEAD, AND HIPS QUIZZES DUE BY 11/17/25 AT 11:59 PM			
QUIZZES ARE LOCATED IN BLACKBOARD			
11-24	Abdomen Scan Final Practice Drills/ Complete Abdomen		
MOCK OB/GYN EXAM B25			
279 QUESTIONS			
DUE BY 11/30/25 @ 11:59 PM ON BLACKBOARD			
12-1	Abdomen Scan Final		
12-8	OB/GYN: CHAPTERS 27, 28, 29, & 30 Unit V Test due by 7:00 PM		

* 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/Mock Exams	20%

GRADE SCALE

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

Course Outline

- 1) Abdomen
 - a) Abdominal sonography overview
 - b) Liver
 - c) Gallbladder
 - d) Bile Ducts
 - e) Pancreas
 - f) Spleen
 - g) Urinary Tract
 - h) Adrenal Glands
 - i) Abdominal vasculature
 - j) Gastrointestinal tract and abdominal wall
 - k) Noncardiac chest and retroperitoneum
 - l) Face and neck

- m) Male Pelvis
 - n) Musculoskeletal imaging, breast, and superficial structures
- 2) Obstetrics
- a) Obstetric sonography overview
 - b) The first trimester
 - c) Fetal head and brain
 - d) Fetal face and neck
 - e) Fetal spine and musculoskeletal system
 - f) Fetal heart and chest
 - g) Fetal gastrointestinal system
 - h) Fetal genitourinary system
 - i) Chromosomal abnormalities
 - j) Multiple gestations
 - k) Fetal environment & maternal complications
- 3) B. Gynecology
- a) Gynecologic sonography review
 - b) Anatomy of the female pelvis
 - c) The uterus and vagina
 - d) The ovaries and fallopian tubes
 - e) The menstrual cycle
 - f) Postmenopausal sonography and sonohysterography
 - g) Pelvic inflammatory diseases & infertility
- 4) D. Neonatal brain
- 5) E. Infant spine
- 6) F. Ethical and legal framework/Emerging technologies
- 7) 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. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](https://www.lit.edu/special-populations).

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. 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.

AI Statement

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI / ChatGPT in their courses.

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. Each student must 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 crop 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.