

DMSO 1251 Sectional Anatomy for Sonographers

CREDIT

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

MODE OF INSTRUCTION

Face to Face



**LAMAR INSTITUTE
OF TECHNOLOGY**

COURSE DESCRIPTION

Sectional anatomy of the male and female body. Includes anatomical relationships of organs, vascular structures, body planes, and quadrants.

COURSE OBJECTIVES

- Upon completion of this course, the student will be able to
 - Describe anatomical relationships
 - Identify organs and structures of the body in sectional planes
 - Identify anatomical structures in multiple imaging planes.

INSTRUCTOR CONTACT INFORMATION

Instructor: Tracy Ryals, RDMS, RVT

Email: taryals@lit.edu

Office Phone: 409-247-5130

Office Location: Gateway #115

Office Hours: Please see Starfish to schedule an appointment

REQUIRED TEXTBOOK AND MATERIALS

1. Sectional Anatomy for Imaging Professionals; 4th Ed., Kelley and Peterson
ISBN: 978-0323414876
2. Color pencils
3. Computer with webcam

ATTENDANCE POLICY

- Attendance is **mandatory**. Absences are only permitted for serious illness (with a doctor's note) or immediate family emergencies.
- **Three (3) absences** will result in a one-letter grade reduction.
 - **And a letter grade reduction on each additional absence after**
- **Excused vs. unexcused:**
 - There is no distinction—all absences count equally toward the semester total, regardless of reason.
- Tardiness of more than 10 minutes or being late for two consecutive classes will count as one absence.
- The sign-in sheet will be removed **15 minutes** after class begins. If you arrive after this time, you will be marked absent.
- Leaving class for more than 15 minutes will also result in being marked absent.

- If you are absent, **you must contact the instructor** to report the absence and are fully responsible for obtaining any missed assignments or information.

COURSE CALENDAR

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
M 06 – 02	Syllabus/Intro to Sectional Anatomy	Chapter 1 & PP	
W 06 – 04	Abdomen Part 1	Chapter 7 & PP	
M 06 – 09	Aorta Anatomy/Protocol LAB		
W 06 – 11	Unit 1 Test Abdomen Part II	Chapter 7 & PP	Test 1
M 06 – 16	LAB		
W 06 – 18	Review Test #1 Pelvis	Chapter 8 & PP	
M 06 – 23	LAB		
W 06 – 25	Unit 2 Test Cranium & Brain	Chapters 2, 3 & PPs	Test 2
M 06 – 30	LAB		
W 07 - 02	Review Test #2 Cranium & Brain	Chapters 2, 3 & PPs	
M 07 – 07	LAB		
W 07 – 09	Cranium & Brain	Chapters 2, 3 & PP's	
M 07 – 14	LAB		
W 07 – 16	Unit 3 Test Thorax	Chapter 6 & PP	Test 3
M 07 – 21	LAB		
W 07 – 23	Spine & Neck	Chapters 4, 5 & PP	
M 07 – 28	LAB		
W 07 – 30	Unit 4 Test		Test 4
M 08 – 04	LAB		
W 08 – 06	Review for Final		
M 08 – 11	LAB/SCAN FINAL		
W 08 – 13	FINAL EXAM		FINAL

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

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 EVALUATION

Final grades will be calculated according to the following criteria:

- | | |
|---------------------------------|-----|
| 1. Unit Exams | 70% |
| 2. Lab (Scanning Participation) | 15% |
| 3. Final exam | 10% |
| 4. Homework/Assignments | 5% |

GRADE SCALE

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

Course Outline

- A. Introduction to Sectional Anatomy
 - 1. Body Planes
 - 2. Regions
 - 3. Body Cavities and Spaces
- B. Cranium
 - 1. Anatomical Structures
 - 2. Sutures
 - 3. Fontanelles
- C. Facial Bones
 - 1. Nasal bones
 - 2. Maxilla
 - 3. Mandible
 - 4. Palatine bone
- D. Brain
 - 1. Meninges
 - 2. Ventricular System
 - 3. Cerebrum
 - 4. Diencephalon
 - 5. Limbic System
 - 6. Brain Stem
 - 7. Cerebrum
 - 8. Cerebral Vascular System
- E. Spine
 - 1. Vertebral Column
 - 2. Muscles
 - 3. Spinal Cord
- F. Neck
 - 1. Organs
 - 2. Muscles
 - 3. Vascular Structures
- G. Thorax
 - 1. Bony Thorax
 - 2. Lungs
 - 3. Pleural Cavities

4. Bronchi
5. Mediastinum
6. Lymphatic System
7. Heart and Vasculature
8. Great Vessels
9. Coronary Circulation
10. Azygos Venous System
11. Muscles

H. Abdomen

1. Abdominal Cavity
2. Viscera (Organs)
3. Arterial and Venous Vasculature
4. Lymph Nodes
5. Muscles of Abdominal Wall

I. Pelvis

1. Bony Structures
2. Muscles
3. Viscera (Organs)
4. Vasculature

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 \(lit.edu\)](#).

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.

ADDITIONAL COURSE POLICIES/INFORMATION

- No food, drinks, or tobacco products are allowed in class.
- Cell phones and all electronic devices must be turned off during class.
- Children are not permitted in class at any time.
- Assignments are due at the beginning of class or by the date listed in the syllabus.
- **Late work will not be accepted and will receive a grade of zero.**

Exam Policy – In-Person

- All in-person exams will be given on the dates listed unless changed by the instructor.
- **If you miss an exam:**
 - You will lose **10 points** from your test grade.
 - **An additional 10 points will be deducted for each class day** missed afterward.
 - If you attend any sonography class on the test day, you **must take the test that day** or receive a **zero**.
 - **Make-up exams** must be taken on **the first class day you return**.

Exam Policy – Online

- Online exams will be given on scheduled dates unless changed by the instructor.
- **If you miss the deadline:**
 - **10 points will be deducted every hour the exam is late**, starting from the posted due time.
 - *Example: If the exam is due at 7:00 PM and submitted at 7:01 PM, 10 points will be deducted; at 8:00 PM, 20 points, etc.*
 - After **midnight**, the exam receives a **zero**.
- All online exams will be administered through **Blackboard using LockDown Browser with Webcam and Screen Monitoring**.

LockDown Browser Instructions

- Disable all computer notifications before testing.
- Open the “LockDown Browser” from your desktop (or Applications folder on Mac).
- Close all blocked programs when prompted.
- Log in to Blackboard and begin the exam.
- Complete the **Startup Sequence**, including the webcam check and environment scan.

Online Exam Violations – Point Deductions

- **20-Point Deductions:**
 - Poor lighting in the testing environment.
 - Face is not visible always.
 - Background noise (TV, music, talking, etc.).
 - Reading questions aloud.
 - Wearing sunglasses, hats, hoodies, earbuds, or headphones (ears must remain fully visible).

****Repeat of any above violation on another exam = 50-point deduction.***

Major Violations – 50-Point Deduction or Zero

- Not in a **private location** (if another person is seen or heard).
- Use or visibility of **phones, notes, books, or papers** during the exam.
- **Leaving the room** for any reason during the exam.
- **Suspicious activity** that appears to be cheating.
- These violations may result in a **zero or 50-point deduction** at the instructor’s discretion.

Academic Integrity Policy

- It is considered **cheating** to use or possess the following items during any exam (unless approved for use):
- Cell phones, smart watches, laptops, tablets, earphones, or any communication device.
- **Cheating on any lecture or lab exam will result in:**
- **Immediate dismissal** from the program.
- A final course grade of **F**.

Testing Tips (Online Exams)

- Use **Google Chrome** as your browser.
- You must have a **webcam and microphone** connected.
- Be prepared to **scan your testing area**. If you can't move your computer, use a **mirror** to show your surroundings.

Important Notes

- **You are responsible** for following all testing requirements.
- Completing the **verified signature** portion of the exam confirms your agreement to follow all rules.
- **No extra credit** is given in this course.
- **You are allowed ONE test reset per semester. No exceptions.**