



Sonographic Sectional Anatomy (DMSO 1251)

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

Course Description

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

Prerequisite: Admission to the Diagnostic Medical Sonography Program

Co-requisite: DMSO 1110

Required Textbook and Materials

1. Sectional Anatomy for Imaging Professionals; 3rd Ed., Kelley and Peterson
ISBN: 978-0-323-08260-0
2. Color pencils
3. Scantrons

Course Objectives:

Upon completion of this course student will be able to:

1. Describe anatomical relationships
2. Identify organs and structures of the body in sectional planes.
3. Identify anatomical structures in standard and non-standard imaging planes.

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

DMSO 1251
Course Syllabus
Summer III

- 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. Vertebra 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
 - 12. Breast
- 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

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:

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

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.
5. If a unit test is missed, arrangements must be made with the instructor to take the test in a timely manner. If no arrangements are made, the student will be expected to take the exam on the day of return.
6. Attendance Policy. Absences must be limited to serious illness and/or immediate family emergencies. Unexcused absences are not allowed. 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. 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 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.
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.
9. Students must respect one another and all faculty.
10. Students must provide their own textbooks, writing instruments, and other necessary supplies for class.
11. Any exam grade less than a 77 is unacceptable and will result in student being placed on academic probation.
12. Please refer to the Diagnostic Medical Sonography Handbook for further policies.

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 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.

