

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



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

**Prerequisite/Co-requisite:** Passed DMSO 1441, 2441, & 2442.

### **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. Lippincott Williams & Wilkins Publishers.
  - a. ISBN number is 13:978-0-7817-7978-4.
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
- B. Gynecology
  1. Gynecologic sonography review
  2. Anatomy of the female pelvis
  3. The uterus and vagina
  4. The ovaries and fallopian tubes
  5. Postmenopausal sonography and sonohysterography
- C. Abdomen
  1. Abdominal sonography overview
  2. Liver
  3. Gallbladder
  4. Bile Ducts

Approved 1/2014

## **DMSO 2230**

### **Course Syllabus**

5. Pancreas
6. Spleen
7. Urinary Tract
8. Adrenal Glands
9. Abdominal vasculature
10. Gastrointestinal tract
11. Neck
12. Male Pelvis

### **Grade Scale**

93 – 100	A
92-85	B
84-75	C
70 – 74 (not passing)	D

### **Course Evaluation**

Final grades will be calculated according to the following criteria:

1. Unit Tests	50%
2. Lab Assignments	20%
3. Course Assignments	10%
4. Course Project	10%
5. Davies Review	10%

### **Course Requirements**

1. Unit Exams
2. Lab Assignments
3. Course Assignments
4. Davies review
5. Course Project

### **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.

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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. Cheating on any (lecture/lab) assignment or exam results in immediate dismissal from the program and an "F" for the course.

### 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 at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building.

### Course Schedule

Week	Topic	Reference
Week 1	Syllabi Fetal Heart & Thorax	Ch. 27
Week 2	Labor Day Fetal GI/GU	Ch. 28/29
Week 3	Fetal Spine & Musculoskeletal TEST	Ch. 26
Week 4	Fetal Head & Brain Face & Neck/ 1 <sup>st</sup> Trimester	Ch. 24 Ch. 25/23
Week 5	1 <sup>st</sup> Trimester Review/Scan	Ch. 23
Week 6	TEST/Scan Female Pelvis/UT & Vagina	
Week 7	OV & Fallopian Tubes	Ch. 18

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<b>Week</b>	<b>Topic</b>	<b>Reference</b>
	OV & Fallopian Tubes/PID	Ch. 18/21
Week 8	TEST/Scan Review Exercise	
Week 9	Liver Liver/GB/Bile Ducts	Ch. 2 Ch. 2/3/4
Week 10	Review/Scan TEST/Scan	
Week 11	Pancreas/Spleen Abdominal Vasculature/GI Tract	Ch. 5/6 Ch. 9/10
Week 12	Noncardiac Chest/Neck Male Pelvis/Musculoskeletal	Ch. 11/12 Ch. 13/14
Week 13	TEST/Scan Scan	
Week 14	Presentations	
Week 15	Davies Review	

**Contact Information:**

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