

Course Prefix/Number/Title: DMS-231 OB/GYN Ultrasound I

Number of Credits: 2 semester credits

Course Description:

This course is the study of the anatomy, physiology, pathology and pathophysiology of the organs and structures of the female pelvic cavity as visualized by sonography, including the application of Doppler principles. The study of the anatomy, physiology, and sonographic appearance of the first trimester pregnancy and fetal development is included. This course is integrated with DMS-231L, a hands-on sonographic scanning lab that focuses on the knowledge, skills and techniques for acquisition of appropriate sonographic protocols and image optimization of the female pelvic organs, including first trimester pregnancy and fetal development. Color and spectral Doppler applications will also be applied to the appropriate anatomy.

Pre-requisites: DMS-201

Corequisites: DMS-231L

Instructor: Amy Hofmann

Office: Suite 302 5th Ave Building, Trinity Health

Office Hours: 9 AM to 2 PM Tu, Th and by appointment

Phone: 857-5620

Email: amy.hofmann@trinityhealth.org

Lecture Schedule: 12:00 – 2:00 pm Mon. September 20 to December 17 in Suite 301

Lab Schedule: 8:30 – 10:30 pm MW November 8 to December 17 in Suite 301

Textbook: Diagnostic Sonography, Hagen-Ansert, 8th Edition

Lab Manual: Trinity Health Clinical Education Handbook

Course Requirements:

Grading is based on completion of assignments, quizzes and test.

Assignments 15%

Quizzes 15%

Test 70%

Consistent with class attendance policy, the student is responsible for attending every class and for the material presented. If a student will not be attending a class, he/she must notify the Program Director prior to absence to plan for makeup time and activities.

Grading Criteria

A = 94-100% of the total points
B = 87 - 93% of the total points
C = 80 - 86% of the total points
F = <79% of the total points

Tentative Lecture Outline:

<u>WEEK</u>	<u>TOPIC</u>	<u>READING</u>
9/20	normal anatomy, physiology of female pelvis	Chpt 41
9/27		
10/4	sonographic and doppler evaluation of female pelvis	Chpt 42
10/11	“ “	
10/18	pathology of the uterus	Chpt 43
10/25	“ “	
11/1	pathology of the ovaries	Chpt 44
11/8	“ “	
11/15	“ “ quiz	
11/22	pathology of the adnexa	Chpt 45
11/29	assignment – pathology presentation	
12/6	role of ultrasound in evaluating female infertility	Chpt 46
12/13	Final test	

Course Goal and Objectives

Goal:

The goal of this course is to introduce the sonography student to the anatomy, physiology and sonographic evaluation of the female pelvis. Discussion will include transabdominal and transvaginal ultrasound imaging techniques used in gynecology.

Objectives:

1. Describe the major landmarks of the bony pelvis, pelvic organs and their functions.
2. Identify the sonographic appearance of normal female pelvic anatomy.
3. Discuss the physiology of the menstrual cycle and describe hormonal changes.
4. Describe the transabdominal and transvaginal scanning techniques and protocols used in gynecologic scanning.
5. Define pathologies discussed in course and describe their sonographic appearance.
6. Discuss infertility, treatment options and sonographic imaging of female pelvic organs.

General Education (GE) Goal and Objectives

Not applicable

Relationship to Campus Theme:

This course addresses a DMS Program theme by developing the knowledge and psychomotor scanning skill sets necessary to perform gynecologic and obstetrical sonography, utilizing the protocols and techniques that are currently used in sonographic imaging.

Classroom Policies

1. Cell phones and related devices are prohibited in the classroom at all times. It is recommended that you do not bring your cell phone or other electronic devices into the classroom or, at the very least, turn it off.
2. Food and beverages are permitted in accordance with classroom policy.
3. Be respectful of other students, instructors, and guests.

Student Email Policy

Trinity Health is increasingly dependent upon email as an official form of communication. A student's assigned email address will be the only one recognized for official mailings. The liability for missing or not acting upon important information conveyed via Trinity Health DMS Program email rests with the student.

Academic Integrity

All students are expected to adhere to the highest standards of academic integrity. Dishonesty in the classroom or laboratory and with assignments, quizzes and exams is a serious offense and is subject to disciplinary action by the Program Director. For more information, refer to the DMS Program Handbook policies.

Disabilities and Special Needs

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact the Program Director (701-857-5620) as early as possible during the beginning of the semester.