

NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY
DMS 242 - ADVANCED OBSTETRICAL & GYNECOLOGICAL SONOGRAPHY (3 CR.)

Course Description

Presents advanced study of obstetrics/gynecology with concentration on case study reviews of normal anatomy, physiology, and fetal development, including abnormal etiology and diagnostic techniques. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose

The purpose of this course is to provide students with advanced knowledge, techniques and procedures for evaluating the female pelvis and developing fetus by case study review. Students will develop an advanced knowledge base to work from on how normal and abnormal pelvic and fetal anatomy and physiology appears with ultrasound. Students will be provided with scan lab demonstration and techniques that will allow them to apply what they learn in class to live scan models.

Course Prerequisites/Co-requisites

Prerequisite is DMS 212. The student must satisfactorily complete all previous sonography courses with a grade of "C" or better.

Course Objectives

Upon completing the course, the student will be able to:

- Identify normal first and second/third trimester anatomy.
- Discuss and demonstrate the uses of ultrasound in the assessment of normal and abnormal second/third trimester conditions.
- Discuss and recognize normal placenta and related anatomy and physiology.
- Discuss and demonstrate the uses of ultrasound in the assessment of normal and abnormal placenta conditions.
- Discuss, identify and recognize obstetrical complications.
- Discuss and demonstrate the uses of ultrasound in the assessment obstetrical complication conditions.
- Identify normal amniotic fluid measurements.
- Discuss and demonstrate the uses of ultrasound in the assessment of normal and abnormal amniotic fluid conditions.
- Discuss normal infertility/endocrinology conditions and related anatomy and physiology.
- Discuss and demonstrate the uses of ultrasound in the assessment of normal and abnormal normal infertility/endocrinology conditions.
- Discuss and demonstrate the uses of ultrasound in the assessment of normal and abnormal postmenopausal conditions.
- Discuss pelvic pathology and physiology.
- Discuss and demonstrate the uses of ultrasound in the assessment normal and pelvic pathology.
- Discuss extra-pelvic pathology related anatomy and physiology.
- Identify extra-pelvic pathology anatomic conditions.
- Discuss and demonstrate the uses of ultrasound in the assessment extra-pelvic pathology

Major Topics to be Included

- a. Normal first, second and third trimester anatomy.
- b. Assessment of normal and abnormal first, second and third trimester conditions.
- c. Normal placenta and related anatomy and physiology.
- d. Normal and abnormal placenta conditions.
- e. Normal and abnormal amniotic fluid conditions.
- f. Normal and abnormal normal infertility/endocrinology conditions.
- g. Normal and abnormal postmenopausal conditions.
- h. Pelvic pathology and physiology.