

## **NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY**

### **DMS 212 - OBSTETRICAL & GYNECOLOGICAL SONOGRAPHY (3 CR.)**

#### **Course Description**

Presents the clinical applications within the sonographic specialties of obstetrics and gynecology. Includes topics of discussion on normal and abnormal sonographic patterns, related clinical symptoms and associated laboratory tests. Includes laboratory sessions on basic scanning techniques.

Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

#### **General Course Purpose**

#### **Course Prerequisites/Corequisites**

Corequisite is DMS 211. 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:

- Demonstrate the ability to employ appropriate listening and responding behaviors
- Demonstrate the ability to organize and synthesize information
- Demonstrate the ability to critically analyze course materials and apply towards other coursework in the program
- Adapt messages and behaviors to different communication contexts with verbal fluency
- Demonstrate knowledge of verbal and nonverbal communication in sending and receiving messages
- Demonstrate understanding and respect for cultural and social diversity throughout the profession
- Demonstrate knowledge and understanding of the role of the sonographer as dictated by the Sonography Scope of Practice, the Code of Ethics and HIPAA
- Identify normal first and second/third trimester anatomy
- Discuss and demonstrate the uses of ultrasound in the assessment of normal and abnormal first trimester conditions
- 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 of 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 of 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 conditions

**Major Topics to be Included**

- Indications for performing a pelvic ultrasound.
- Pelvic organs, muscles and ligaments.
- Pelvic anatomy, physiology and pathophysiology.
- Uses of ultrasound in the assessment of normal and abnormal pelvic conditions.
- Infertility/endocrinology conditions and related anatomy and physiology.
- Assessment of normal and abnormal postmenopausal conditions.
- Extra-pelvic pathology, anatomy and physiology.
- Indications for performing an obstetrical ultrasound.
- Normal first, second and third trimester anatomy.
- Normal placenta and related anatomy and physiology.
- Normal amniotic fluid measurements.
- Multiple gestations.