

# DMS 55A: OBSTETRICS I

## Foothill College Course Outline of Record

Heading	Value
<b>Units:</b>	2
<b>Hours:</b>	2 lecture, .5 laboratory per week (30 total per quarter) Laboratory meets every other week (1 hour per laboratory meeting).
<b>Prerequisite:</b>	DMS 54B.
<b>Degree &amp; Credit Status:</b>	Degree-Applicable Credit Course
<b>Foothill GE:</b>	Non-GE
<b>Transferable:</b>	CSU
<b>Grade Type:</b>	Letter Grade Only
<b>Repeatability:</b>	Not Repeatable

## Student Learning Outcomes

- Recite and apply the AIUM standards to obstetrical sonography.
- Identify normal fetal anatomy and methods of fetal dating.

## Description

Normal fetal growth and sonographic measurements with correlation to accepted standards. Development of the placenta, amniotic fluid and cord. Abnormalities, pathology and maternal complications. One-half hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

## Course Objectives

The student will be able to:

- identify normal fetal anatomy and methods of fetal dating.
- recite and apply the AIUM standards to obstetrical sonography.
- describe development of amniotic fluid, cord, placenta and causes for abnormalities.
- describe technical, psychosocial and legal topics in obstetric sonography.

## Course Content

- Normal obstetrical anatomy
  - Fetal head
  - Fetal chest
  - Fetal abdomen
  - Fetal skeletal system
  - Fetal urinary system
- Fetal dating parameters and methods
  - Fetal head measurements
  - Fetal chest measurements
  - Fetal abdomen measurements
  - Fetal skeletal system measurements
  - Fetal urinary system measurements
- Fetal assessment
  - Assessment for fetal morphology
- AIUM standards for obstetrical evaluation as published by the AIUM
- Amniotic fluid
  - Physiology of

- Volume
- Abnormalities of
- Fetal lie
- Fetal well being
  - Biophysical profile
  - Apgar score
- Placenta
  - Physiology of
  - Locations
  - Abnormalities
    - Umbilical cord
      - Normal
      - Abnormal
      - Pathology of
    - Membranes
  - Invasive procedures and intervention
    - CVS
    - AF
    - Bx
    - Aspiration
    - Laboratory tests and outcomes
  - Fetal circulation
    - Heart anatomy
    - Contrast to post delivery
    - Normal
    - Pathology of
  - LUS
    - Normal
    - Measurements
    - Abnormalities
  - Trophoblastic neoplasia
  - Technical, psychosocial, legal topics in obstetric sonography
    - The abnormal fetus
    - Technical quality of the study
    - Legal issues for obstetrics and sonography
    - Maternal bonding

## Lab Content

- The students will participate in online assessments, testing and case analysis.

## Special Facilities and/or Equipment

- DVD/TV, computer, monitor, viewboxes.
- When taught via Foothill Global Access, on-going access to computer with email software and hardware; email address.

## Method(s) of Evaluation

- Demonstration of mastery of lecture material
- Written quizzes
- Patient case studies
- Midterm
- Comprehensive final exam

## Method(s) of Instruction

- Lecture presentations
- Classroom discussions
- Canvas internet delivery

## **Representative Text(s) and Other Materials**

Stephenson, S., and J. Dmitrieva. Diagnostic Medical Sonography: Obstetrics and Gynecology. 4th ed. Philadelphia, PA: Wolters Kluwer, MD, 2018.

Hall-Terracciano, B., and S. Stephenson. Workbook for Diagnostic Medical Sonography: A Guide to Clinical Practice, Obstetrics and Gynecology. 4th ed. Philadelphia, PA: Wolters Kluwer, MD, 2018.

## **Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments**

A. Weekly reading of texts - estimated at 30 pages.

B. Complete written sections in syllabus and tests.

## **Discipline(s)**

Diagnostic Medical Technology