

# DMS 53B: DIAGNOSTIC MEDICAL SONOGRAPHY II

## Foothill College Course Outline of Record

Heading	Value
<b>Units:</b>	2
<b>Hours:</b>	2 lecture, 1 laboratory per week (36 total per quarter)
<b>Prerequisite:</b>	DMS 53A.
<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

- Recognize normal and abnormal anatomical structures.
- Describe related pathology, lab tests, and clinical symptoms

## Description

Anatomy and physiology related to major and superficial structures and organs, including sonography of abdominal organs and superficial structures. Assessment including physical, clinical symptoms, laboratory findings, and pathology, including the sonographic appearances. Scanning protocols, technical factors and image quality. One 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 and illustrate the anatomy and physiology typically examined using diagnostic sonography.
- recite the proper scanning protocol and sono characteristics.
- describe the pathology associated with the same systems and body structures as it relates to the sonographic examination.
- discuss ethical dilemmas for health care personnel when in conflict with cultural, gender, and age populations.

## Course Content

- Identify and illustrate the anatomy and physiology typically examined using diagnostic sonography
  - Kidneys
    - Anatomy
    - Physiology
    - Relevant laboratory tests
  - Spleen
    - Anatomy
    - Physiology
    - Relevant laboratory tests
  - Lymphatic system
    - Anatomy
    - Physiology
    - Relevant laboratory tests

- Superficial structures
  - Anatomy
  - Physiology
  - Relevant laboratory tests
- Lecture topic is followed by a lab exercise
- Recite the proper scanning protocol and sono characteristics
  - Kidneys
  - Spleen
  - Lymphatic system
  - Superficial structures
- Sonographic scanning protocols, characteristics, and pathology of:
  - Kidneys
  - Spleen
  - Lymphatic system
  - Superficial structures
  - Lecture topic is followed by a lab exercise
- Discuss ethical dilemmas for health care personnel when in conflict with cultural, gender, and age populations

## 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
- Midterms
- Comprehensive final exam

## Method(s) of Instruction

- Lecture presentations
- Classroom discussions
- Canvas assignments

## Representative Text(s) and Other Materials

Kawamura, D., and T. Nolan. Abdomen and Superficial Structure. 4th ed. Philadelphia, PA: Wolters Kluwer, MD, 2018.

Kawamura, D., and B. Lunsford. A Guide to Clinical Practice, Abdomen and Superficial Structure: Workbook. 4th ed. Philadelphia, PA: Wolters Kluwer, MD, 2018.

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

- Weekly reading assignments from textbooks.
- One hour per week for Canvas internet research.

## **Discipline(s)**

Diagnostic Medical Technology