

LABETTE COMMUNITY COLLEGE BRIEF SYLLABUS

SPECIAL NOTE:

This brief syllabus is not intended to be a legal contract. A full syllabus will be distributed to students at the first class session.

TEXT AND SUPPLEMENTARY MATERIALS USED IN THE COURSE (if any):

Please check with the LCC bookstore <http://www.labette.edu/bookstore> for the required texts for this class.

COURSE NUMBER: DMS 201

COURSE TITLE: INTRODUCTION TO SONOGRAPHY

SEMESTER CREDIT HOURS: 2

DEPARTMENT: Diagnostic Medical Sonography

DIVISION: Health Science

PREREQUISITES: Acceptance into the Sonography program

COURSE DESCRIPTION:

This course designed to introduce the student to the basic responsibilities of a diagnostic medical sonographer. The course will include medical terminology and abbreviations, ergonomics, bioeffects, and knobology used in diagnostic ultrasound. Introduction to Sonography will build upon the ethics and law curriculum from your radiology program and apply it to the ultrasound setting. Patient confidentiality and rights will be explained along with the professional codes of conduct for a diagnostic medical sonographer.

COURSE OUTCOMES AND COMPETENCIES:

Students who successfully complete this course will be able to:

1. Identify and manipulate the correct knobology of the Ultrasound machine.
 - Distinguish between the different frequencies of multiple transducers.
 - Manipulate the TGC's to a diagnostic setting.
 - Choose the correct exam setting per procedure.
 - Change the receiver gain to correct setting.
 - Enter accurate patient information into the computer.

2. Recognize medical terminology specifically used in Sonography.

- Explain the difference between hyperechoic, hypoechoic, and anechoic.
- Distinguish between shadowing and posterior acoustic enhancement.
- Describe the different scanning planes. Sagittal, coronal, and axial.
- Demonstrate correct medical terminology to the reading physician.

3. Locate and identify the biologic effects and safety features of ultrasound.

- Identify the risk vs. benefits of ultrasound procedures.
- Demonstrate the safety features used by sonographers to minimize the possibility of harmful effects to the patient.
- Adjust settings and maintain safe ALARA practices while imaging.
- Defend patient rights and code of conduct.

4. Describe the importance of proper body ergonomics in the Sonography field

- Display correct scanning position to reduce work related musculoskeletal injuries.
- Adjust the ultrasound machine to comfortable heights to reduce shoulder strain.
- Demonstrates proper bending and lifting technique to reduce spine injury.

5. Apply medical ethics and law while in the clinical setting.

- Demonstrate the code of ethical conduct for medical imaging.
- Compare medical legal issues and patient confidentiality.
- Review patient safety issues and body mechanics.
- Defend patient rights.

6. Know the basic responsibilities of a sonographer.

- Demonstrate responsibilities for patient care and comfort.
- Employ professional judgment and discretion and adhere to HIPPA.
- Explain the basic fundamental elements of a quality assurance program.
- Know the licensing requirements of sonographers, including requirements concerning continuing education.