



**BAKER COLLEGE**  
**STUDENT LEARNING OUTCOMES**  
**HSC1910 Introduction to Sonography and Patient Care**  
3 Semester Hours

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**Student Learning Outcomes & Enabling Objectives**

1. Distinguish the essential components of a medical law and ethics.
  - a. Describe the legal process and types of law.
  - b. Describe best practices and procedures for reporting medical.
  - c. Define key terminology related to ethics and principles of ethical decisions.
  - d. Discuss compliance regulations relating to patient privacy and confidentiality (HIPPA) and Patient's Bill of Rights.
  - e. Discuss coding and reimbursement systems and consequences for non-compliance.
2. Identify professional requirements of a Sonographer.
  - a. Distinguish professional parameters for Sonographers.
  - b. Identify educational requirements and opportunities for Sonographers.
  - c. Differentiate various professional organizations.
3. Analyze the significance of appropriate professional behaviors and communication.
  - a. Describe effective methods of verbal and nonverbal communications for various situations in healthcare.
  - b. Demonstrate awareness of key skills in relation to cultural competence.
  - c. Discuss critical thinking and its application to the health care environment.
  - d. Discuss effective acquisition of patient assessment techniques and reporting.
  - e. Discuss compassionate care and special considerations.
  - f. Utilize appropriate medical terminology.
4. Analyze appropriate patient care techniques.
  - a. Describe the types of infections and forms of transmission.
  - b. Identify universal precautions, personal protective equipment (PPE), various isolation precautions, and aseptic techniques.
  - c. Demonstrate proper PPE, patient vitals, hand washing, and transfer techniques.
  - d. Discuss the use and care of intravenous lines, catheters, drains, tubes, and oxygen administration devices.
  - e. Differentiate between immobilization techniques and mechanisms of immobilization.
  - f. Discuss appropriate responses to specific emergencies and effective emergency preparedness plans.
5. Describe the risk factors, common causes, symptoms, and physical consequences for work related musculoskeletal disorders (WRMSD) in sonographers.
  - a. Demonstrate appropriate ergonomics.

- b. Describe diagnosis, treatment, and prevention techniques to minimize risk.
- c. Explain the psychological, emotional, and financial impact of WRMSD.
- 6. Explore the fundamental principles, terminology, and pharmacokinetics of drugs associated with the care of the sonography patient.
  - a. Differentiate between chemical, generic, and trade names of drugs to include abbreviations.
  - b. Explain how drugs are categorized by therapeutic class including advantages and disadvantages.
  - c. Explore drug actions and interactions.
  - d. Describe routes of drug administration and dosage.
  - e. Compare the methodology, advantages, and disadvantages of pharmacological and non-pharmacological cardiovascular diagnostic procedures.
  - f. Discuss the mechanism of action, indications, and prototypes of the following drugs.
    - i. Cardiovascular drugs
    - ii. Diuretics
    - iii. Nitrates
    - iv. Statins
    - v. Respiratory drugs
    - vi. Cancer drugs
    - vii. Antibiotics
    - viii. Anti-inflammatory and analgesic drugs
    - ix. Sedative and hypnotic drugs
    - x. Benzodiazepines

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These SLOs are not approved for experiential credit.

**Effective: Summer 2019**