



BAKER COLLEGE STUDENT LEARNING OUTCOMES

SUR2420 Surgical Procedures II 2 Semester Hours

Program Goals

To prepare competent entry-level surgical technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

Student Learning Outcomes & Enabling Objectives

Cognitive:

1. Describe the purpose and process of the surgical procedure.
 - a. Identify sutures to appropriate tissue.
 - b. Summarize the anatomy and instrumentation correlating with common surgical procedures.
 - c. Discuss safety precautions as they pertain to positioning of the patient.
2. Distinguish the surgical specialties and the common procedures related to them.
 - a. Discuss the instrumentation, equipment, and supplies needed to gain access for specific surgical procedures.
 - b. Identify the general surgical procedures.
 - c. Identify the surgical specialties: neurological, ophthalmic, peripheral vascular, cardiothoracic, oral/maxillofacial, laser, and robotic.
 - d. Describe tissue replacement materials and the surgical procedures that require their usage.
3. Explain how to transition from a minimally invasive to an open procedure.
 - a. Discuss when minimally invasive and open procedures are used.
 - b. Describe the instrumentation, equipment, and supplies required for minimally invasive and open procedures.
 - c. Explain the safety concerns for minimally invasive and open procedures.
4. Describe how technology has advanced surgical procedures.
 - a. Compare the technology used in surgical procedures today to the technology used several years ago.
 - b. Discuss new technologies being developed for future use during surgical procedures.
5. Explain how pathophysiology and diagnostic modalities relate to surgical procedures.
 - a. Compare and contrast the various surgical pathologies of each body system.
 - b. Relate pathophysiology to surgical interventions.
 - c. Analyze the relationship between cell pathology and disease.
 - d. Examine hemodynamic disorders, inflammation, and infection.
 - e. Characterize diagnostics in surgical procedures.
6. Explain how the diagnostic modality impacts the preoperative planning for a procedure.
 - a. Compare how different diagnostic results change the treatment options in preoperative planning.
 - b. Identify preoperative planning as it correlates with the different diagnostic modalities.
 - c. Discuss preoperative planning, anticipation of supplies and room set up based on diagnostics.

Big Ideas and Essential Questions

Big Ideas:

- Pre-Operative Diagnosis
- Integrate Common Procedural Techniques
- Advanced Instrumentation, Supplies, Equipment

Essential Questions:

- What is the role of pre-operative planning?
- How is diagnostics related to surgical procedures?
- How can I integrate my knowledge of human anatomy to a surgical procedure?
- Why is it important to know the major components of a surgical procedure?
- How is technology impacting surgical procedures?
- How can I apply knowledge and skills of common surgical procedures to advanced surgical procedures?

These SLOs are not approved for experiential credit.

Effective: Fall 2017