



South Central College

# **SURG 1330 Pharmacology for the Surgical Technologist**

## **Common Course Outline**

### **Course Information**

**Description** This course introduces pharmacological fundamentals that correlate with the surgical settings. Emphasis is placed on the role and responsibility of the surgical technologist related to medication handling. Topics to be covered will include surgical team roles, classifications, packaging, measurement, calculations, and delivery of medications. Anesthesia techniques including regional, general, and local administration. (Prerequisites: SURG 1100, SURG 1220, SURG 1240, Corequisite: SURG 1340, SURG 1450).

**Total Credits** 2

**Total Hours** 32

### **Types of Instruction**

<b>Instruction Type</b>	<b>Credits/Hours</b>
Lecture	2/32

### **Pre/Corequisites**

Prerequisite SURG 1100, SURG 1220, SURG 1240

Corequisite SURG 1340, SURG 1450

### **Course Outcomes**

#### **1. Define principles of anesthesia administration.**

##### **Learning Objectives**

Label anesthesia equipment.

Identify the different patient needs during general, regional, and local anesthesia.

Analyze principles of anesthesia administration and explain the necessity of each component of anesthesia preparation of the surgical patient.

Correlate anesthesia monitoring devices with patient homeostasis.

#### **2. Explain anesthesia medications.**

##### **Learning Objectives**

Define the medications used preoperatively and postoperatively.

Define anesthesia medications used in general, regional, and local anesthesia.

Compare and contrast methods, agents, and techniques of anesthesia administration and preparation.

**3. Describe pharmacology terminology and medical abbreviations.**

**Learning Objectives**

Discuss nomenclature of surgical medications.  
Define classifications of medications used in surgery.  
Apply general terminology to medication use.

**4. Demonstrate medication measurements, care, and handling of surgical medications.**

**Learning Objectives**

List supplies needed for medication labeling.  
Discuss calculations of dosage for surgical medications.  
Calculate medication conversions and dosages.

**5. Define pharmacokinetics.**

**Learning Objectives**

Discuss absorption and distribution of surgical medications.  
Discuss metabolism and excretion of surgical medications.

**6. Explain patient concepts when anesthetized.**

**Learning Objectives**

Define patient positions and monitorization when anesthetized.  
Discuss documentation of medications used in surgery.  
Explain anesthesia complications and interventions.

**7. Explain the Post Anesthesia Care Unit.**

**Learning Objectives**

Analyze the postoperative care of the surgical patient.

Describe potential surgical patient complications.  
Describe the assistive role of the surgical technologist.  
Describe equipment and supplies.  
Discuss the criteria for patient discharge.

**SCC Accessibility Statement**

Disability Services provides accommodations and other supports to students with permanent and temporary disabilities that affect their SCC experience. Disabilities may include mental health (anxiety, depression, PTSD), ADHD, learning disabilities, chronic health conditions (migraine, fibromyalgia), sensory disabilities, and temporary disabilities (broken arm, surgery). Common accommodations are extended test time, private room for testing, audiobooks, and sign language interpreter.

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