



South Central College

# SURG 1220 Surgical Lab

## Common Course Outline

### Course Information

**Description** This course focuses on applied principles of surgical asepsis in the operating room. It provides an introduction to the physical organization of the surgical suite. Students learn to prepare and maintain the sterile field including identification, care, and handling of instruments; suture; preparation and use of supplies; and equipment. Emphasis is on basic skills of the surgical technologist in preparation for and during the operative procedure. (Prerequisite: SURG 1100, Corequisites: SURG 1240)

**Total Credits** 4

**Total Hours** 128

### Types of Instruction

Instruction Type	Credits/Hours
Lab	4/128

### Pre/Corequisites

Prerequisite SURG 1100

Corequisite SURG 1240

### Course Outcomes

#### 1. Explain sterile processing.

##### Learning Objectives

- Discuss the Point of Use (POU) decontamination.
- Practice inspection and assembly of an instrument set.
- Discuss sterile packaging techniques.
- Discuss operation of a steam sterilizer.
- Participate in sterile storage and distribution.
- Correlate the impact of microbiology concerning the practice of sterile technique and infection control in the operative setting.
- Relate the infectious process to surgical practice.
- Define terms related to sterile processing.
- Describe the processes of decontamination.

Describe the manual methods used for cleaning surgical instrumentation and equipment.  
Describe the mechanical methods used for cleaning.  
Describe the concepts of disinfection.  
Discuss the principles related to preparing items for sterilization.  
Analyze the requirements for sterilizing items.  
Discuss the principles of sterile storage.  
Discuss the principles of distributing sterile supplies.

## **2. Describe and demonstrate hand hygiene and the surgical scrub.**

### **Learning Objectives**

Describe the considerations that are important to maintaining hand and skin integrity.  
Discuss the concepts for performing the medical hand wash.  
Discuss the concepts of the surgical scrub related to infection control.  
Demonstrate the steps of a medical hand wash.  
Demonstrate the steps for preparing to complete a surgical scrub.  
Demonstrate the steps of performing a surgical scrub.

## **3. Describe and demonstrate appropriate surgical attire.**

### **Learning Objectives**

Identify select types of surgical attire.

Describe the purposes of surgical attire.  
Identify the types of accessory attire.  
Discuss restrictions involving surgical attire.  
Demonstrate the principles involved in donning and doffing surgical attire.

## **4. Discuss draping techniques.**

### **Learning Objectives**

Describe the characteristics of draping material.  
Describe the types of draping materials.  
Explain the application of drapes to equipment and furniture.  
Explain the selection of drapes concerning anatomical regions.  
Describe the draping sequence as related to surgical procedures.  
Demonstrate the principles of asepsis when draping the patient, furniture, and equipment.

## **5. Describe the purpose of patient of identification and the time out.**

### **Learning Objectives**

State the purpose of patient identification.  
Describe the patient identification procedure according to the patient situation.  
Describe the purpose of the time out procedure.  
Identify the sequence for the time out procedure.  
Recall who will participate in the time out procedure.  
Identify the time out components.  
Participate in the identification process of a surgical patient.

## **6. Define sterile processing of surgical instrumentation.**

### **Learning Objectives**

Describe the terms related to asepsis and sterile technique.  
Apply concepts related to asepsis.  
Evaluate sources of contamination.  
Discuss principles and practices of sterile technique.  
Demonstrate proper sterile technique in a surgical environment.

## **7. Establish and maintain the sterile field.**

### **Learning Objectives**

Describe the principles associated with establishing the sterile field.  
Explain the steps for preparing an operating room.  
Describe the surgeon's preference card.  
Describe the concepts that are applied for opening sterile items.

Explain the sequence of opening sterile supplies.  
Explain the steps for organizing the back table.  
Explain the steps for organizing the Mayo stand.  
Describe the final steps required to finish establishing the sterile field.  
Analyze special circumstances that require adjusting the normal routine for establishing the sterile field.  
Demonstrate opening sterile supplies.  
Demonstrate the procedure to correct contaminations during the opening process.  
Demonstrate the process of organizing the sterile field.  
Demonstrate the principles of economy of motion.  
Demonstrate the principles of spatial awareness when organizing the sterile field.  
Demonstrate the finalization of the sterile field.  
Demonstrate modifications to setting up the sterile field that must be taken when a special circumstance occurs.

## **8. Explain the importance of surgical counts.**

### **Learning Objectives**

Discuss the purposes of surgical counts.  
Describe the types of documentation.  
Identify the items that must be counted.  
Describe the methods for counting.  
Discuss the frequency and timing of surgical counts.  
Explain the intraoperative sequence for completing surgical counts.  
Identify when additional counts are necessary.  
Demonstrate the procedure for counting sponges, sharps, instruments, and accessory items on the field.

## **9. Explain instrumentation.**

### **Learning Objectives**

Identify the manufacturing characteristics of surgical instruments.  
Compare the grades of surgical instruments.  
Describe the categories of surgical instruments.  
Apply knowledge of surgical instrumentation to specific surgical specialties.  
Evaluate perioperative instrumentation handling concepts.  
Demonstrate perioperative instrument handling.  
Demonstrate proper transport of instrumentation.

## **10. Describe postoperative duties.**

### **Learning Objectives**

Patient transfer.  
Breakdown of the sterile field.  
Doffing surgical attire.  
Disinfection the surgical environment.  
Discuss postoperative care, considerations, and potential complications for the surgical patient.

## **11. Explain sterile gowning and gloving.**

### **Learning Objectives**

Describe the types of surgical gowns and gloves.  
Describe the factors that affect the selection process.  
Describe the methods of gowning.  
Evaluate each method of gloving.  
Apply the principles of asepsis to gowning and gloving self.  
Apply the principles of asepsis to gowning and gloving other team members.  
Demonstrate the principles involved in donning or doffing surgical attire.

## **12. Explain perioperative duties.**

### **Learning Objectives**

Describe the physical preparation that the surgical patient may receive before the surgical procedure.  
Identify methods of patient transport.  
Discuss the principles of transporting a patient.  
Discuss the principles of transferring a patient.  
Identify equipment utilized for transferring the surgical patient.

List the indication for urinary catheterization.  
List the items to be taken under consideration when performing urinary catheterization.  
List the supplies required to perform urinary catheterization.  
Explain the steps for performing urinary catheterization.  
Discuss the principles of monitoring urine output.  
Explain the factors to be taken under consideration when the patient position is selected.  
Identify the sections of the operating room table.  
Explain the functions of the operating room table.  
Describe the surgical positions.  
Describe the various types of accessory devices.  
Evaluate the uses of accessory devices.  
Explain the factors to be taken under consideration to perform the patient skin prep.  
Describe the various types of skin prep supplies.  
Compare different skin prep solutions.  
Explain the steps for completing a patient skin prep.

### **13. Perform various perioperative duties.**

#### **Learning Objectives**

Demonstrate the principles of safe patient transport and transfer.  
Demonstrate basic positioning of the surgical patient.  
Demonstrate urinary catheterization.  
Demonstrate skin preparation.  
Prepare the operating room for a mock surgical procedure.  
Open and deliver sterile items utilizing aseptic technique.  
Perform the medical handwash and surgical hand scrub.  
Demonstrate the assembly of various types of equipment.  
Demonstrate the use of various types of equipment.  
Demonstrate the care of various types of equipment.

### **14. Describe and perform various intraoperative duties.**

#### **Learning Objectives**

Demonstrate techniques for tissue exposure.  
Donning the sterile gown and gloves.  
Assemble and organize the sterile field.  
Practice the procedure for counting sponges, sharps, instruments, and accessory items.  
Participate in gowning and gloving another sterile team member.  
Practice draping the surgical patient.  
Practice finalizing the sterile field and transitioning to the operative field.  
Perform a mock surgical procedure utilizing the principles of asepsis in the first scrub role.  
Perform a mock surgical procedure utilizing the principles of asepsis in the second scrub role.  
Discuss the concepts that apply to the maintenance of the sterile field.  
Explain the duties of the surgical technologist to maintain the sterile field.  
Describe special considerations that require the surgical technologist to make adjustments to maintain the sterile field.  
Demonstrate sharps safety.  
Demonstrate fire safety precautions during the intraoperative surgical phase.  
Demonstrate correctly passing instruments.  
Demonstrate methods for monitoring the sterile field.  
Demonstrate performing counts.  
Demonstrate transfer of care.  
Demonstrate managing medications.  
Demonstrate techniques for handling various types of specimens.  
Demonstrate handling of various types of sponges on the sterile field.  
Demonstrate application of various types of dressings.  
Demonstrate the surgical technologist's role in hemostasis.

### **15. Practice wound management.**

#### **Learning Objectives**

Identify the factors that must be considered when selecting the type of needle holder.  
Describe the techniques for cutting suture material.

Summarize the skin closure techniques.  
Describe the various types of wound closure accessories.  
Define the terminology related to wound healing.  
Describe the various types of wounds.  
Analyze the mechanisms of wound healing.  
Evaluate the classification of surgical wound.  
Analyze the factors that influence wound healing.  
Describe the complications that interrupt normal wound healing.

**16. Display the assistant circulator role.**

**Learning Objectives**

Display operating room preparation.  
Practice how to monitor vital signs.  
Practice urinary catheterization.  
Discuss patient transport to the operating room.  
Demonstrate patient transfer to the surgical table.  
Practice how to apply and connect accessory devices.  
Discuss patient positioning.  
Demonstrate surgical skin prep.  
Demonstrate patient transfer from the surgical table to the stretcher.

**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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