

## SECTION HEADING

### SURG 1150: Operating Room Procedures I

#### Description

Operating Room Procedures I enable students to understand the various types of surgical procedures. Students will apply previous theory courses to specific surgical procedures. Students will study diagnostic procedures and surgical cases to include General Surgery (gastrointestinal, hernia repairs, breast surgery, thyroid & parathyroid, liver & biliary tract), Genitourinary, OBGYN, Ophthalmic, Oral & Maxillofacial, and Plastic & Reconstructive surgeries. Patient positioning, instrumentation, and equipment and supplies necessary to complete a surgical procedure as well as the sequence of surgical procedures will be applied in the lab setting. Students will develop fundamental operating room skills; identify instruments and prepare necessary supplies for surgical case management. This course includes the basic knowledge of electricity, physics and robotics. Emphases will be placed on demonstrating the principles of aseptic techniques as applied to the role of the surgical technologist. The students will observe, practice and demonstrate skills.

#### Credits

6

#### Prerequisite

SURG 1110 and SURG 1130

#### Corequisite

None

#### Topics to be Covered

1. Incisions and tissue approximation
2. Surgical procedures and operative sequence
3. Preoperative diagnosis & diagnostics
4. Anatomy & physiology
5. Patient positioning and devices
6. Creation and maintenance of the sterile field
7. Basic case preparation and selection
8. Identify and prepare various surgical instruments, supplies and equipment
9. Open gloving and Urinary catheterizations and drains
10. Thermoregulation
11. Preanesthesia skills
12. Skin preparation
13. Fire awareness
14. Identify, prepare, and pass instruments including loading suture right & left handed
15. Specimen care, dressings, drains, wound classifications, and postanesthesia care

#### Learning Outcomes

1. Describe the purpose of interventional radiology (IR), considerations for the use of IR, and imaging modalities and other diagnostic procedures and pathology used to obtain a diagnosis in the role of the surgical technologist.
2. Compare and contrast the approach, sequence, various types of incisions, the anatomy and physiology related to each type of incision and the principles of exposure of different procedures.
3. Recognize the necessary supplies, instrumentation, and equipment for each procedure and identify which instruments will be placed on the Mayo stand.
4. Discuss the steps taken at the beginning of a surgical procedure including the "Time Out".
5. Apply medical terminology as it relates to each procedure.
6. Describe and demonstrate preoperative patient preparation, considerations for each procedure, and positioning of the patient for each procedure and other circulator duties.
7. Identify the wound classifications for each procedure.
8. Discuss postoperative care, considerations, and potential complications for the surgical patient.
9. Demonstrate mock surgical procedure utilizing the principles of asepsis in the 1st and 2nd scrub role.

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10. Demonstrate the identification process, transportation, and transfer of a surgical patient preoperative and postoperative.
11. Perform the steps for surgical skin preparation, fire safe and electrical safety, and operating the electrosurgical unit.
12. Demonstrate the principles of asepsis to gowning and gloving other team members, open gloving in non-sterile role and performing urinary catheterization.
13. Demonstrate the application, principles and sequence of draping in different patient positions, types of drapes, and draping furniture and equipment including a C-Arm.
14. Demonstrate helping during preanesthesia sequence and know the initial steps for starting a surgical procedure including participating in the surgery checklist called the "Time-Out".
15. Demonstrate methods for monitoring the sterile field, recognize and correct contamination errors.
16. Demonstrate the surgical technologist's role in hemostasis with suctioning technique, handling various types sponges, and applying topical hemostatic supplies.
17. Demonstrate isolation technique, change in sterile attire and instruments, correcting contamination errors.
18. Demonstrate techniques and procedures for labeling, handling, and validation process of various types of specimens.
19. Demonstrate the proper suture selection, preparation, loading, handling, passing right- and left-handed, and cutting techniques including the proper disposal of needles.
20. Demonstrate correctly passing different instruments and supplies to right- and left-handed surgeons.
21. Demonstrate preparation and application of various types of dressings and wound drains and assist with postanesthesia care.

### **Credit Details**

Lecture: 4

Lab: 2

OJT: 0

MnTC Goal Area(s): None