

SURT-130L: SURGERY LAB

Cuyahoga Community College

Viewing: SURT-130L : Surgery Lab

Board of Trustees:

May 2025

Academic Term:

Fall 2025

Subject Code

SURT - Surgical Technology

Course Number:

130L

Title:

Surgery Lab

Catalog Description:

Practice of skills required of the surgical technologist. Patient transportation and transfer skills, operation of the surgical bed, patient positioning, sterile wrapping of supplies and instrumentation, sterile techniques utilized when opening and dispensing sterile supplies and instrumentation, skin preparation, urinary catheterization, surgical scrub, gowning and gloving, gowning and gloving of other team members, back table and mayo stand set-up, basic draping, passing of instrumentation during a procedure and end of case procedures. Assistant circulator skills, such as vitals and operation of equipment, are introduced. Problem solving skills and employability are introduced.

Credit Hour(s):

2

Lab Hour(s):

6

Requisites

Prerequisite and Corequisite

Concurrent enrollment in SURT-1300 Introduction to Surgery and departmental approval: Admission to program.

Outcomes

Course Outcome(s):

Perform postoperative case management skills.

Objective(s):

1. Demonstrate competency related to application of surgical dressings.
2. Demonstrate the safe practice of gown and glove removal.
3. Identify and practice the proper procedure for drape removal.
4. Discuss and demonstrate the proper procedure for the breakdown of the sterile field and disinfection procedures.

Course Outcome(s):

Perform assistant circulating skills within the scope of practice for the surgical technologist.

Objective(s):

1. Identify, describe, and demonstrate the principles of transportation of the surgical patient.
2. Discuss, demonstrate, and apply the principles of surgical positioning.
3. Demonstrate the steps of surgical skin preparation for the operative site.
4. Identify the safe practice of the electrosurgical unit for the OR patient.
5. Explain the principles and demonstrate the taking and recording of vital signs.
6. Explain the principles of urinary catheterization and demonstrate the procedure.
7. Demonstrate safe practice in transferring drugs and solutions from the non-sterile area to the sterile field.

Course Outcome(s):

Perform preoperative case management skills.

Objective(s):

1. Demonstrate proper OR attire and personal appearance.
2. Discuss the surgical environment and the application of the principles of asepsis to the environment.
3. Demonstrate sterile wrapping of surgical supplies and instrumentation in preparation of procedure.
4. Identify and prepare supplies used in the OR.
5. Demonstrate techniques of opening different types of supplies and instrumentation needed for any operative procedure with the maintenance of sterile technique at all times.
6. Demonstrate the proper techniques for the surgical hand scrub, gowning, gloving, and assisting team members.
7. Demonstrate and explain in detail the procedure for counting instruments, sponges, needles, and other items on the sterile field.
8. Demonstrate beginning level draping skills.

Course Outcome(s):

Utilize positive employability skills needed in the surgical technology profession.

Objective(s):

1. Discuss the value of team work.
2. Demonstrate interpersonal skills to successfully work in a team environment.
3. Develop problem-solving skills related to OR practice.
4. Identify and develop skills related to stress management in the OR setting.

Course Outcome(s):

Perform intraoperative case management skills.

Objective(s):

1. Demonstrate proper care, handling, and assembly of instruments.
2. Identify basic instruments by type, function, and name.
3. Identify suture materials and stapling devices and their usage.
4. Identify, describe the use of, and demonstrate proper handling of the various types of surgical needles.
5. Demonstrate the procedure for identifying a drug or solution on the sterile field.
6. Demonstrate the initial steps for starting a procedure.
7. Demonstrate basic scrub skills for general surgery procedures.
8. Demonstrate the proper sterile wrapping technique for preparing supplies and instruments.
9. Demonstrate intraoperative handling of sterile equipment and supplies.

Methods of Evaluation:

1. Midterm and final practicum, demonstration of surgical skills
2. Examinations
3. Quizzes
4. Assignments

Course Content Outline:

1. Proper OR attire and personal appearance
 - a. Personal hygiene
 - b. Personal appearance
 - c. External body adornments
 - d. Professional attire, uniform
2. Asepsis and sterile technique
 - a. Principles of asepsis
 - b. Cleaning, disinfection, and sterilization
 - c. Instrument preparation and wrapping for sterilization
 - d. Packaging for sterilization and storage
 - e. Methods of monitoring the sterilization process

3. General patient care and safety
 - a. Transfer and positioning
 - b. Basic positioning for surgery
 - c. Vital signs
 - d. Urinary catheterization
 - e. Skin preparation
4. Surgical pharmacology and anesthesia
 - a. Medication identification
 - b. Supplies for medication handling
 - c. Transfer of medication to a sterile field
5. Instrumentation, equipment, and supplies
 - a. Instrumentation identification, care, and handling
 - b. Sterile and non-sterile supplies
 - c. Accessory equipment
6. Sutures, needles, and stapling devices
 - a. Suture identification and characteristics
 - b. Types of needles
 - c. Types of staplers
7. Surgical case management
 - a. Preoperative case management
 - b. Organizing the back table and mayo stand
 - c. Intraoperative case management
 - d. Postoperative case management
8. Employability skills
 - a. Teamwork
 - b. Interpersonal skills
 - c. Problem solving
 - d. Stress management

Resources

Association of Surgical Technologists, et al. *Surgical Technology for the Surgical Technologist: A Positive Care Approach*. 6th ed. Boston, MA: Cengage-Learning, 2024.

Dankanich, Nancy. *Operating Room Skills*. 2nd ed. Upsaddle River, New Jersey: Pearson Education Inc., 2020.

Fuller Kotcher, Joanna. *Surgical Technology Principles and Practice*. 8th ed. St. Louis: Elsevier, 2022.

Goldman, Maxine A. *Pocket Guide to the Operating Room*. 4th ed. Philadelphia:F.A. Davis, 2020.

Phillips, Nancymarie. *Berry and Kohn's Operating Room Technique*. 14th ed. St. Louis, MO: Mosby, 2021.

Pieknik, Rebecca. *Suture and Surgical Hemostasis*. 1st ed. St. Louis, MO: Elsevier Mosby, 2006.

Rothrock, J. C. *Alexander's Care of the Patient in Surgery*. 17th ed. St. Louis: Mosby, 2023.

Rothrock, J. C. and Sherri Alexander. *Alexander's Surgical Procedures*. 1st ed. St. Louis, MO: Elsevier Mosby, 2012.

Rutherford, Colleen J. *Flashcards for Differentiating Surgical Instruments*. Philadelphia, PA: F.A. Davis, 2012.

Rutherford, Colleen J. *Surgical Equipment and Supplies*. 3rd ed. Philadelphia, PA: FA Davis, 2023.

Rutherford, Colleen J. *Differentiating Surgical Instruments*. 3rd ed. Philadelphia, PA: FA Davis, 2020.

Venes, Donald, ed. *Taber's Cyclopedic Medical Dictionary*. 24th ed. Philadelphia: Davis, 2021.

Resources Other

Association of Surgical Technologists. [https://www.ast.org/ 2025](https://www.ast.org/).

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