

SURT-2863: CLINICAL EXPERIENCE IV

Cuyahoga Community College

Viewing: SURT-2863 : Clinical Experience IV

Board of Trustees:

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Academic Term:

Fall 2024

Subject Code

SURT - Surgical Technology

Course Number:

2863

Title:

Clinical Experience IV

Catalog Description:

Capstone course in Surgical Technology, with a focus on specialty surgical procedures. Practical application of previously learned surgical skills at assigned affiliated hospital. Students perform primarily in the first scrub role. Weekly CST Exam review and post-clinical experience discussion. All students must register and sit for the Certified Surgical Technology (CST) Examination at the end of the course. Each student is responsible to pay all costs associated with the examination.

Credit Hour(s):

5

Lecture Hour(s):

0

Other Hour(s):

390

Other Hour Details:

Practicum: 16 hours per week; Seminar: 3 hours per week; Note: Listed contact hours reflects total contact time for required seminar and practicum hours

Requisites

Prerequisite and Corequisite

SURT-1300 Introduction to Surgery, SURT-130L Surgery Lab, SURT-1330 General Surgery, SURT-1911 Clinical Experience I, SURT-1921 Clinical Experience II, SURT-2300 Surgical Specialties and SURT-2851 Clinical Experience III.

Outcomes

Course Outcome(s):

A. Apply knowledge of the operating room environment while working as a surgical technologist.

Objective(s):

1. Follow proper cleaning procedures, traffic patterns and routines in the operative environment.
2. Identify and work appropriately with the physical components of the OR.
3. Identify and avoid/notify appropriate personnel of hazards to the patient and OR staff in the operative environment.
4. Utilize support services that work with the OR team in the care of the patient.

Course Outcome(s):

B. Perform competently as a surgical technologist by demonstrating case management skills

with minimal or no assistance in the first scrub role.

Objective(s):

1. Transferring and transporting the surgical patient.
2. Positioning a patient for a surgical procedure.
3. Demonstrate the practice of sterile technique.
4. Perform disinfection and sterilization procedures.
5. Maintain sterile technique at all times when opening and preparing supplies and instruments needed for the operative procedure.
6. Utilize the proper technique for the surgical hand scrub, gowning, gloving, and assisting team members.
7. Correctly prepare supplies and instruments on the sterile field.
8. Initiate and demonstrate competent skills for counting instruments, sponges, needles and other items on the sterile field.
9. Demonstrate competent skills during surgical draping.
10. Initiate the steps for beginning a surgical procedure with competency.
11. Demonstrate intraoperative handling of sterile equipment and supplies including suture material, stapling devices, instruments, equipment, drugs and solutions and surgical specimens.
12. Apply critical thinking problem-solving skills in the operative setting.
13. Select and utilize the appropriate clinical resource material to aid in knowledge of surgical procedures.
14. Demonstrate competent skills regarding the postoperative routines of the surgical environment including preparing and handling of dressing and drains, cleaning and preparing instruments for terminal sterilization and participating in room turnover.
15. Build on previous learning experiences by applying knowledge gained from previous operative procedures to similar specialty procedures.
16. Recognize and follow perioperative routines of the surgical patient, including preoperative routines, intraoperative routines and postoperative routines.

Course Outcome(s):

- C. Demonstrate professional conduct when working in the operating room environment.

Objective(s):

1. Speaks and behaves professionally.
2. Demonstrates punctuality.
3. Accepts constructive criticism.
4. Complies with hospital and college policies.
5. Displays a positive attitude.
6. Works as a team member.

Course Outcome(s):

- D. Recall previous surgical technology subject matter in preparation for the Certified Surgical Technologist (CST) Examination.

Essential Learning Outcome Mapping:

Written Communication: Demonstrate effective written communication for an intended audience that follows genre/disciplinary conventions that reflect clarity, organization, and editing skills.

Objective(s):

1. Explain perioperative patient care procedures including preoperative routines, intraoperative routines and postoperative routines.
2. Use medical terminology correctly.
3. Explain aseptic technique.
4. Discuss aspects of wound healing.
5. Identify and discuss basic and related sciences including Anatomy and Physiology, Pathophysiology, Microbiology, Pharmacology and Anesthesiology.
6. Explain use of biomedical sciences in the operative setting including

- computers, electricity and robotics.
7. Discuss various surgical procedures.

Course Outcome(s):

- E. Utilize employability skills to assist in gaining employment.

Objective(s):

1. Demonstrate appropriate interview skills.
2. Write a professional resume and cover letter.
3. Discuss how to access continuing educational units (CEUs) toward the maintenance of national certification, including navigating online CEU providers and current literature.
4. Perform in a minimum of 120 surgical cases throughout all program clinical experiences.
5. Perform 30 cases in General Surgery; 20 of the cases must be in the First Scrub Role.
6. Perform 90 cases in various surgical specialties; 60 of the cases must be in the First Scrub Role.

Methods of Evaluation:

1. Demonstration of skills
2. Clinical attendance and evaluation
3. Written assignment
4. Seminar attendance and participation.

Course Content Outline:

1. Clinical rotations
 - a. 120 surgical cases
 - b. General Surgery - 30 cases required, 20 in First Scrub Role
 - c. Surgical Specialties - 90 cases required, 60 in First Scrub Role
 - i. Cardiothoracic
 - ii. ENT
 - iii. Eye
 - iv. GU
 - v. Neuro
 - vi. OB-GYN
 - vii. Oral/Maxillofacial
 - viii. Orthopedics
 - ix. Peripheral vascular
 - x. Plastics
 - xi. Procurement/Transplant
 - d. Seminar: Weekly discussions regarding clinical experiences
2. Operating room environment
 - a. General knowledge
 - i. Aseptic technique
 - ii. Anatomy and Physiology
 - iii. Anesthesia routines
 - iv. Standard precautions
 - v. Critical thinking
 - b. Preoperative skills
 - i. Preparation of proper supplies
 - ii. Opening supplies
 - iii. Positioning
 - iv. Skin prep
 - v. Time organization

- c. Intraoperative skills
 - i. Scrubbing, gowning, gloving
 - ii. Table set up
 - iii. Draping
 - iv. Instrumentation
 - v. Sutures/staplers
 - vi. Specimen care
 - vii. Medication/solutions
 - viii. Counting instruments, sponges, sharps
 - ix. Sterile/clean/contaminated procedures
 - x. Organization of sterile field
 - xi. Anticipation of surgical team
 - xii. Sterilization of instruments/equipment
 - xiii. Assistant circulating skills
 - xiv. 120 surgical cases
 - xv. Scrub roles
 - 1. First scrub role - Must meet the following five criteria as well as the criteria of the second scrub role
 - a. Verify supplies and equipment needed for surgical procedures
 - b. Set up the sterile field with instruments, supplies, equipment, medication(s), and solutions needed for the procedure
 - c. Perform counts with the circulator prior to the procedure and before the incision is closed
 - d. Pass instruments and supplies to the sterile team members during the procedure
 - e. Maintain sterile technique as measured by recognized breaks in technique and demonstrate knowledge of how to correct with appropriate technique
 - 2. Second scrub role - The second scrub role is defined as the student who is at the sterile field who has not met all the criteria for the first scrub role but actively participates in the surgical procedure in its entirety by completing any of the following:
 - a. Sponging
 - b. Suctioning
 - c. Cutting Suture
 - d. Holding retractors
 - e. Manipulating endoscopic camera
 - f. Assists with a diagnostic endoscopy
 - g. Assists with vaginal delivery
 - 3. Observation role - The observation role is defined as the student who is in the operating room performing roles that do not meet the criteria for the first or second scrub role. These observation cases are not to be included in the required case count but must be documented by the program.
 - xvi. General Surgery - 30 cases required, 20 in First Scrub Role
 - xvii. Surgical Specialties - 90 cases required, 60 in First Scrub Role
 - d. Postoperative skills
 - i. Dressing/drains
 - ii. Terminal sterilization of instruments
 - iii. Transfer/transport of patient
 - e. Professional development
 - i. Professional conversation
 - ii. Punctuality
 - iii. Constructive criticism
 - iv. Hospital/college policies
 - v. Flexibility
 - vi. Surgical conscience
 - vii. Positive attitude
 - viii. Team attitude
3. Perioperative Experience
- a. Preoperative routines
 - b. Intraoperative routines
 - c. Postoperative routines
4. Preparation for CST Exam

- a. Basic and related sciences
 - i. Anatomy and Physiology
 - ii. Pathophysiology
 - iii. Microbiology
 - iv. Pharmacology
 - v. Anesthesia
 - b. Biomedical sciences
 - A. Computers
 - B. Electricity
 - C. Robotics
 - c. Medical terminology
 - d. Aseptic technique
 - e. Wound healing
 - f. Individual review
 - g. Class review
5. Employability Skills
- a. Interview skills
 - b. Resume skills
6. Preparation for obtaining continuing education units

Resources

Association of Surgical Technologists, et al. *Surgical Technology for the Surgical Technologist: A Positive Care Approach*. 5th ed. Boston: Cengage Learning, 2018.

Association of Surgical Technologists, et al. *Surgical Technologist Certifying Exam Study Guide*. 3rd ed. Littleton, Co: Association of Surgical Technologists, 2015.

Dankanich, Nancy. *Operating Room Skills*. 2nd ed. Upsaddle River: 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: Mosby, 2023.

Pieknik, Rebecca. *Suture and Surgical Hemostasis*. 1st ed. St. Louis: 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: Elsevier Mosby, 2012.

Rutherford, Colleen J. *Differentiating Surgical Equipment and Supplies*. 3rd ed. Philadelphia: F. A. Davis, 2023.

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

Venes, Donald, ed. *Taber's Cyclopedic Medical Dictionary*. 23rd ed. Philadelphia: Davis, 2017.

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