



Course Name: Operating Room Skills Seminar

Course Number: SUR* E111

Credits: 4

Catalog description: The seminar provides the students with the opportunity to practice with supervision, the skills, techniques, standards, and principles that are taught in Operating Room Technique 101. This course prepares students for the clinical experience by teaching them the care and handling of surgical supplies, instruments, suture materials, and surgical drapes using hands on skills, simulation, and mock surgery for laparotomy and laparoscopic procedures. This seminar is not only an introduction to the operating room environment but includes a 5-week clinical rotation.

After passing the seminar skills competencies, students will have a clinical rotation as a member of the surgical team under direct supervision. The rotation gives the student the opportunity to build on didactic and clinical skills learned in the seminar. It focuses on minimally complex and specialty surgical procedures that take place in a clinical facility. This rotation is 19.5 hours per week over the last 5 weeks of SUR 111. Co-requisite SUR 110 & SUR 109 (Micro).

Prerequisite: Math 100 up, MED*E125, & BIO*E119; all with a C+ or higher

Corequisite, or Parallel:

General Education Competencies Satisfied:

HCC General Education Requirement Designated Competency Attribute Code(s):

None

Additional CSCU General Education Requirements for CSCU Transfer Degree Programs:

None

Embedded Competency(ies):

None

Discipline-Specific Attribute Code(s):

SCI Science elective

Course objectives:



General Education Goals and Outcomes:

None

Course Specific Objectives:

1. Select appropriate items for specialty packs.
2. Demonstrate proper opening of supplies & surgical techniques in the environment.
3. Practice using surgical instrumentation.
4. Demonstrate proper sharp handling and instrument passing.
5. Demonstrate scrubbing, gowning, and gloving using aseptic technique.
6. Demonstrate sterile setup.
7. Demonstrate draping using aseptic technique.
8. Demonstrate specimen and dressing handling
9. Demonstrate breakdown and room turnover.
10. Practice for competency evaluation for laparotomy and/or laparoscopic procedures.
11. Develop positive personal relationships within the operating room.
12. Conform to scheduled clinical hours and procedure times.
13. Adhere to professional standards and aseptic techniques.
14. Begin to anticipate the needs of the surgical team during minor procedures.
15. Demonstrate responsibilities to the patient and surgical team.
16. Begin to apply classroom learning in the surgical environment.
17. Identify principles of anatomy, physiology, pathophysiology, and microbiology perioperative patient care (Cognitive Domain: knowledge).
18. Define the elements, action, and use of medications and anesthetic agents used during the perioperative experience (Cognitive Domain: knowledge).
19. Follow safe practice in the role of Surgical Technologist (Affective Domain: receiving phenomena).
20. Show competence at a beginning level in technical skills and aseptic technique in the perioperative environment (Psychomotor Domain: set).
21. Comply with principles of effective communication and teamwork in the perioperative environment (Affective Domain: responding to phenomena).
22. Use responsible and accountable behavior within the role and competencies of the surgical technologist (Affective Domain: receiving phenomena).
23. Describe ethical, legal, moral, social, and cultural issues that impact upon patient care (Affective Domain: receiving phenomena).
24. Begin to organize the intraoperative environment as a member of the surgical team (Psychomotor Domain: set).
25. Recall learned knowledge and skills in the cognitive, psychomotor, and affective domains to become nationally certified as a Surgical Technologist (Cognitive Domain: knowledge).

COURSE CONTENT

Patient Care Procedures



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Preoperative Phase

- Patient Preparation; patient identification
- patient transfer/safety/positioning
- open gloving
- skin prep
- time out

Intraoperative Phase

- hemostatic devices
- specimens/irrigation

Fundamentals of Operating Room Technique

Aseptic Technique

Operating Room Safety

- Load and pass sharps safely

Preoperative Routines

- room preparation; gathering and opening supplies (pack assembly).
- operating room attire & personal protective equipment
- scrubbing, gowning, & closed gloving
- Set-up and prepare sterile field for laparotomy and laparoscopic procedures
- Prepares sponges
- Counts sponges, instruments and sharps

Intraoperative Routines

- Gowning/gloving others
- Drapes patient, furniture and equipment
- passing instruments, supplies, sharp handling.
- Dressing and drain application
- communication techniques

Postoperative Routines

- breaking down sterile field
- disposal biohazard& sharps
- interim sanitation
- preparation for next case
- emergency situations

Accessory Equipment

Skill demonstration in seminar competencies

Clinical Rotation-5-week, 19.5 hours per week

Teaching Method: Demonstration, practice, return demonstration, clinical practice, observation, research, presentations and group discussions

Evaluation and Grading:



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3 Competency assessments 30% (minimum of 75% each to continue in SUR 111)

4 Clinical research papers (see attached form) 20%

Third week clinical assessment 10%

- Students will meet with instructor at the third week of clinical experience to assess clinical progress and provide feedback on the level of achievement (rating) of each performance objective, areas of strength, and areas needing improvement and be given a plan for improvement. Assessments are based on the “criteria” in the criteria document. These assessments are documented on the “Third Week Assessment Form” and will be signed, and dated by faculty and student. A case review, documentation of case log (refer to below), and verification will be done at this time.

Final clinical evaluation – 40%

Evaluation and grading is done by the clinical instructors based on clinical objectives, on-site observations, and bi-weekly assessments.

100% of the clinical objectives are calculated according to the following weights:

Behavioral skills	10%
Time Management	10%
Aseptic Technique	25%
Anticipation of Needs	15%
Legal/Ethical	15%
Application of Learning	25%

Students must have a minimum-passing grade of 75% for the final clinical evaluation in order to pass the course.

Other Requirements:

Documentation of Case Log:

All clinical cases must be documented by student on the “Case Log”. During the third week assessment and final evaluation students must email the “Case Log” to the faculty for review and verification.

Directions: The Case Log Excel document will be sent to each student by email attachment prior to the clinical rotation as is used until graduation. The student completes the Excel “Case Log” document, submits it electronically, and meets with faculty at the third week and final assessments to review, initial and date verifying cases. The student documents the number of cases, case date, procedure, case type, and skill level (student’s role). The case type and the skill level contain a drop down feature for students to select type and level specific to case (see scrub skill levels/roles below). Far right of the worksheet there is a key identifying case requirements as a reference.

During these assessments, the faculty and student verify, initial, and date the “Case Log”



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document.

Scrub Skill Levels (Roles):

First Scrub Role

The following duties must be completed proficiently in order to count a case in the first scrub role:

- Verify supplies & equipment needed for the surgical procedure
- Set up the sterile field with instruments, supplies, equipment, medication(s) and solutions needed for the procedure
- Perform counts with the circulator prior to procedure and before the incision is closed.
- Pass instruments and supplies to the sterile surgical team members during the procedure.
- Maintain sterile technique as measured by recognized breaks in technique and demonstrate knowledge of how to correct with appropriate technique

Second Scrub Role

Student who is at the sterile field who has not met the first scrub role, but actively participates in surgical procedure in its entirety but completing any of the following:

- Sponging
- Suctioning
- Cutting suture
- Holding retractors
- Manipulating endoscopic camera

Observation Role

For students who are in the operating room performing roles that do not meet the criteria for first or second scrub roles; these cases are not part of required case count, but must be documented by the program.

Case Number Graduation Requirements:

- Total number of cases must complete=120
- General cases- 30 total, 20 in first scrub role, the remaining 10 cases may be in either the First or Second Scrub Role
- Surgical Specialty Cases-90, 60 in first scrub role, additional 30 cases in either the First or Second Scrub Role
 - Distributed amongst a minimum of 4 surgical specialties
 - A minimum of 10 cases in the First Scrub Role must be completed in each required minimum of four specialties (40 cases total required).
 - The additional 20 cases in the First Scrub Role may be distributed amongst any one specialty or multiple surgical specialties
- Optional surgical Specialties
 - Diagnostic endoscopy and vaginal delivery cases are NOT mandatory
 - 10 diagnostic endoscopic cases and 5 vaginal deliveries can be counted toward the maximum number of second scrub cases
- Case requirements in the Second Scrub Role are not mandatory
- Observation cases **must** be **documented** but do not count towards the 120 required cases

CLINICAL EXPECTATIONS



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It is the student's responsibility to obtain their assignments the morning of the clinical rotation.

All students are required to write a weekly research paper (see attached form) based on one non-duplicate surgical procedure performed. Pick sheet (with patient's name removed) if available should be attached to the research paper. Students should utilize preference/pick sheets, dictionary, text, etc. for research information. The paper is completed and submitted as an email attachment prior to 5am the next surgical rotation day. Late papers will not be accepted and a 0 given for the week.

NO patient names are to be on the research papers or pick sheets as per HIPAA requirements and therefore will not be accepted and a grade of 0 will be given.

Students going into the hospital must be dressed appropriately according to that clinical site policy and display appropriate identification.

Clinical hours are: 7:00am-1:30 p.m. Students must be changed and report to assigned area by 6:50 am. Clinical absences place students at risk for not graduating. In the event of illness, students must call clinical area and Program Director by 6:30am.

Make-up days must be discussed with Program Director and are permitted at the discretion of the Program Director. They must be completed by the end of the semester.

Lunch break is taken as case allows or when assigned mentors do.

Students must always be scrubbed with a mentor present.

Follow individual hospital policy for obtaining scrub attire.

Date Course Created: 3/2017

Date of Last Revision: 08/31/2017