



Course Name: Operating Room Technique

Course Number: SUR* E110

Credits: 4

Catalog description: This course is a theoretical introduction to the roles and responsibilities of the surgical technologist, the healthcare team, and the surgical environment. The course teaches basic principles of aseptic technique, fundamentals of surgical technology, and patient care concepts. This course incorporates surgical scrub, gowning, gloving, case preparation, patient care and safety. This course prepares students for entry level into the surgical environment and basic surgical procedures. Co-requisite SUR 109 & SUR 111

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. Identify the standards of practice in the perioperative environment and the roles of surgical personnel.
2. Identify the biopsychophysical needs of the surgical patient.
3. Describe the non-sterile preoperative skills of the surgical technologist.
4. Apply the principles of asepsis to the practice of sterile technique.
5. Describe the sterile preoperative skills of the surgical technologist.
6. Understand the sterile intraoperative skills of the surgical technologist.
7. Describe the postoperative skills of the surgical technologist.
8. Understand the methods utilized during perioperative case management.
9. Describe preoperative diagnostic techniques.
10. Describe the operative sequence for abdominal incisions and closure.
11. Describe the surgical procedures within the following specialty area:
general & rectal surgery
12. For each surgical specialty, describe the following:
relevant anatomy
indications for surgery
preoperative preparation & positioning
special instrumentation, equipment, drugs & supplies
method of anesthesia
skin preparation
draping
incision
procedure descriptions, including possible complications
intraoperative duties
special considerations

COURSE CONTENT

Preoperative & Intraoperative

Non-sterile

Attire

Pre-operative physical preparation of the patient

Pre-operative physical preparation of the operating room

Patient identification

Transportation

Review of the chart

Surgical consent



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Transfer
Positioning
Urinary catheterization
Skin preparation
Equipment
Instrumentation

Sterile

Asepsis and sterile technique
Hand hygiene and surgical scrub
Gowning and closed gloving
Surgical counts
Draping
Specimen care
Abdominal incisions
Hemostasis
Exposure
Catheters and drains
Wound closure
Surgical dressing
Wound healing
Tissue replacement materials
Emergency patient situations

Case Management

Perioperative concepts
Pre-operative case management
Intraoperative case management
Postoperative case management

Post-operative

Post Anesthesia Care Unit
Methods of disinfection and sterilization
Sterile storage and distribution
Environmental disinfection of the OR

Preoperative Diagnostic Techniques

History & Physical
Laboratory Studies
 Pathology
Diagnostic Imaging



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Radiology
Tomography
Ultrasonography
MRI
Endoscopic Studies

Abdominal Incisions

Types
Uses
Anatomy Review
Instrumentation
Wound Closure

General & Rectal Surgery

Diagnostic Procedures
Exploratory Laparotomy
Hernia Repair
Breast Procedures
Esophageal Procedures
Gastric Procedures
Bowel Procedures
Anorectal Procedures
Biliary Tract Procedures
Pancreatic & Splenic Procedures
Endoscopic & Laparoscopic Procedures

Teaching Methods: Lecture, Demonstration & Return Demonstration, Audio-Visual Aids, Observation, Assigned Readings, and Handouts

Grading: Exams: 10 Quizzes 80%, Final Examination 20%

Date Course Created: 3/2017

Date of Last Revision: 08/31/2017