COURSE INFORMATION FORM

DISCIPLINE: Surgical Technology
COURSE TITLE: Fundamentals of Surgical Technology II

CR.HR. 5  LECT HR. 3  LAB HR. 4  CLIN/INTERN HR.  CLOCK HR. 

CATALOG DESCRIPTION
Duties of the surgical technologist that include maintaining a safe client environment and emphasizes the role of the surgical technologist in the first scrub role. Common surgical techniques and procedures are introduced.

PREREQUISITES
SURT 100, SURT 103, SURT 105, SURT 109 and SURT 120

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:

1. Describe the principles of electricity and electrical flow.
2. Describe the surgical applications of robotics.
3. Differentiate among various methods of hemostasis.
4. Identify criteria used to select exposure.
5. Compare the various catheter and drainage devices.
6. Assess the factors that influence the closure of each wound layer.
7. Compare the commonly used surgical and specialty dressings.
8. Demonstrate basic wound care concepts and apply principles of asepsis to the practice of sterile technique.
10. Integrate variations of case management duties in an organized manner.
11. Demonstrate the duties of the assistant circulator including completion of documentation.
12. Demonstrate the handling and preservation for specific types of specimens.

GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

Outcome 2:
The curriculum design, course content and faculty will prepare students to function as entry level surgical technologists

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes may be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Assignments (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)
2. Written Examinations (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)
3. Skill Assessments (6, 9, 10)
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Case Management
   A. Perioperative concepts
   B. Preoperative case management
   C. Intraoperative case management
   D. Postoperative case management

II. Electricity
   A. Basic principles of electrical flow
   B. Types of current
   C. Electrical safety

III. Robotics
   A. Robotic system
   B. Other technologies

IV. Hemostasis
   A. Principles
   B. Methods of hemastasis
   C. Hemastasis techniques

V. Exposure
   A. Principles of retracting
   B. Selection of exposure devices
   C. Types and uses of retractors

VI. Wound Closure
   A. Specifications for suture material
   B. Selection of suture material
   C. Suture materials
   D. Suture preparation
   E. Packing of suture materials
   F. Suture size, material, color and length
   G. Suturing techniques
   H. Surgical needles
   I. Needle accountability
   J. Surgical speciality needles
   K. Surgical staplers
   L. Ligating clips
   M. Tissue adhesives
   N. Tissue repair materials

VII. Tissue Replacement Materials
A. Biologic wound cover  
B. Bone materials  
C. Tissue transplants  
D. Synthetic materials  
E. Storage of tissue replacement materials  

VIII. Wound Healing  
A. Types of wounds  
B. Types of wound healing  
C. Considerations  
D. Inflammatory process  
E. Phases of wound healing  
F. Factors influencing wound healing  
G. Surgical site infections  
H. Complications  
I. Wound classifications  

IX. Catheters and Drains  
A. Concepts of catheter wound drainage  
B. Surgical catheters  
C. Indwelling intravenous catheters  
D. Collection devices  
E. Surgical drains  
F. Anchoring methods  
G. Safety precautions  

X. Surgical Dressings  
A. Function  
B. Preparation for dressing application  
C. Dressing types  
D. Rigid dressings  
E. Specialty dressings  
F. Packing dressings  

XI. Specimens  
A. Methods of obtaining specimens  
B. Specimen handling  
C. Specimen containers  
D. Specimen labeling  
E. Specific types of specimens and their care  
F. Specimen transfer and storage  
G. Incidents