

SOUTHEAST COMMUNITY COLLEGE
HEALTH SCIENCES DIVISION
SURGICAL TECHNOLOGY
Revision Date: 03/2023

I. CATALOG DESCRIPTION

Course Number: SURT1630
Course Title: Surgical Procedures & Techniques 1
Prerequisite(s): Admission to the Surgical Technology Program

Catalog Description: The study of basic pathophysiology, surgical incisions, wound healing as well as wound classification as it relates to surgical intervention. The study of medical microbiology for surgical technologists, emphasizing the isolation and identification of common pathogenic bacteria and normal flora in different body sites. Theory and procedures for culturing, isolating and identifying microorganisms, parasites and fungi from human specimens. The introduction of surgical procedures to include: concepts, techniques, anatomy, procedural sequence, definitions, purpose etiology, supplies and equipment relating to basic general surgery, gastrointestinal, biliary, rectal, gynecologic, plastics, and oral maxillofacial surgical specialties.

Credit Hours: 6
Class Hours: 90
Lab Hours: 0
Total Contact Hours: 90

II. COURSE OBJECTIVES: *Course will:*

1. Associate the related anatomy and physiology knowledge learned to the specialties covered within the course.
2. Discuss the etiology present within each surgical procedure including surgical intervention, wound healing, and laparotomy concepts.
3. Introduce the Surgical Technology student to the surgical procedures relating to general, gastrointestinal, biliary, rectal, gynecology and plastic surgeries, and oral maxillofacial.
4. Prepare the Surgical Technology student for the skills needed to assist within the above listed specialties.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

A. STUDENT LEARNING OUTCOMES: *Student will be able to:*

1. Correlate the impact of microbiology concerning the practice of sterile technique and infection control in the operative setting.
2. Identify the name and function of various parts of the compound microscope.

3. Compare and contrast the structure and characteristics of different microorganisms.
4. Analyze the various immune responses that occur in the body as defenses against invasion by pathogens.
5. Relate the infectious process to surgical practice.
6. Relate pathophysiology to surgical interventions.
Analyze the relationship between cell pathology and disease.
7. Examine hemodynamic disorders, inflammation, and infection.
8. Compare and contrast the various surgical pathologies of each body system.
9. Identify the anatomy as related to each type of incision.
10. Distinguish among the various types of incisions.
11. Define the types of wound closure.
12. Define the terminology related to wound healing.
13. Describe the various types of wounds.
14. Analyze the mechanisms of wound healing.
15. Evaluate the classification of surgical wounds.
16. Analyze the factors that influence wound healing.
17. Describe the complications that interrupt normal wound healing.
18. Identify surgical incision selection based upon proper planning.
19. Describe the principles of exposure.
20. Identify the purposes of the various types of equipment.
21. Review the uses of the various types of equipment.
22. Describe the perioperative handling of equipment.
23. Apply knowledge of surgical instrumentation to specific surgical specialties.
24. Evaluate perioperative instrumentation handling concepts.
25. Identify surgical supplies.
26. Explain the usage of surgical supplies.
27. Explain the principles of handling the various types of surgical supplies.
28. Evaluate the selection of surgical supplies.
29. Demonstrate the role of the surgical technologist in the application of surgical supplies.
30. For surgical procedures discussed in the General, Obstetrical & Gynecology, Plastics, and Oral Maxillofacial specialty areas the student will be able to:
 - A. Apply medical terminology as it relates to each procedure.
 - B. Compare and contrast the approach for each procedure.
 - C. Review the anatomy and physiology for each procedure.
 - D. Discuss the diagnostic procedures and pathology used to obtain a diagnosis.
 - E. Describe preoperative patient preparation and considerations for each procedure.
 - F. Discuss the operative sequence for each procedure.
 - G. Recognize the necessary supplies, instrumentation, and equipment for each procedure.
 - H. Evaluate the use of medications for each procedure.
 - I. Identify the wound classifications for each procedure.
 - J. Discuss postoperative care, considerations, and potential complications for the surgical patient.

B. GENERAL EDUCATION LEARNING OUTCOMES

1. GELO 3: Critical Thinking and Problem Solving

Outcome: Synthesize information to arrive at reasoned solutions to problems.

II. CONTENT/TOPICAL OUTLINE:

A. UNITS

1. Microbiology Part 1 and Part 2
2. Pathophysiology
3. Wound Healing, Surgical Incisions, and Resection Concept
4. Laparotomy and Laparoscopy
5. General Surgery Part 1, 2, and 3
6. Gynecology Surgery Part 1 and Part 2
7. Plastic Surgery Part 1 and Part 2
8. Oral Maxillofacial Surgery

III. INSTRUCTIONAL MATERIALS REQUIRED

A. Required Text(s):

Association of Surgical Technologists. *Surgical Technology for the Surgical Technologist* (current edition)

Pieknik, R. *Suture and Surgical Hemostasis; A Pocket Guide* (current edition)

Nemitz, Renee. *Surgical Instrumentation: An Interactive Approach* (current edition) Goldman,

M. A. *Pocket Guide to the Operating Room* (current edition)

IV. METHODS OF PRESENTATION/INSTRUCTION

A. Methods of presentation typically include a combination of the following:

Lecture with Power Point slides, Videos, Demonstration, Handouts, Syllabus objectives, Class participation, Role playing, Small Group Work, and Assigned Readings in Textbooks.

V. METHODS OF EVALUATION

SCC STANDARD GRADING SCALE POLICY:

A+	95-100	C+	75-79
A	90-94	C	70-74
B+	85-89	D+	65-69
B	80-84	D	60-64
		F	Below 60

VI. SPECIFIC COURSE REQUIREMENTS

For specific course requirements please see the Course Information Document (CID) and Program Handbook.

Minimum passing final grade for this course is a 75% (C+). Below 75% = recycle and repeat the course. This course cannot be taken as PASS/FAIL.