

**Bossier Parish Community College  
Master Syllabus**

**Course Prefix and Number:** STEC 100

**Credit Hours:** 2

**Course Title:** Foundations of Surgical Technology

**Course Prerequisites:** BLGY 110, BLGY 120, BLGY 120L, ALHT 109, ALHT 116, ALHT 116 and admission to the Surgical Technology clinical program

**Clock Hours:** 30

**Textbook:** Fuller, Joanna K.; Surgical Technology Principles and Practice, 7<sup>th</sup> edition, with workbook.

**Course Description:**

This course provides an initial orientation to the field of Surgical Technology. It introduces the student to the role of the surgical technologist, the operating room (OR) environment, medical ethical and legal issues, communication and teamwork. Enrollment in the Surgical Technology Program courses is limited to those students who have been selected and admitted to the program. Program courses are sequenced by semester and must be taken as a group each semester per program requirements and policies.

**Methods of Teaching:** Lecture, discussion, textbooks, audio-visual

**Learning Outcomes:**

At the end of this course, the student will

- A. relate the role of the surgical technology profession to the dynamics of the surgical team and the functioning, organization and administration of the hospital;
- B. interpret the various needs (physiological, environmental, psychosocial, and cultural) of the surgical patient;
- C. demonstrate the layout, movement, and safety requirements within the OR environment;
- D. apply proper communication techniques and demonstrate good team-work; and
- E. utilize critical thinking to apply ethical and bioethical principles to patient care in the OR setting.

To achieve the learning outcomes, the student will

1. describe the development of surgical technology after World War II. (A)
2. describe the process of certification for the surgical technologist. (A)
3. discuss career opportunities available to the surgical technologist. (A)

4. list personal attributes for success as a surgical technologist. (A,D)
5. describe the differences among certification, licensure, and registration. (A)
6. identify the duties of the surgical technologist. (A)
7. describe the difference between delegation and assignment. (A)
8. describe patient-centered care. (B)
9. discuss Maslow's hierarchy of needs and its relationship to patient care. (B)
10. define patient-centered care. (B)
11. demonstrate how the surgical technologist can meet specific patient physiological needs. (B)
12. describe patient environmental needs and how to meet them. (B)
13. list the needs of specific patient groups. (B)
14. describe the psychosocial needs of the patient. (B)
15. practice therapeutic communication. (B,D)
16. describe the differences of special needs patients. (B)
17. discuss the importance of culturally appropriate patient care. (B)
18. describe different kinds of health-care facilities. (C)
19. discuss how hospitals are administered. (A,C)
20. define hospital policy. (A,C)
21. describe the process of accreditation. (A,C)
22. list common hospital ancillary services and describe their functions. (A,C)
23. describe an organizational chart and explain its significance in an organization. (A,C)
24. identify operating room staff members and their duties. (A,C)
25. describe the purposes of the operating room design. (C)
26. describe traffic flow patterns in the operating room. (C)
27. describe specific design features of the surgical suite. (C)
28. differentiate restricted, semirestricted, and nonrestricted areas of the OR. (C)
29. discuss environmental controls in the surgical suite and why they are important. (C)
30. describe the meaning of content and tone in communication. (D)
31. demonstrate body language and describe its meaning. (D)
32. discuss the significance of touch in communication. (D)
33. role-play situations to demonstrate assertive behavior. (D)
34. describe the dimensions of assertive behavior. (D)
35. use active listening skills. (D)
36. discuss types of problem behavior and how to cope with them. (D)
37. define sexual harassment and discuss how to confront it. (D)
38. describe the qualities of good teamwork. (D)
39. describe how poor teamwork results in poor patient care. (D)
40. discuss how to approach problem behavior in the workplace. (D)
41. describe three approaches to conflict solving and give examples. (D)
42. differentiate between law, standards of practice, and codes of conduct. (E)
43. apply evidence-based practice to all areas of clinical duty. (E)
44. access resources related to legal doctrines in the perioperative environment. (E)
45. define sentinel event. (E)
46. identify common areas of negligence. (E)
47. discuss the importance of documentation. (E)
48. explain informed consent. (E)

49. describe how to write an incident report. (E)
50. describe types of advanced care directives. (E)
51. discuss ethics and define and discuss ethical dilemma. (E)
52. complete assigned sections of the student workbook. (A, B, C, D, E)

**Course Requirements:** To earn a grade of “C” or higher the student must earn 70% of the total points for the course and meet all of the following course requirements.

- minimum of 75% on each test

### **Outcome Assessment Methods:**

Written exams

### **Course Grading Scale:**

- A- 90% or more of total points with at least a 75% on each test including the comprehensive final exam and completion of observation assignment
- B- 80% or more of total points with at least a 75% on each test including the comprehensive final exam and completion of observation assignment
- C- 70% or more of total points with at least 75% on each test including the comprehensive final exam and completion of observation assignment
- D- 60% or more of total points
- F- less than 60% of total points or less than 75% on any test or less than 75% on the comprehensive final exam or failure to complete the observation assignment

**Attendance Policy:** The college attendance policy (for the classroom) is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>, and allows that “more restrictive attendance requirements may apply to some specialized classes such as laboratory, activity, and clinical courses because of the nature of those courses.” The attendance policy of the Surgical Technology program is described in the Surgical Technology Clinical Handbook.

### **Nondiscrimination Statement**

Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

#### COORDINATOR FOR SECTION 504 AND ADA

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## **Course Content Outline**

### Chapter 1: The Surgical Technologist

- I. History of Surgical Technology
  - A. Association of Surgical Technologists
  - B. Affiliate Organizations
- II. Accountability
  - A. Registration
  - B. Certification
  - C. Licensure
  - D. Professional Standards of Practice
- III. Training and Certification for Surgical Technologists
  - A. Program Accreditation
  - B. Certification
  - C. Certification by the National Center for Competency Testing
  - D. National Certifying Examination for Surgical Technologists
  - E. Continuing Education
  - F. Clinical Ladder Program
- IV. Careers for Certified Surgical Technologists
  - A. Hospital-Based Technologist
  - B. Military Practice
  - C. Specialty Practice
  - D. Surgical First Assistant
  - E. Educator and clinical Instructor
  - F. Medical industry Representative
  - G. Materials Management and Processing
  - H. Research Product and Development
- V. Role of the Surgical Technologist
  - A. Integration of Roles
  - B. Tasks and Responsibilities of the Surgical Technologist
- VI. Desirable Attributes of the Surgical Technologist
  - A. Care and Empathy
  - B. Respect for Others
  - C. Emotional Maturity

- D. Honesty and Ethical Behavior
- E. Manual Dexterity
- F. Organizational Skills
- G. Ability to Concentrate
- H. Problem-Solving Skills
- I. Sense of Humor

#### VII. Surgical Technologist's Scope of Practice

#### VIII. Tasks and Delegation

- A. Dependent and Independent Tasks
- B. Delegation

### Chapter 2: Communication and Teamwork

#### I. Communication

- A. Why Study Communication
- B. Elements of Communication
- C. Verbal Communication
- D. Nonverbal Communication
- E. Cultural Differences
- F. Qualities of Good Communication
- G. Barriers to Communication
- H. Stressors in the Perioperative Environment
- I. Verbal Abuse
- J. Horizontal Abuse
- K. Problem Behaviors
- L. Sexual Harassment

#### II. Teamwork

- A. Types of Teams
- B. Characteristics of Good Teamwork
- C. Team Conflict
- D. Managing Teams
- E. The Surgical Technologist Preceptor

### Chapter 5: The Patient

#### I. Maslow's Hierarchy of Needs

- A. Physiological Domains
- B. Protection
- C. Relational and Personal Domains

#### II. Psychological Needs of the Patient

- A. Fear
- B. Loss of Security
- C. Role and Self-Image

#### III. Therapeutic Communication

- A. Characteristics of Therapeutic Communication

- B. Therapeutic Response
- C. Therapeutic Touch
- IV. Cultural Competence
- V. Spiritual Needs of the Patient
- VI. Special Patient Populations
  - A. Pediatric Patients
  - B. Elderly Patients
  - C. Patient with Sensory Impairments
  - D. Malnourished Patients
  - E. Patients with Diabetes
  - F. Immunosuppressed Patients

#### Chapter 4: The Health Care Facility

- I. Operating Room Environment
  - A. Principles of Operating Room Design
  - B. Physical Environment
  - C. Surgical Suite
  - D. Environmental Controls
  - E. Special Procedure Room
  - F. Integrated Operating Room Systems
  - G. Other Working Areas
  - H. Hospital Departments and Functions
- II. Personnel in the Health Care Environment
  - A. Administration and Policy
  - B. Accreditation
  - C. Health Care Policy
  - D. Management Structure
  - E. Organizational Chart (Organigram)
  - F. Chain of Command
  - G. Staff Roles and Job Descriptions

#### Chapter 15: Death and Dying

- I. Defining the End of Life
- II. Models of Death and Dying
- III. Support and comfort for the Dying and Bereaved
  - A. Patient
  - B. Family
  - C. Sudden Unexpected Death
- IV. Ethical Considerations in Death and Dying
  - A. Self-Determination
  - B. Right to Die
  - C. Advance Directives
  - D. Conflicts in Palliative Care
  - E. Organ Donation

- V. Cultural Responses to Death and Dying
  - A. Spiritual and Religious Concepts
- VI. Death in the Clinical Setting
  - A. Determination of Death
- VII. Postmortem Care
  - A. Natural Changes in the Body after Death
  - B. General Postmortem Procedures
  - C. Coroner's Cases
  - D. Organ and Tissue Procurement
- VIII. Emotional Needs of the health Professional

#### Chapter 14: Postanesthesia Recovery

- I. PACU Facility
- II. PACU Procedures
  - A. Admission
  - B. Handover (Hand-off)
  - C. Patient Assessment
  - D. Respiratory System
  - E. Circulation
  - F. Core Temperature
  - G. Abdomen
  - H. Fluid and Electrolyte Balance
  - I. Neurological Function
  - J. Muscular Response
  - K. Renal Function
  - L. Wound Assessment
  - M. Catheters and Tubing
  - N. Psychosocial Care
- III. Postoperative Complications
  - A. Pain
  - B. Respiratory
  - C. Cardiovascular
  - D. Metabolic Complications
  - E. Nausea and Vomiting
  - F. Alterations of Consciousness
- IV. Elements of Discharge Planning
  - A. Discharge Criteria
  - B. General Planning
  - C. Transport
  - D. Home Nursing Care
  - E. Patient Education
- V. Unanticipated PACU Outcomes
  - A. Failure to Meet Discharge Criteria
  - B. Discharge Against Medical Advice
  - C. Death in the PACU

### Chapter 3: Law, Documentation and Professional Ethics

- A. Law and Surgical Technologist
- B. Institutional Standards and Policy
- C. Professional Standards and Practices
- D. Legal Doctrines
- E. Negligence
- F. Institutional Torts
- G. Documentation
- H. Risk Management
- I. Ethics
- J. Ethical Behaviour in Healthcare
- K. Combined Ethical and Legal Concerns
- L. Ethical Dilemmas Professional Codes of Conduct
- M. Patients' Rights

Reviewed by: A. Smith, March 3, 2020