

ST 100 Introduction to Surgical Technology

Credit Hours: 6 HRS

Scheduled hours per week:

Lecture: 2 HRs

Lab: 4 HRS

Clinical Laboratory: 6 HRS

Catalog Course Description: This course is designed to introduce the student to the role, working environment, and required skills of the ST. Asepsis, sterile technique, and surgical case management are emphasized in structured campus laboratory and in the clinical setting.

Pre-requisites: Admission to the program

Pre/Co-requisites: ST 102, BIOL 109, Math 120

Course Learning Outcomes:

1. Identify surgical case management and describe the principles of peri-operative organization.
2. Indicate the psycho-social needs in special populations of surgical patients.
3. Read about legal-ethical concepts that influence the role of the surgical technologist.
4. Select communication techniques that enhance interpersonal relationships in the surgical environment.
5. Recognize the responsibility for professional development as a health care provider.

Topics to be studied:

1. Introduction to the professional practice of the surgical technologist
 - a. Roles and responsibilities
 - b. Scope of practice
 - c. Code of ethics
2. Principles of Surgical technology
 - a. Pre-operative
 - i. Non-sterile
 1. Attire
 2. Pre-operative preparation of patient
 3. Patient identification
 4. Transportation
 5. Review of the chart
 6. Surgical consent
 7. Transfer
 8. Positioning
 9. Urinary catheterization
 10. Skin preparation
 11. Equipment
 12. Instrumentation
 - ii. Sterile
 1. Asepsis and sterile technique
 2. Hand hygiene and surgical scrub
 3. Gowning and gloving
 4. Surgical counts

5. Draping
- b. Intra-operative sterile
 1. Specimen care
 2. Abdominal incisions
 3. Hemostasis
 4. Exposure
 5. Catheter and drains
 6. Wound closure
 7. Surgical dressings
 8. Wound healing
 9. Tissue replacement materials
 10. Emergency patient situations
- c. Post-operative sterile
 - i. Post-anesthesia care unit (PACU)
 - ii. Methods of disinfection and sterilization
 - iii. Sterile storage and distribution
 - iv. Environmental disinfection of the OR
- d. Peri-operative case management
- e. Assistant circulator role
- f. Surgical rotation case requirements
 - i. General surgery
 - ii. Surgical specialties
 - iii. Diagnostic endoscopy
 - iv. Labor and delivery
 - v. First and second scrub role and observation definitions
- g. Health care facility information
 - i. Health care facility organization and management
 - ii. Physical environment
 - iii. All hazards preparation
- h. Summative lab skills assessments
 - i. Surgical technologist in the scrub role
 - ii. Surgical technologist in the assistant circulator role
 - iii. Disinfection and sterilization

Relationship of Course to Program or Discipline Learning Outcomes:

The course learning objectives for ST 100 introduce the student to each of the concepts related to the five (5) program outcomes designated by the Surgical Technology Program.

Relationship of Course to General Education Learning Outcomes:	
Composition and Rhetoric Students illustrate a fundamental understanding of the best practices of communicating in English and meet the writing standards of their college or program-based communication requirements.	X
Science & Technology Students successfully apply systematic methods of analysis to the natural and physical world, understand scientific knowledge as empirical, and refer to data as a basis for conclusions.	X
Mathematics & Quantitative Skills Students effectively use quantitative techniques and the practical application of numerical, symbolic, or spatial concepts.	
Society, Diversity, & Connections Students demonstrate understanding of and a logical ability to successfully analyze human behavior, societal and political organization, or communication.	X
Human Inquiry & the Past Students interpret historical events or philosophical perspectives by identifying patterns, applying analytical reasoning, employing methods of critical inquiry, or expanding problem-solving skills.	X
The Arts & Creativity Students successfully articulate and apply methods and principles of critical and creative inquiry to the production or analysis of works of art.	
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Special requirements of the course:

- Rotation through surgical service departments
- Observation of surgical procedures
- Computer and internet access is required

Additional information:

- Physical examination with required immunizations or waiver as indicated
- Current Health Care Provider CPR Certification, the American Heart Association Health Care Provider (with use of AED)
- Background Check
- Randomized, mandatory drug screening without notice
- Travel required to area clinical settings
- Required education as determined by the faculty and affiliate health care agencies

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