

# Surgical Technology

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## **ST109 Pharmacology for the Surgical Technologist**

**Cr-2**

This course covers general principles of pharmacology related to the surgical technologist in the perioperative environment. Topics include drug sources, classifications, and regulatory issues, indications for use, complications, adverse reactions, and routes of administration, calculation, and medication handling. Emphasis on the relationship of drugs to the surgical patient. Anesthesia and emergency situations are stressed. Prerequisite: HM100 Medical Terminology for Health Professionals

## **ST120 Surgical Instrumentation**

**Cr-2**

This course introduces students to common surgical instrumentation. Topics include instrument identification, function and grades, and proper instrumentation handling and usage in various surgical services. Suture material and needles by type and function are also covered.

## **ST130 Sterile Processing and Surgical Technology**

**Cr-3**

This course introduces students to the functions and responsibilities of surgical technologists and sterile processing technicians. Topics include supply and equipment preparation for surgery and the safe usage, care, decontamination and sterilization of surgical instruments. Students are familiarized with the structure and design of the operating room as well as operating room safety precautions, infection control standards, healthcare law, and professional ethics. Corequisite: ST131 Fundamentals of Surgical Technology

## **ST131 Fundamentals of Surgical Technology**

**Cr-3**

This course introduces students to the procedures used to prepare patients for surgery. Topics include preparation of the surgical site, draping, wound management, vacuums, catheters, drains, and hemostatic agents. Students gain hands-on experience with the various machines and equipment used for surgery and are introduced to the precautions taken during electro-surgery and laser surgery. Corequisite: ST130 Sterile Processing and Surgical Technology

## **ST140 Surgical Technology Skills & Procedures 1**

**Cr-3**

This course provides an introduction to general, laparoscopic, and robotic surgical procedures. Course emphasizes proper surgical procedures for various anatomical regions. Students are provided hands-on experiences preparing surgical trays and performing the steps taken by surgical technologists during surgery. Prerequisite: ST131 Fundamentals of Surgical Technology

## **ST141 Surgical Technology Skills & Procedures 2**

**Cr-3**

This course provides the student with basic knowledge of surgical procedures. Topics include orthopedic, neurosurgery, plastic surgery, ophthalmic, cardiac, pediatric, thoracic, and vascular surgery. Previously learned and mastered skills will be integrated in this course. The student will be provided with hand-on experience in preparing the necessary surgical trays for these procedures and then practice following the steps involved in the surgical procedures from beginning to end. Prerequisite: ST140 Surgical Technology Skills & Procedures 1

## **ST220 Sterile Processing Clinical Practice**

**Cr-6**

This course partners students with experienced sterile processing technicians. As students transition to a more active role, they will concentrate in the cleaning and sterilization of surgical instruments and other medical equipment. Students are expected to interact with

personnel from all areas of the hospital and be involved in distribution of medical supplies throughout the healthcare facility. Prerequisite: ST120 Surgical Instrumentation

## **ST230 Surgical Technology Clinical Practice 1**

**Cr-6**

This course partners students with Surgical Technicians in a clinical setting. Primary surgical specialties are general surgery, OB/GYN, orthopedic, otorhinolaryngology, and genitourinary. As students transition to a more active role, surgical interventions include special patient care considerations, room set ups, anesthesia, positioning, skin prep, draping, incision and approach, supplies, equipment instrumentation, procedural steps, counts, dressing materials, specimen care, and postoperative destination and care. Prerequisite: ST220 Sterile Processing Clinical Practice

## **ST240 Surgical Technology Clinical Practice 2**

**Cr-7**

This course is the continuation of ST230 Surgical Technician Clinical Practice 1. This course partners students with experienced Surgical Technicians. Primary surgical specialties are general surgery, OB/GYN, orthopedic, otorhinolaryngologic, and genitourinary. As students transition to a more active role, surgical interventions include special patient care considerations, room set ups, anesthesia, positioning, skin prep, draping, incision and approach, supplies, equipment instrumentation, procedural steps, counts, dressing materials, specimen care, and postoperative destination and care. Prerequisite: ST230 Surgical Technology Clinical Practice 1