

# SURGICAL TECHNOLOGY (SURG)

---

## **SURG-100 Introduction to Surgical Technology** **2 Credits**

**Lecture:** 2 hours per week

**Offering:** Spring Only, All Years

This course provides an introduction to the field of surgical technology. Students learn the history of surgery and surgical technology, roles of the surgical team, professional organizations related to surgery, credentialing of the surgical technologist, and the surgical environment. Students will gain knowledge of career opportunities, legal, ethical, and moral issues, hospital administration and organization, and professional behaviors including engaging in effective interpersonal relations and interactions.

## **SURG-105 Care of the Surgical Patient** **2 Credits**

**Lecture:** 2 hours per week

**Offering:** Fall Only, All Years

This course covers basic concepts related to preoperative care including both physical and psychosocial needs of the surgical patient. Students learn physical transportation and positioning of the surgical patient, chart review, and documentation needs.

**Prerequisites:** BACT-250, BIOL-175 BIOL-227 or BIOL-228, CAOT-179, One GEM 3 course, SURG-100

**Corequisites:** SURG-120, SURG-130

## **SURG-109 Pharmacology for the Surgical Technologist** **2 Credits**

**Lecture:** 2 hours per week

**Offering:** Spring Only, All Years

This course focuses on the use and stages of anesthesia. Students learn the attributes, preparation, and calculation of drugs and solutions commonly used during surgical procedures.

**Prerequisites:** SURG-100, SURG-105, SURG-120, SURG-130

**Corequisites:** SURG-121, SURG-131, SURG-140

## **SURG-120 Fundamentals of Surgical Technology I** **6 Credits**

**Lecture:** 4 hours per week, **Lab:** 6 hours per week

**Offering:** Fall Only, All Years

This course focuses on applied principles of medical and surgical asepsis in the operating room. Students learn to prepare and maintain the sterile field including identification, care, and handling of instruments, suture, supplies, and equipment.

Emphasis is on basic skills of the surgical technologist in preparation for and during the operative procedure.

**Prerequisites:** SURG-100

**Corequisites:** SURG-105, SURG-120L, SURG-130

## **SURG-120L Fundamentals of Surgical Technology I Lab** **0 Credits**

**Lab**

**Offering:** Fall Only, All Years

This course is a corequisite lab for SURG-120.

**Corequisites:** SURG-120

## **SURG-121 Fundamentals of Surgical Technology II** **3 Credits**

**Lecture:** 2 hours per week, **Lab:** 3 hours per week

**Offering:** Spring Only, All Years

As a continuation of SURG-120, this course offers a study of the use of robotics, endoscopic instruments, lasers, and specialty equipment. In addition, students will learn the principles of electricity and physics, various tissue replacement materials, management of emergency situations, and methods of disinfection and sterilization.

**Prerequisites:** SURG-105, SURG-120, SURG-130

**Corequisites:** SURG-121L, Take SURG-109, Take SURG-131, Take SURG-140

## **SURG-121L Fundamentals of Surgical Technology II Lab** **0 Credits**

**Lab**

**Offering:** Spring Only, All Years

This course is a corequisite lab for SURG-121.

**Corequisites:** SURG-121

## **SURG-130 Surgical Procedures I** **4 Credits**

**Lecture:** 4 hours per week

**Offering:** Fall Only, All Years

This course provides the foundational knowledge of surgical core and specialty procedures. It examines the pathophysiology, diagnostic interventions, and surgical interventions for a variety of surgical procedures. Emphasis is on surgical procedures related to general, minimally invasive, obstetrics/gynecology, genitourinary, otorhinolaryngology, and orthopedic surgical specialties. The course also incorporates an introduction to instruments, equipment, and supplies required for perioperative case management. Content also includes post-operative care and complications of the surgical patient.

**Prerequisites:** SURG-100

**Corequisites:** SURG-105, SURG-120

## **SURG-131 Surgical Procedures II** **4 Credits**

**Lecture:** 4 hours per week

**Offering:** Spring Only, All Years

This course examines the pathophysiology, diagnostic interventions, and surgical interventions for a variety of surgical procedures. Emphasis is on oral maxillofacial, ophthalmic, cardiothoracic, peripheral vascular, and neurosurgery surgical procedures. The course incorporates an introduction to instruments, equipment, and supplies required for perioperative case management. Content also includes post-operative care and complications of the surgical patient.

**Prerequisites:** SURG-105, SURG-120, SURG-130

**Corequisites:** SURG-109, SURG-121, SURG-140

**SURG-140 Clinical Experience I**

**6 Credits**

**Internship:** 18 hours per week

**Offering:** Spring Only, All Years

This course is a directed practice in an affiliated clinical facility. The student will be assigned to specific preceptors to perform in the function of a surgical technologist. The student will actively assist in selection of equipment and supplies, perform surgical scrub, and become a functioning member of a sterile team. The student will progress through surgical specialties developing and enhancing skills needed to function as a practicing surgical technologist.

**Prerequisites:** SURG-100, SURG-105, SURG-120, SURG-130

**Corequisites:** SURG-109, SURG-121, SURG-131

**SURG-141 Clinical Experience II**

**8 Credits**

**Internship:** 24 hours per week

**Offering:** Summer Only, All Years

This course is a directed practice in an affiliated clinical facility. As a continuation of SURG-140, the student will be assigned to specific preceptors to perform in the function of a surgical technologist. The student will actively assist in selection of equipment and supplies, perform surgical scrub, and become a functioning member of the sterile team. The student will progress through surgical specialties developing and enhancing skills needed to function as a practicing surgical technologist.

**Prerequisites:** SURG-109, SURG-121, SURG-131, SURG-140

**Corequisites:** SURG-150

**SURG-150 CST Exam Review/Leadership**

**3 Credits**

**Lecture:** 3 hours per week

**Offering:** Summer Only, All Years

This course provides a discussion of topics of special interest to surgical technologists. Topics of focus include resume writing, maintenance of professional credentials through professional development, interviewing skills, and review for the National Certification Exam. Students will complete the NBSTSA Comprehensive (Secure) CST Practice Exam at the end of the course.

**Prerequisites:** SURG-109, SURG-121, SURG-131, SURG-140

**Corequisites:** SURG-141