

SURGICAL TECHNOLOGY (SURG)

SURG-101 Foundations of Surgical Technology **4 Credits**

Lecture: 4 hours per week

Offering: Spring Only, All Years

This course introduces the roles of the various surgical team members and orients students to the basic organization of healthcare facilities. Topics include the study of the perioperative healthcare team and its language; the evolution and basic principles of patient care; ethical, moral, and legal responsibilities; and the physical characteristics of the operating room suite, as well as, the responsibilities of assisting with the preparation, transportation, and positioning of the surgical patient.

SURG-112 Disease Process and Pharmacology **4 Credits**

Lecture: 4 hours per week

Offering: Fall and Spring Only, All Years

This course focuses on common microbes, pathologies, and pharmacologic agents as related to the surgical patient. Topics in this course include: 1) how the body's normal structure and function can be altered, 2) how the body responds to these disruptions in structure and function (i.e. cause and effect), and 3) current approaches to the treatment of these disruptions using drugs. In the emphasis of treatment, particular attention will be given to the area of surgical pharmacology including drug categories, actions, reactions, and interactions within the surgical patient.

Prerequisites: BIOL-175 or BIOL-228, SURG-101

Corequisites: SURG-120, SURG-130

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

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

Offering: Fall and Spring 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: BIOL-175 or BIOL-228, SURG-101

Corequisites: SURG-112, SURG-120L, SURG-130

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

Lab

Offering: Fall and Spring 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: Fall and 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-112, SURG-120, SURG-130

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

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

Lab

Offering: Fall and 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 and Spring 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: BIOL-175 or BIOL-228, SURG-101

Corequisites: SURG-112, SURG-120

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

Lecture: 4 hours per week

Offering: Fall and 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-112, SURG-120, SURG-130

Corequisites: SURG-121, SURG-140

SURG-140 Clinical Experience I**6 Credits****Internship:** 18 hours per week**Offering:** Fall and 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-112, SURG-120, SURG-130**Corequisites:** SURG-121, SURG-131**SURG-141 Clinical Experience II****8 Credits****Internship:** 24 hours per week**Offering:** Spring and 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-121, SURG-131, SURG-140**Corequisites:** SURG-150**SURG-150 CST Exam Review/Leadership****3 Credits****Lecture:** 3 hours per week**Offering:** Spring and 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-121, SURG-131, SURG-140**Corequisites:** SURG-141