

SURGICAL TECHNOLOGY

The Surgical Technology program provides an opportunity for the students to learn the basic skills necessary to become an integral member of the surgical team. Surgical technologists maintain the operating room by selecting and opening supplies, assembling equipment for surgical procedures, and by providing the necessary sterile items to the surgeon in an efficient manner. Upon satisfactory completion of the program the student may earn the "CST" certification credential by passing a nationally-administered exam.

Prospective students must have a high school diploma or GED.

Prerequisites for program admission include a grade of "C" or better in an approved Anatomy and Physiology course with lab (6 credit hours or more) from an HLC-accredited college within the past 5 years and current CPR certification. Other recommended college-level courses are medical terminology and microbiology.

This program will offer students preparation to test for the industry-recognized credentials listed below.

Note: The 2020-2021 Academic Year will be the last year that the Surgical Technology program will be solely a tech certificate. Starting with the 2021-2022 Academic Year, the profession will require that students earn an Associate Degree at Washburn University through the School of Applied Studies prior to finishing work required for the Surgical Technology certificate.

Program Information

- Required Math Score: Level 5
- Required Reading Score: Level 6
- Program Start (semesters): August
- Financial Aid available (for post-secondary students only): Yes
- Veteran Benefits Eligible (for post-secondary students only): Yes
- Industry-recognized credentials: Certified Surgical Technologist

Certificate Requirements

Code	Title	Hours
Prerequisite Courses		
HCT 132	Anatomy & Physiology	4
HCT 133	Anatomy & Physiology Lab	2
HCT 135	CPR	0
Total Hours		6

Code	Title	Hours
Required Courses		
SUR 105	Introduction to Surgical Tech	4
SUR 110	Microbiology	2
SUR 125	Surgical Medical Terminology	3
SUR 135	Principles & Practices of ST	5
SUR 145	Principles & Practices ST Lab	3
SUR 155	Surgical Procedures I	4
SUR 175	Clinical I	3
SUR 250	Surgical Pharmacology	2
SUR 245	Surgical Procedures II	5
SUR 265	Surgical Procedures III	5

SUR 270	Clinical II	4
SUR 285	Clinical III	6
SUR 295	ST Certification Review	1
Total Hours		47

SUR 105 Introduction to Surgical Tech (4)

The course introduces the student to professional responsibilities, duties, and general functions of the operating room. It also introduces the student to the rest of the operating room team and their functions, responsibilities for safety of the patient and themselves, organization of the hospital and the operating room, legal and ethical issues, and the importance of communication in the operating room, credentialing, and professionalism. The use of electricity and lasers in the operating room are also covered as are the pre-op routines of the circulator prior to the patient entering the operating room.

SUR 110 Microbiology (2)

The course introduces the student to basic micro-organisms and how they relate to the operating room and sterile technique.

SUR 120 Medical Terminology (3)

The course introduces the student to the language of the medical field. Medical prefixes, suffixes, and combining forms are introduced to the student so they may have a thorough knowledge and understanding of what they are reading and writing in the medical field. An emphasis is placed on terms, pathological conditions, and diagnostic terms that relate to surgery.

SUR 125 Surgical Medical Terminology (3)

The course introduces the student to the language of the medical field. Medical prefixes, suffixes, and combining forms are introduced to the student so they may have a thorough knowledge and understanding of what they are reading and writing in the medical field. An emphasis is placed on terms, pathological conditions, and diagnostic terms that relate to surgery.

SUR 135 Principles & Practices of ST (5)

The course introduces the student to basic care practices of the operating room and will include aseptic technique and surgical case management. It covers a multitude of duties and concepts of both the scrub and circulating roles of the operating room. This also includes scrubbing, gowning, and gloving; preparing and maintaining the sterile field for surgery; methods of sterilization; all operating room (OR) equipment and its use, sponge, sharp, and instrument counts; specialty instruments and their care; surgical dressings; catheters, tubes and drains; pre-op, intra-op, and post-op duties of the surgical tech and circulating nurse like positioning prepping and draping and more.

SUR 145 Principles & Practices ST Lab (3)

The course allows the student to apply the knowledge that he/she learned in SUR140 (Principles and Practices). Repeated practice is designed to get the student ready for the clinical area to assure proper patient care. The student must pass the lab in order to continue in the program.

SUR 155 Surgical Procedures I (4)

The course instructs the student in the basic general, gynecological, and genitourinary surgical procedures. Besides the procedure itself the student will learn the instrumentation needed, pathology, sutures used, and special considerations.

SUR 165 Surg Procedures I (3)

The course instructs the student in the basic general, gynecological, and genitourinary surgical procedures. Besides the procedure itself the student will learn the instrumentation needed, pathology, sutures used, and special considerations.

SUR 175 Clinical I (3)

The student will start to apply the basic skills they have learned for the operating room in the actual operating room of a clinical facility. They will also pick up experience in the instrument room and pre-operative area of the hospital. Clinical proficiency at our facilities prepares the student with a minimum of 120 cases, 80 of which are in the first scrub role and comprise a variety of surgical scrub experiences.

SUR 245 Surgical Procedures II (5)

This course will expand ENT, maxillofacial, orthopedic, vascular, plastic surgery, and neuro surgical procedures. Besides the procedure itself, included in this course is pathology involved, surgical instruments needed, positioning of the patient, and special considerations for each surgical procedure.

SUR 250 Surgical Pharmacology (2)

This course begins with weights and measurements using the metric system and its application in the medical field. A review of basic math skills and figuring ratios is included. Medications used in the operating room during surgery both for the surgeon and the anesthesia provider will be discussed. Pre-operative and post-operative medications for anxiety, pain, emergencies, and other operating room (OR) related health issues will be discussed. Anesthetic agents used including IV, inhalation, regional, and local will be presented to the student.

SUR 265 Surgical Procedures III (5)

The course will introduce students to vascular, thoracic, plastic, ophthalmic, pediatric surgical procedures and trauma surgery. Included in this is pathology involved, surgical instruments needed, positioning the patient, and special considerations for each surgical procedure. Students will also learn basic physics and robotics as applied to the operating room.

SUR 270 Clinical II (4)

In the surgical suite students will apply knowledge and skills learned in Surgical Procedures II and Principles and Practices Lab to the operating room on all surgical procedures. This course is designed to increase the student's self-confidence as a surgical tech and allow them to become more aware of their sterile technique and preparedness for each surgical procedure. Anticipation of the surgeon is critical. Clinical proficiency at our facilities prepares the student with the required 120 surgical cases, 80 of those in the 'first scrub' role.

SUR 285 Clinical III (6)

In the surgical suite students will apply knowledge and skills learned in Surgical Procedures and Principles and Practices to the operating room on more advanced procedures. This course is designed to increase the student's self-confidence and have them know instruments needed and general preparedness for each surgical procedure. Anticipatory skills are enhanced. Clinical proficiency at our facilities prepares the student with the required 120 surgical cases, 80 of these will be in the 'first scrub' role.

SUR 290 Clinical III (4)

Comprehensive review of surgical technology concepts and practical preparation for the national certification examination including but not limited to: Preoperative preparation of the surgical patient, Intra-operative procedures, Post-operative procedures, Administrative and personnel, Equipment sterilization and maintenance, Anatomy and physiology, Microbiology, and Surgical pharmacology.

SUR 295 ST Certification Review (1)

Comprehensive review of surgical technology concepts and practical preparation for the national certification examination including but not limited to: a. Preoperative preparation of the surgical patient; b. Intra-operative procedures; c. Post-operative procedures; d. Administrative and personnel; e. Equipment sterilization and maintenance; f. Anatomy and physiology; g. Microbiology; and h. Surgical pharmacology.