

SURGICAL TECHNOLOGY (SUR)

SUR-108 Introduction to Surgical Technology (2)

Provides an introduction to the profession of surgical technology. Explores the history and professional associations while emphasizing the roles and responsibilities of the surgical technologist and surgical team members. Introduces the biopsychosocial needs of the surgical patient and respecting diverse populations. Ethical, moral and legal issues are explored. Provides information about employability skills, regulatory agencies, healthcare facilities, as well as departmental organization and management within the facilities. Introduces the operating room environment. Arts & Sciences Elective Code: B
Hours per week: 2.0 lecture

SUR-126 Surgical Technology I (4.5)

Provides an orientation to the surgical technology profession and operating room theories. Introduces surgical technology, standards of conduct, laws and ethics, hospital administration, teamwork, physical environment, safety standards, principles of asepsis, microbiology, cleaning, disinfection, sterilization, emergencies, instrumentation, wound healing, sutures and perioperative management duties. Arts & Sciences Elective Code: B
Hours per week: 4.5 lecture

SUR-128 Surgical Technology I Lab (2)

Applies principles learned in Surgical Technology I in a hands-on laboratory setting. Focuses on basic competencies surgical technologists need to proficiently perform in the operating room setting. Demonstrates basic concepts of aseptic technique, scrubbing, gowning, gloving, transporting, transferring and positioning the surgical patient, surgical preparation and draping. Studies creating and maintaining a sterile field, providing optimal patient care in the surgical setting and basic instrumentation. Arts & Sciences Elective Code: B
Hours per week: 4.0 lab

SUR-182 Microbiology for Surgical Technologists (1)

Includes the structures and function of microorganisms, characteristics of pathogenic and nonpathogenic bacteria, infection processes, specifics of the immune response, and principles and applications of asepsis for the Surgical Technologist. Arts & Sciences Elective Code: B
Hours per week: 1.0 lecture

Pre/corequisite: Take SUR-126. Take SUR-128.

SUR-230 Fundamentals of Surgical Technology (4)

Provides an in-depth exploration of the perioperative duties of the surgical technologist including principles of setting up and maintaining a sterile field. Principles of patient identification, transportation, positioning, skin preparation, draping techniques, time-outs, disinfection of the OR, and second circulator duties are examined. Arts & Sciences Elective Code: B
Hours per week: 4.0 lecture

Prerequisite: Minimum B in HSC-115. Minimum B in BIO-161 or both BIO-168 and BIO-173.

Corequisite: Take SUR-232. Take SUR-342.

Pre/corequisite: Take SUR-108.

SUR-232 Fundamentals of Surgical Technology Lab (3)

Provides the opportunity to apply concepts and demonstrate skills related to the principles and techniques regarding preoperative case management for the surgical technologist in the scrub, second scrub and second circulating roles. Emphasizes basic concepts of aseptic technique, scrubbing, gowning, gloving, transporting, transferring, positioning, skin preparation and draping. Focuses on creating and maintaining a sterile field in order to provide optimal patient care in the surgical setting. Arts & Sciences Elective Code: B
Hours per week: 6.0 lab

Prerequisite: Minimum B in HSC-115. Minimum B in BIO-161 or both BIO-168 and BIO-173.

Corequisite: Take SUR-230. Take SUR-342.

Pre/corequisite: Take SUR-108.

SUR-235 Sciences of Surgical Technology (3)

Focuses on the principles of asepsis, microbiology, disinfection and sterile processing. Principles of hemostasis, wound healing and sutures are explored. Biomedical sciences, anesthesia, pharmacology and all-hazards preparation are introduced. Arts & Sciences Elective Code: B
Hours per week: 3.0 lecture

Prerequisite: Minimum B in HSC-115. Minimum B in BIO-161 or both BIO-168 and BIO-173.

Corequisite: Take SUR-230. Take SUR-232. Take SUR-342.

Pre/corequisite: Take SUR-108.

SUR-322 Surgical Technology II (3)

Builds on knowledge of basic surgical techniques. Studies the role of the surgical technologist in basic surgical procedures. Presents surgical applications in diagnostic, general and OB/GYN procedures, with emphasis on anatomy, physiology, pathophysiology, instrumentation, equipment, procedural steps and patient safety. Arts & Sciences Elective Code: B
Hours per week: 3.0 lecture

Prerequisite: Take SUR-126. Take SUR-128.

SUR-323 Surgical Technology II Lab (1)

Applies principles learned in Surgical Technology II in a hands-on laboratory setting. Focuses on simulating the three phases of case management and applying them to each surgical specialty. Arts & Sciences Elective Code: B
Hours per week: 2.0 lab

Prerequisite: Take SUR-126. Take SUR-128.

SUR-335 Surgical Specialties Lab (3)

Provides the opportunity to practice preoperative and intraoperative surgical case management in general, OB/GYN, minimally invasive/ laparoscopic, genitourinary and plastic, oral, maxillofacial, ophthalmic, ENT, neurosurgery, cardiovascular, and orthopedic surgical procedures. Focuses on maintaining sterile technique and setting up instrumentation and supplies for surgical procedures. Arts & Sciences Elective Code: B
Hours per week: 6.0 lab

Prerequisite: Minimum B in SUR-230. Minimum B in SUR-232. Minimum B in SUR-342.

Corequisite: Take SUR-343.

SUR-340 Surgical Specialties I (1)

Builds on the knowledge of basic surgical techniques. Develops the role of the surgical technologist in basic surgical procedures. Presents oral, maxillofacial, plastic, reconstructive, and ophthalmic surgical applications, emphasizing anatomy, physiology, pathophysiology, instrumentation, equipment, procedural steps and patient safety. Arts & Sciences Elective Code: B
Hours per week: 1.0 lecture

Prerequisite: Take SUR-126. Take SUR-128.

SUR-341 Surgical Specialties II (3)

Completes the basic surgical procedures learning with applications in orthopedics, ENT, urology, neurosurgery, cardiovascular and peripheral vascular. Emphasizes anatomy, physiology, pathophysiology, instrumentation, equipment, procedural steps and patient safety. Arts & Sciences Elective Code: B
Hours per week: 3.0 lecture

Prerequisite: Take SUR-126. Take SUR-128.

Corequisite: Take SUR-520.

SUR-342 Surgical Specialties I (6)

Emphasizes the perioperative role of the surgical technologist in general, OB/GYN, and genitourinary surgical procedures with an emphasis on anatomy, physiology, pathophysiology, pharmacology, diagnostic interventions, instrumentation, equipment, procedural steps and patient safety. Arts & Sciences Elective Code: B
Hours per week: 6.0 lecture

Prerequisite: Minimum B in HSC-115. Minimum B in BIO-161 or both BIO-168 and BIO-173.

Corequisite: Take SUR-230. Take SUR-232.

Pre/corequisite: Take SUR-108.

SUR-343 Surgical Specialties II (6)

Builds on the basic knowledge of surgical specialties. Emphasizes the role of the surgical technologist in ophthalmic, oral and maxillofacial, plastic and reconstructive, and ENT surgical procedures with emphasis on anatomy, physiology, pathophysiology, pharmacology, diagnostic interventions, instrumentation, equipment, procedural steps and patient safety. Arts & Sciences Elective Code: B
Hours per week: 6.0 lecture

Prerequisite: Minimum B in SUR-230. Minimum B in SUR-232. Minimum B in SUR-342.

Corequisite: Take SUR-335.

SUR-344 Surgical Specialties III (6)

Builds on the basic knowledge of surgical specialties. Emphasizes the role of the surgical technologist in orthopedic, neurosurgery, cardiothoracic, peripheral vascular and robotic surgical procedures with emphasis on anatomy, physiology, pathophysiology, pharmacology, diagnostic interventions, instrumentation, equipment, procedural steps and patient safety. Arts & Sciences Elective Code: B
Hours per week: 6.0 lecture

Pre/corequisite: Take SUR-343. Take SUR-335. Take SUR-500.

SUR-420 Pharmacology for the Surgical Technologist (2)

Enhances fundamental math skills and provides a summary of basic pharmacology, terminology, drug regulation and drug administration. Examines drugs frequently used in the surgical setting, along with an overview of anesthesia administration and general practice. Arts & Sciences Elective Code: B
Hours per week: 2.0 lecture

Prerequisite: Take SUR-126. Take SUR-128.

Corequisite: Take SUR-322. Take SUR-323.

SUR-440 Biomedical Sciences for Surgical Technology (2)

Provides a broad base of knowledge for entry-level surgical technologists. Focuses on computers, electricity, lasers, robotics and other fundamental technologies essential to the profession. Arts & Sciences Elective Code: B
Hours per week: 2.0 lecture

Prerequisite: Take SUR-126. Take SUR-128.

Corequisite: Take SUR-322. Take SUR-323.

SUR-500 Surgical Technology Clinic I (3)

Provides exposure to community-based practice in order to develop competence as an entry-level surgical technologist. Includes being assigned to a surgical site to practice all skills related to the surgical technologist within the perioperative setting under the supervision of a facility-designated preceptor. Emphasis will be placed on the surgical technologist in the scrub role. Arts & Sciences Elective Code: B
Hours per week: 9.0 clinical

Pre/corequisite: Take SUR-343. Take SUR-335. Take SUR-344.

SUR-501 Surgical Technology Clinic II (7)

Builds on prior clinic experience and continues the practice of the surgical scrub role under the supervision of a facility-designated preceptor. Includes demonstrating progression towards autonomous performance of surgical technology functions, as well as increased competency in more complex surgical cases. Requires the submitting of documentation to fulfill accreditation standards, including records of participation in a specified number of cases across various specialties, in addition to sitting for the national certification examination. Arts & Sciences Elective Code: B; Comments: Students must participate in the national certification exam as part of the course completion requirement.

Hours per week: 1.0 lecture, 18.0 clinical

Pre/corequisite: Take SUR-344. Take SUR-343. Take SUR-335. Take SUR-500.

SUR-520 Surgical Technology Practicum I (2)

Provides hands-on, first-level clinical experience in the operating room.

Arts & Sciences Elective Code: B

Hours per week: 6.0 clinical

Prerequisite: Take SUR-126. Take SUR-128.

Corequisite: Take SUR-341.

SUR-523 Surgical Technology Practicum II (9)

Provides an extensive hands-on clinical experience in all entry-level skills for Surgical Technologists. Arts & Sciences Elective Code: B

Hours per week: 27.0 clinical

Pre/corequisite: Take SUR-520. Take SUR-341.

SUR-924 Honors Project (1)

Allows a qualified honors student to pursue a special concentration of study under the guidance of a faculty member. Requires completion of an honors project contract. May be taken more than once. Arts & Sciences Elective Code: B; Comments: Requires approval of supervising professor and dean

Hours per week: 1.0 lecture