

SURG - Surgical Technology

SURG 1010 - Introduction to Surgical Technology
6.000 Credits

Provides an overview of the surgical technology profession and develops the fundamental concepts and principles necessary to successfully participate on a surgical team. Topics include orientation to surgical technology; biomedical principles; asepsis and the surgical environment; basic instrumentation and equipment; principles of the sterilization process; application of sterilization principles; and minimally invasive surgery.

SURG 1020 - Principles of Surgical Technology
5.000 Credits

Provides continued study of surgical team participation by wound management and technological sciences for the operating room. Topics include biophysical diversities and needs; pre-operative routine; intra-operative routine; wound management; post-operative patient care; and outpatient surgical procedures.

SURG 1080 - Surgical Microbiology
2.000 Credits

Introduces the fundamentals of surgical microbiology. Topics include historical development of microbiology; microscopes; cell structure and theory; microbial function and classification; human and pathogen relationships, infectious processes and terminology; defense mechanisms; infection control and principles of microbial control and destruction.

SURG 1100 - Surgical Pharmacology
2.000 Credits

Introduces the fundamentals of intraoperative pharmacology, and emphasizes concepts of anesthesia administration. Topics include weights and measurements, drug conversions, interpretation of drug orders, legal aspects of drug administration, intraoperative pharmacologic agents, and anesthesia fundamentals.

SURG 1120 - Surgical Technology Clinical I
3.000 Credits

Orients students to the clinical environment and provides experience with basic skills necessary to the surgical technologist. Topics include scrubbing, gowning, gloving, and draping; assistance with patient care; processing of instruments and supplies; maintenance of a sterile field; and environmental sanitation. In addition, introduces the development of surgical team participation through clinical experience. Emphasis is placed on observation/participation in routine procedures and procedures for core and specialty surgery. Topics include general surgery, gastrointestinal surgery, obstetrical and gynecological surgery, genitourinary surgery, otorhinolaryngologic surgery, plastic and reconstructive surgery, orthopedic surgery, ophthalmic surgery, oral and maxillofacial surgery, cardiothoracic surgery, peripheral vascular surgery, and neurosurgical procedures.

SURG 1130 - Surgical Technology Clinical II
3.000 Credits

Continues to orient students to the clinical environment and provides experience with basic skills necessary to the surgical technologist. Topics include scrubbing, gowning, gloving, and draping; assistance with patient care; processing of instruments and supplies; maintenance of a sterile field; and environmental sanitation. In addition, introduces the development of surgical team participation through clinical experience. Emphasis is placed on observation/participation in routine procedures and procedures for core and specialty surgery. Topics include general surgery, gastrointestinal surgery, obstetrical and gynecological surgery, genitourinary surgery, otorhinolaryngologic surgery, plastic and reconstructive surgery, orthopedic surgery, ophthalmic surgery, oral and maxillofacial surgery, cardiothoracic surgery, peripheral vascular surgery, and neurosurgical procedures.

SURG 2030 - Surgical Procedures I
4.000 Credits

Prerequisites: SURG 1010; SURG 1020

Introduces the core general procedures, including the following: incisions; wound closure; operative pathology; and common complications as applied to general and specialty surgery. Topics include introduction to surgical procedures; general surgery and special techniques; obstetrical and gynecological surgery; gastrointestinal surgery; genitourinary surgery; and otorhinolaryngologic surgery.

SURG 2040 - Surgical Procedures II
4.000 Credits

Prerequisites: SURG 2030

Continues development of student knowledge and skills applicable to specialty surgery areas. Topics include ophthalmic surgery; thoracic surgery; vascular surgery; cardiovascular surgery; neurosurgery; and plastic and reconstructive surgery.

SURG 2120 - Surgical Technology Clinical III
3.000 Credits

Prerequisites: SURG 1130

Orients students to the clinical environment and provides experience with basic skills necessary to the surgical technologist. Topics include scrubbing, gowning, gloving, and draping; assistance with patient care; processing of instruments and supplies; maintenance of a sterile field; and environmental sanitation. In addition, introduces the development of surgical team participation through clinical experience. Emphasis is placed on observation/participation in routine procedures and procedures for core and specialty surgery. Topics include general surgery, gastrointestinal surgery, obstetrical and gynecological surgery, genitourinary surgery, otorhinolaryngologic surgery, plastic and reconstructive surgery, orthopedic surgery, ophthalmic surgery, oral and maxillofacial surgery, cardiothoracic surgery, peripheral vascular surgery, and neurosurgical procedures.

SURG 2130 - Surgical Technology Clinical IV
3.000 Credits

Prerequisites: SURG 1130

Orients students to the clinical environment and provides experience with basic skills necessary to the surgical technologist. Topics include scrubbing, gowning, gloving, and draping; assistance with patient care; processing of instruments and supplies; maintenance of a sterile field; and environmental sanitation. In addition, introduces the development of surgical team participation through clinical experience. Emphasis is placed on observation/participation in routine procedures and procedures for core and specialty surgery. Topics include general surgery, gastrointestinal surgery, obstetrical and gynecological surgery, genitourinary surgery, otorhinolaryngologic surgery, plastic and reconstructive surgery, orthopedic surgery, ophthalmic surgery, oral and maxillofacial surgery, cardiothoracic surgery, peripheral vascular surgery, and neurosurgical procedures.

SURG 2140 - Surgical Technology Clinical V
3.000 Credits

Prerequisites: SURG 2130

Orients students to the clinical environment and provides experience with basic skills necessary to the surgical technologist. Topics include scrubbing, gowning, gloving, and draping; assistance with patient care; processing of instruments and supplies; maintenance of a sterile field; and environmental sanitation. In addition, introduces the development of surgical team participation through clinical experience. Emphasis is placed on observation/participation in routine procedures and procedures for core and specialty surgery. Topics include general surgery, gastrointestinal surgery, obstetrical and gynecological surgery, genitourinary surgery, otorhinolaryngologic surgery, plastic and reconstructive surgery, orthopedic surgery, ophthalmic surgery,

oral and maxillofacial surgery, cardiothoracic surgery, peripheral vascular surgery, and neurosurgical procedures

SURG 2150 - Surgical Technology Clinical VI
3.000 Credits

Prerequisites: SURG 2130

Orients students to the clinical environment and provides experience with basic skills necessary to the surgical technologist. Topics include scrubbing, gowning, gloving, and draping; assistance with patient care; processing of instruments and supplies; maintenance of a sterile field; and environmental sanitation. In addition, introduces the development of surgical team participation through clinical experience. Emphasis is placed on observation/participation in routine procedures and procedures for core and specialty surgery. Topics include general surgery, gastrointestinal surgery, obstetrical and gynecological surgery, genitourinary surgery, otorhinolaryngologic surgery, plastic and reconstructive surgery, orthopedic surgery, ophthalmic surgery, oral and maxillofacial surgery, cardiothoracic surgery, peripheral vascular surgery, and neurosurgical procedures.

SURG 2240 - Seminar in Surgical Technology
2.000 Credits

Prepares students for entry into careers as surgical technologists and enables them to effectively prepare for the national certification examination. Topics include professional credentialing, certification review, and test-taking skills.