

SURGICAL TECHNOLOGY (SRG)

SRG 101 - Intro to Surgical Technology

Credit Hours: 3, Contact Hours: 3

Division: Health Occupations

In this course, students will learn the primary functions of the surgical technologist in multiple roles within the operating room environment.

Points of focus will include effective communication, professional interactions with the patient and surgical team, proper personal protective equipment, introduction to asepsis, safety precautions, instrumentation, equipment, supplies, stapling devices, suture, and infection control and wound healing. Group 2 course.

Required Prerequisite(s): BIO 227, BIO 227L, HAH 101, HPD 110 or equivalent; SRG 102 and SRG 103 may be taken concurrently

Recommended Prerequisite(s): BIO 228

Corequisites: SRG 101L

SRG 101L - Intro to Surg Tech Lab

Credit Hours: 2, Contact Hours: 4

Division: Health Occupations

In this course students will learn and practice in the laboratory environment the skills required to perform in the surgical setting.

Emphasis will be placed on introductory skills, instrumentation, equipment and procedures relevant to general, gynecological, and genitourinary procedures. Students will be evaluated on their sterile and aseptic technique as well as case management skills. Group 2 course.

Corequisites: SRG 101

SRG 102 - Surgical Microbiology

Credit Hours: 1.5, Contact Hours: 1.5

Division: Health Occupations

Students in this course will learn about the cell, cell organelles and processes, and transport. This course will also cover varying types of organisms that cause infection, the infection process, and microbe identification. The body's natural defense system, as well as common bacteria, viruses, and fungi that cause disease, will be covered including the response. Current and emerging global diseases that have the potential to reach or at current epidemic, endemic, or pandemic levels will be discussed including COVID-19. Group 2 course. Critical Thinking - Direct.

Required Prerequisite(s): SRG 101, SRG 101L, and SRG 103 may be taken concurrently

SRG 103 - Surgical Pharmacology

Credit Hours: 1.5, Contact Hours: 1.5

Division: Health Occupations

In this course students will learn the pharmaceuticals used in surgical practice to include their actions, use, effects, contraindications and administration. The anesthesia process will be covered in defining the stages of general anesthesia as well as the different types of agents used. The course will cover the equipment, safe practices, sterile technique and terminology used in relation to pharmacology. Students will also cover practices relating to alternative therapies such as herbal medication, acupuncture, massage, and music therapy and their effect on the surgical patient. Group 2 course. Critical Thinking - Direct.

Required Prerequisite(s): SRG 101, SRG 101L, and SRG 102 may be taken concurrently

SRG 121 - Surgical Procedures I

Credit Hours: 4, Contact Hours: 4

Division: Health Occupations

Students in this course will study the relevant surgical anatomy and physiology, pathophysiology, supplies, equipment, and instrumentation needed for a variety of procedures in the areas of general, obstetrics and gynecological, genitourinary, and orthopedic surgery. Group 2 course.

Required Prerequisite(s): SRG 101, SRG 101L, SRG 102, SRG 103; SRG 122 and SRG 123 may be taken concurrently

Corequisites: SRG 121L

SRG 121L - Surgical Procedures I Lab

Credit Hours: 3.5, Contact Hours: 7

Division: Health Occupations

Students in this course will learn and practice in the laboratory environment the skills required to perform in the surgical setting.

Emphasis will be placed on advanced skills concerning instrumentation, equipment and procedures relevant to orthopedic, ENT, plastic, reconstructive, minimally invasive, and vascular procedures. Students will also practice patient transport, transfer, urinary catheterization, skin prep, patient positioning and draping procedures. Students will be evaluated on their sterile technique and case management skills. This course will also include a clinical observation component of the relevant areas of the perioperative environment. Group 2 course.

Corequisites: SRG 121

SRG 122 - The Surgical Patient

Credit Hours: 0.5, Contact Hours: 0.5

Division: Health Occupations

In this course students will define patient-centered care to determine the differing needs of the various patient populations that visit the surgical department. Important areas that will be described include appropriate communication, cultural and spiritual competence, and grief advocacy.

This course will cover the aspects of the death in the operating room along with the organ transplant process. Students will also cover patient transport, transfer, urinary catheterization, skin prep, patient positioning and draping procedures. Group 2 course. Critical Thinking - Direct.

Required Prerequisite(s): SRG 121, SRG 121L, SRG 123-may be taken concurrently

SRG 123 - Biomed Sciences and MIS

Credit Hours: 1.5, Contact Hours: 1.5

Division: Health Occupations

Students in this course are introduced to the basic concepts of physics to include the elements of motion, energy, light, sound and electricity and how they apply to surgical practice. Further study will include aspects of minimally invasive surgery including laparoscopy and robotic surgery. Students will also be introduced to the cases performed in interventional radiology and how they are integrated within surgical practice. The course will conclude with the study of diagnostic interventions integral in surgical practice as well as diagnosing pathologies preoperatively. Group 2 course.

Required Prerequisite(s): SRG 121, SRG 121L, SRG 122 may be taken concurrently

SRG 201 - Surgical Procedures II

Credit Hours: 3, Contact Hours: 3

Division: Health Occupations

Students will study the relevant surgical anatomy and physiology, pathophysiology, supplies, equipment, and instrumentation needed for a variety of procedures. Surgical procedures covered will include the areas of otorhinolaryngology, Oral & Maxillofacial, ophthalmic, plastic & reconstructive, trauma surgery, and All-Hazard preparation. Group 2 course.

Required Prerequisite(s): SRG 121, SRG 121L SRG 122, SRG 123; SRG 202 and SRG 204 may be taken concurrently

SRG 202 - Surg Procedures II Clinical

Credit Hours: 5, Contact Hours: 15

Division: Health Occupations

In this course students will be in the clinical environment practicing to and performing essential skills required in the perioperative environment. While under the supervision of a surgical technologist or RN the student will observe, scrub, and assist on procedures as directed by the surgical team. Group 2 course. Critical Thinking - Direct.

Required Prerequisite(s): SRG 201 and SRG 204 may be taken concurrently

SRG 204 - Professional Career Prep I

Credit Hours: 0.5, Contact Hours: 0.5

Division: Health Occupations

In this course students will complete a career portfolio and employment training. Major topics in this course include resume creation, both written and online portfolios, interview preparation, job search strategies, and professional attire. Group 2 course. Communications - Direct.

Required Prerequisite(s): SRG 201 and SRG 202 may be taken concurrently

SRG 221 - Surgical Procedures III

Credit Hours: 3, Contact Hours: 3

Division: Health Occupations

Students in this course will study the relevant surgical anatomy and physiology, factors unique to surgical procedures, pathophysiology, supplies, equipment, and instrumentation needed for a variety of procedures. Surgical procedures covered include the disciplines of neurology, vascular, cardiothoracic, and pediatric surgical procedure categories. Group 2 course.

Required Prerequisite(s): SRG 201, SRG 202, SRG 204; SRG 222 and SRG 224 may be taken concurrently.

SRG 222 - Surg Procedures III Clinical

Credit Hours: 6, Contact Hours: 18

Division: Health Occupations

In this course students will continue working in the surgical environment under the direction of a surgical technologist or RN. The student will observe, scrub, and assist on more complex surgical cases as directed by the surgical team. The progression from student to entry level surgical technologist is the goal for the completion of this course along with the successful completion of the 120 scrubbed case requirements. Group 2 course. Critical Thinking - Direct.

Required Prerequisite(s): SRG 221 and SRG 224 may be taken concurrently

SRG 224 - Professional Career Prep II

Credit Hours: 1, Contact Hours: 1

Division: Health Occupations

In this course, the students will focus on exam preparation for the certification exam given by the National Board of Surgical Technology and Surgical Assisting (NBSTSA) that will be taken electronically on campus the last week of the program. Testing strategies and studying techniques will be a large focus point as well as online practice exams. Group 2 course.

Required Prerequisite(s): SRG 221 and SRG 222 may be taken concurrently