



SURGICAL TECHNOLOGY PROGRAM

Course Descriptions

Course Title: Anatomy & Physiology I

Course Term: Term I

Clock Hours: 40 hrs

Course Description: This is the first of a two part course that introduces the student to basic anatomy and physiology. In preparation for the surgical procedure it is necessary for the surgical technician to have knowledge of anatomy and physiology. The course includes information regarding the basic structures of the human body with cells, tissues, and organs. This will progress to the systems of the body.

Course Title: Medical Terminology

Course Term: Term I

Clock Hours: 15hrs

Course Description: This course provides an introduction to basic and advanced terms used in medicine and in surgery.

Course Title: Fundamentals

Course Term: Term I

Clock Hours: 60hrs

Course Description: This is an introduction to the surgical environment and how individual roles impact the functioning of the surgical suite. The student will discuss safety issues and basic responsibilities of the surgical technologist.

Course Title: Patient Care Concepts

Course Term: Term I

Clock Hours: 40hrs

Course Description: This course provides the student with an introduction to assisting the nursing staff with quality and safe patient care. This course will incorporate knowledge of policies and procedures, legal requirements, and physical and emotional needs in providing patient care to an individual during a surgical procedure.

Course Title: Asepsis and the Surgical Environment

Course Term: Term I

Clock Hours: 50hrs

Course Description: In this course, the student will be introduced to the basics of microbiology. This will include the structure and function of the microbial cell, pathogenic organisms, the infection process and the immune response, and the process of wound healing. This will provide the concepts and practice of disinfection, sterilization, universal precautions, and aseptic technique.

Course Title: Pharmacology

Course Term: Term II

Clock Hours: 30hrs

Course Description: This course focuses on the study of drugs used in the surgical environment. Students will be provided an introduction to pharmacology, principles of anesthesia, the calculation and measurement of doses, and the correct handling of drugs for safety during the surgical procedure.

Course Title: Anatomy & Physiology II

Course Term: Term II

Clock Hours: 40hrs

Course Description: This is the second part of a two part course that introduces the student to basic anatomy and physiology. In preparation for the surgical procedure it is necessary for the surgical technician to have knowledge of anatomy and physiology. The course includes information regarding the basic structures of the human body with cells, tissues, and organs. This will progress to the systems of the body.

Course Title: Surgical Procedures I

Course Term: Term II

Clock Hours: 60hrs

Course Description: This course introduces the student to the preparation for the surgical procedure. The course will involve instrumentation, equipment, policies, and procedures.

Course Title: Professional Development

Course Term: Term III

Clock Hours: 15hrs

Course Description: This course will assist the student in understanding a professional role in healthcare. Included in this course will be information related to employment opportunities, handling difficult situations, and preparation for joining the workforce as a surgical technologist.

Course Title: Pathophysiology I

Course Term: Term III

Clock Hours: 20hrs

Course Description: This is the first course that introduces the student to the scientific study of the nature of disease and its causes, processes, development, and consequences.

Course Title: Surgical Procedures II

Course Term: Term III

Clock Hours: 25hrs

Course Description:

This course introduces the student to the preparation for the intermediate surgical procedures. The course will involve instrumentation, equipment, policies, and procedures.

Course Title: Issues in Clinical Practice

Course Term: Term IV

Clock Hours: 15hrs

Course Description: This course is designed to assist the student in understanding legal, social and ethical implications of health care issues in surgery. The student will gain an understanding of how the economy, culture, technology, sociological, and psychological processes affect the surgical department and experience.

Course Title: Pathophysiology II

Course Term: Term IV

Clock Hours: 20hrs

Course Description: This the second part of the course that introduced the student to the scientific study of the nature of disease and its causes, processes, development, and consequences.

Course Title: Surgical Procedures III

Course Term: Term IV

Clock Hours: 25hrs

Course Description: This course introduces the student to the preparation for the advanced surgical procedures. The course will involve instrumentation, equipment, policies, and procedures and include such cases as trauma, robotics, and open heart.

Clinical Labs

Course Term: Terms I, II, III, IV

Clock Hours: 695

Course Description: During the classroom experience the student will have the opportunity to practice skills and competencies. In the clinical experience, the student will participate with the surgical team to prepare and function in a surgical technology role. Following hospital policies, procedures and protocols, the student will utilize sterile technique and knowledge of patient care concepts to assist staff in delivering quality patient care. The student will meet the recommended case requirement from ARC/STSA Core Curriculum, 5th edition. The minimum clinical case requirements are 80 cases with 25 cases in the independent first scrub role. Cases are classified according to Core and Specialty areas. Assisted cases should include 10 cases in Level I Core and 5 cases in Level I Specialty. All remaining assisted cases will be distributed across core and specialty areas.

Total Clock Hours: 1150