

## SUR Surgical Technology

### **SUR 100 Orientation to the Profession (1-0) 1 cr.**

Introduces the student to the role of the surgical technologist and the professional practice of surgical technology. Emphasizes professionalism, organizations, credentialing and employability skills such as effective communication and teamwork. Students will investigate ethical, moral and legal issues, and hazard preparations, risk management and organizational relationships within the healthcare facility.

### **SUR 101 Surgical Pharmacology (2-0) 2 crs.**

Introduces basic concepts and skills in pharmacology and anesthesia related to surgical technology. Emphasis is given to classification, indications, interactions and adverse reactions of commonly used medications. Terminology, abbreviations, dosage calculation, and weights and measures associated with medication administration are presented. Students are also exposed to the principles of anesthesia administration and the biopsychosocial needs of the patient.

### **SUR 102 Fundamentals of Surgical Technology (4-0) 4 crs.**

Presents fundamental principles and skills necessary for use of aseptic technique in surgical technology. Emphasizes the role of the surgical technologist including scrubbing and circulating duties, safety, ethical and legal considerations. Instrumentation for surgical procedures, equipment sterilization and maintenance are included in the course as well as pre-operative, intra-operative and post-operative preparations, and activities of the surgical technologist.

**Prerequisite:** BIO 161, SUR 100 and SUR 101 with grades of C or better.

**Corequisite:** SUR 103

### **SUR 103 Fundamentals/Surgical Technology Lab (0-4) 2 crs.**

Applies knowledge gained in didactic coursework within SUR 102 (Fundamentals of Surgical Technology.) Students will apply theoretical knowledge in the performance of tasks performed by surgical technologists in perioperative care. Emphasizes equipment sterilization, maintenance, pre-operative preparations and the activities of the surgical technologist.

**Prerequisite:** SUR 100 and SUR 101 with grades of C or better.

**Corequisite:** SUR 102

### **SUR 104 Surgical Procedures I (4-0) 4 crs.**

Introduces relevant anatomy and physiology, factors unique to surgical procedures, supplies, equipment and instrumentation needed for various surgical procedures. Content covers general, obstetric, gynecological and genitourinary surgical procedures. Focuses on perioperative care including diagnostic testing, pre-operative and immediate post-operative care.

**Prerequisite:** SUR 100 and SUR 101 with grades of C or better.

### **SUR 105 Clinical Applications I (0-6) 2 crs.**

Applies the principles and practice of basic surgical procedures during clinical rotations in affiliated hospitals. Introduces the students to the scrub role in the operating room as Observation role, Second Scrub, and First Scrub. Beginner level study includes the application of basic skills learned in the laboratory setting with an emphasis on General, Obstetric, Gynecological and Genitourinary surgical procedures. Focuses on knowledge, skills and professionalism necessary for perioperative case management.

**Prerequisite:** SUR 100 and SUR 101 with grades of C or better.

### **SUR 110 Fundamentals of Sterile Processing (3-0) 3 crs.**

Introduces the primary responsibilities of a sterile processing technician. Emphasizes preparation, distribution and storage of instruments, supplies and equipment; quality assurance; and inventory management. Teaches students how to minimize contagions and maintain healthy hospitals, while enforcing decontamination standards in a variety of clinical settings.

**Corequisite:** SUR 111

### **SUR 111 Fundamentals/Sterile Processing Lab (0-2) 1 cr.**

Provides supervised lab training applying the primary responsibilities of a sterile processing technician. Emphasizes preparation, distribution and storage of instruments, supplies and equipment; quality assurance; and inventory management. Teaches students how to minimize contagions and maintain healthy hospitals, while enforcing decontamination standards in a variety of clinical settings.

**Corequisite:** SUR 110

### **SUR 201 Surgical Procedures II (6-0) 6 crs.**

Examines advanced surgical procedures in relation to the physiological aspects of surgical intervention including ophthalmic; ear, nose and throat; oral and maxillofacial; plastic and orthopedic procedures. Focuses on knowledge of the involved anatomy, existing pathology, surgical hazards encountered, and a review of perioperative patient care.

**Prerequisite:** SUR 104 and SUR 105 with grades of C or better.

**Corequisite:** SUR 202

### **SUR 202 Clinical Applications II (0-15) 5 crs.**

Applies the principles and practice of basic to complex surgical procedures during clinical rotations in affiliated hospitals. Continues familiarizing the students to the scrub role in the operating room as Observation role, Second Scrub, and First Scrub. Intermediate level study includes the application of skills learned in the laboratory setting and SUR 105 Clinical Applications I with an emphasis on Ophthalmic, Otorhinolaryngology; Oral and Maxillofacial; Plastic and Reconstructive; Orthopedic surgical procedures. Focuses on knowledge, skills and professionalism necessary for perioperative case management.

**Prerequisite:** SUR 104 and SUR 105 with grades of C or better.

**Corequisite:** SUR 201

### **SUR 203 Surgical Procedures III (4-0) 4 crs.**

Examines specialized surgical procedures related to peripheral vascular, thoracic, cardiac and neurosurgery. Includes knowledge of the involved anatomy, existing pathology, surgical hazards encountered, and a review of perioperative patient care.

**Prerequisite:** SUR 201 and SUR 202 with grades of C or better.

**Corequisite:** SUR 204

### **SUR 204 Clinical Applications III (0-29) 6 crs.**

Applies the principles and practice of basic to major complex surgical procedures during clinical rotations in affiliated hospitals. Applies all knowledge learned while assisting the surgical team with the daily pre, peri and post-operative duties of a surgical technologist. Students will progress through increasingly complex first and second scrubbing surgical procedures as they move toward entry-level surgical technologist abilities. Intermediate level study includes the application of skills learned in the laboratory setting, SUR 105 Clinical Applications I and SUR 202 Clinical Applications II with an emphasis on Neuro; Peripheral Vascular and Cardiothoracic surgical procedures. Focuses on knowledge, skills and professionalism necessary for perioperative case management.

**Prerequisite:** SUR 201 and SUR 202 with grades of C or better.

**Corequisite:** SUR 203