

SURGICAL TECHNOLOGY (SURG)

SURG 120 Surgical Technology Clinical I 2-4 Credits

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to prepare the student to enter the surgical environment. This course provides an introduction to the operating room, observation of surgical procedures, direct participation in the preoperative (pre-op, intra-op, post-op) preparation of individual cases and professional roles and responsibilities of individual members of the surgical team. Direct supervision is provided by the clinical professional. Students must be admitted into Surgical Technology Program to enroll in this course. (6P)

Prerequisite(s): BIOL 2310, BIOL 2210, BIOL 2225, NURS 150

Corequisite(s): SURG 140, SURG 145

Repeatable: up to 4 credits

Learning Outcomes

1. Demonstrate of and adherence to Standard Precautions.
2. Demonstrate professional conduct and ethical practice in the clinical setting.
3. Demonstrate proper procedure for surgical scrub.
4. Demonstrate proper procedure for gowning and gloving self and others.
5. Identify and Utilize OR furniture and equipment appropriate to individual cases.
6. Demonstrate preoperative case/procedure preparation.
7. Locate basic instruments and assemble specified instrument sets.
8. Demonstrate knowledge and utilization of specialty and accessory equipment.
9. Demonstrate care, handling, and assembly of common equipment. 1
10. Create and maintain sterile field. 1
11. Identify suture materials and stapling devices. 1
12. Demonstrate preparation and handling techniques of suturing materials and stapling devices. 1
13. Demonstrate knowledge of skin preparation. 14Discuss, demonstrate, and apply principles of surgical positioning. 1
14. Identify, describe, and demonstrate the principles of transportation of the surgical patient. 1
15. Define and demonstrate the handling, labeling, and containment of specimens. 1
16. Explain and perform postoperative case, instruments, and room break down and preparation.

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SURG 140 Introduction to Surgical Technology 4 Credits (4)

This is an orientation to surgical technology theory, surgical pharmacology and anesthesia, technology sciences and patient care concepts and is designed to prepare the student to enter the surgical environment with entry-level knowledge necessary to understand patient responses to disease, illness, hospitalization, surgical procedures, commonly used pharmacological and anesthetic agents, and legal, moral, and ethical issues that could be encountered in the surgical environment.

Prerequisite(s): Admission to Surgical Technology Program; BIOL 2310, BIOL 2225, & NURS 150

Learning Outcomes

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SURG 145 Fundamentals of Perioperative Concepts & Techniques 5 Credits (5)

This is an in-depth coverage of perioperative concepts such as aseptic/sterile principles and practice, infectious processes, wound healing and creation and maintenance of the sterile field. This course is designed to prepare the student to enter the surgical environment with entry-level knowledge of aseptic technique principles and practices, the creation and maintenance of the sterile field including equipment, supplies and instrumentation, and basic case preparation and procedures. An introduction to diseases and disease processes that may be displayed by the surgical patient and the patient's bodily responses to disease are also included. (3+3P)

Prerequisite(s): Admission to Surgical Technology Program, BIOL 2310, BIOL 2210, BIOL 2225, & NURS 150

Repeatable: up to 5 credits

Learning Outcomes

1. Demonstrate principles and practices of aseptic/sterile techniques
2. Identify infectious processes and concepts of wound healing
3. Create a sterile field utilizing basic case preparation
4. Exhibit maintenance of the sterile field during procedures

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SURG 150 Surgical Procedures I 5 Credits (5)

This course is an introduction to surgical procedures and its related pathologies. Emphasis on surgical procedures related to general, obstetrics/gynecology, genitourinary, otorhinolaryngology and orthopedic surgical specialties incorporating instruments, equipment. It is designed to prepare the student to function actively in the surgical environment with entry-level knowledge of surgical procedures. This course expands the basic foundation principles and combines the study of common surgical procedures to include anatomy, physiology and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies and complication related to selected surgical procedures will be discussed. Admission to Surgical Technology Program necessary to enroll in the course. (5+3P)

Prerequisite(s): SURG 140, SURG 145, and SURG 120

Learning Outcomes

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SURG 155 Pharmacology for the Surgical Technology 2 Credits (2)

This is an orientation to surgical pharmacology and anesthesia and is designed to prepare the student to enter the surgical environment with knowledge necessary to categorize the classification of drugs, calculate drug dosages and identify the therapeutic use, routes of administration, indications, contraindications and adverse effects of pharmacologic agents used in the perioperative setting. This course is the foundation for the acquisition of program specific competencies as identified by the AST Core Curriculum.

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SURG 160 Surgical Procedures II 6 Credits (6)

This is an introduction to surgical procedures and related pathologies. Emphasis on surgical procedures related to thoracic, peripheral vascular, plastic/reconstructive, ophthalmology, cardiac and neurological surgical specialties incorporating instruments. The course is designed to prepare the student to continue to function actively in the surgical environment with entry-level knowledge of more complex surgical procedures. This course expands the basic foundation principles and combines the study of complex surgical procedures to include anatomy, physiology, and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies, and complications related to specific surgical procedures will be discussed. Realities of clinical practice and concepts of death and dying will also be discussed. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 150, SURG 260

Learning Outcomes

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SURG 230 Professional Readiness 2 Credits (2)

This course transitions the student into professional readiness for employment, professional readiness for attaining certification and professional readiness for maintaining certification status. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 140, SURG 145, SURG 120, SURG 150, SURG 260

Corequisite(s): SURG 160, SURG 265

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SURG 260 Surgical Technology Clinical II 4 Credits (4)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. This course is designed to provide the student the opportunity to functionally actively in the role as a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Applications of basic principles and practices combined with a supervised clinical experience participating in common surgical procedures is the focus. Admission to Surgical Technology Program is necessary to enroll in the course. (12P)

Prerequisite(s): SURG 120, SURG 140, & SURG 145

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SURG 265 Surgical Technology Clinical III 4 Credits (4)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to provide the student the opportunity to function actively in the role of a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Refinement and application of basic principles and practices combined with entry-level employment competency expectations is the focus. Preparation for the National Certification Examination for Surgical Technologists is also included. Admission to Surgical Technology Program necessary to enroll in the course. (9P)

Prerequisite(s): SURG 260

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