

**Central Ohio Technical College**  
**Course Description Listing –Surgical Technology Courses**  
**2009-2010 Academic Year**

**SUR-4601 Pharmacology for Surgical Assisting**

3 credit hours, 3 contact hours (3 hours lecture and 0 hours lab). Prerequisite: C grade or better (2.00) in BIO-1772 and BIO-1773. Course is graded A-E.

The student will be introduced to the study of pharmacology for patients of all ages. The role of the surgical assistant, drug control laws, methods of preparation, and abbreviations will be presented. This course is designed to introduce the student to the classifications of drugs, identification of expected actions and uses, common adverse effects, normal dosage ranges, and routes of administration. Prototype examples will be used in each classification. Relevant assessments of patients will be included. Upon satisfactory completion of this course the student should be able to understand and prepare medications for the safe administration to patients.

**SUR-4631 Fundamentals of Surgical Technology**

3 credit hours, 3 contact hours (3 hours lecture and 0 hours lab). Prerequisite: Admittance into the Surgical Technology program and concurrent enrollment in SUR-4632. Course is graded A-E.

This course is an introduction to surgical technology. Different types of health care facilities, the roles of the different surgical team members and aspects of the physical environment of the surgical suite are studied. The history of the development of surgery as well as ethical, moral, and legal responsibilities are discussed. In this course the student will also discuss communication skills, interpersonal and interdepartmental relationship skills needed.

**SUR-4632 Fundamentals of Surgical Technology Laboratory**

2 credit hours, 4 contact hours (0 hours lecture and 4 hours lab). Prerequisite: Admittance into the Surgical Technology program and concurrent enrollment in SUR-4631. Course is graded S/U.

During the laboratory exercise the students will practice sterile techniques, be introduced to surgical instrumentation, operating room equipment and creating a sterile field. Included in this course will be an opportunity to shadow a surgical technologist in surgery. This course is graded on a Satisfactory/Unsatisfactory basis.

**SUR-4633 Patient Care Concepts**

3 credit hours, 3 contact hours (3 hours lecture and 0 hours lab). Prerequisite: C grade (2.00) or better in high school biology or equivalent and concurrent enrollment in SUR-4634. Course is graded A-E.

The student will be introduced to the layout of the operating room suite, sterile and sub-sterile area. The importance of skin preparation, transportation, positioning and anesthesia of surgical patients will be present. The student will also be introduced to aseptic technique, care of specimen, use of thermoregulatory devices, vital signs, handling of blood replacement components, urinary catheterization, and emergency procedures.

**SUR-4634 Patient Care Concepts Laboratory**

2 credit hours, 4 contact hours (0 hours lecture and 4 hours lab). Prerequisite: C grade (2.00) or better in high school biology or equivalent and concurrent enrollment in SUR-4633. Course is graded S/U.

This course is designed to enable the student to become skilled in assisting with the preparation, transportation, positioning, and anesthesia of the surgical patient. Skills included in this course are: aseptic technique, positioning, skin preparation, care of specimens, use of thermoregulatory devices, vital signs, handling of blood replacement components, urinary catheterization and emergency procedures. This course is graded on a Satisfactory/Unsatisfactory basis.

**SUR-4635 Basic Case Preparation**

2 credit hours, 2 contact hours (2 hours lecture and 0 hours lab). Prerequisite: SUR-4633 and concurrent enrollment in SUR-4636. Course is graded A-E.

This course builds on the previously acquired knowledge of human anatomy and physiology, introduction to surgical technology, basic instrumentation, surgical equipment and supplies; sutures and stapling devices will be discussed and demonstrated. The student will learn the proper care, handling, use and assembly of instruments and equipment. Also discussed during this course will be draping techniques and maintenance of the sterile field.

**COTC Course Description Listing –Surgical Technology Courses  
2009-2010 Academic Year****SUR-4636 Basic Case Preparation Laboratory**

1 credit hour, 2 contact hours (0 hours lecture and 2 hours lab). Prerequisite: SUR-4633 and concurrent enrollment in SUR-4635. Course is graded S/U.

This laboratory course is designed to build on the student's knowledge of basic surgical technology skills, professionalism, and ethics. The role of the surgical technologist is developed and applied in laboratory procedures. This course is graded on a Satisfactory/Unsatisfactory basis.

**SUR-4637 Surgical Procedures I**

2 credit hours, 2 contact hours (2 hours lecture and 0 hours lab). Prerequisite: SUR-4633 and concurrent enrollment in SUR-4638. Course is graded A-E.

This course is designed to acquaint the student with the operating room procedures and techniques necessary to function as an assistant in the Operating Room. Discussed during this course will be the relevant anatomy, indications for surgery, special equipment and supplies, purpose and expected outcome and possible complications for procedures in the following surgical specialties: General and Gastrointestinal, Obstetric and Gynecologic, and Orthopedic. The student will have clinical experiences in the above areas, functioning as a second scrub, first scrub or assistant circulator under the supervision of a certified surgical technologist or registered nurse.

**SUR-4638 Surgical Procedures I: Clinical**

3 credit hours, 15 contact hours (0 hours lecture, 0 hours lab, and 15 hours clinical). Prerequisite: SUR-4633 and concurrent enrollment in SUR-4637. Course is graded S/U.

This course is designed to build on the student's knowledge of basic surgical techniques, professionalism, and ethics. The role of the surgical technologist is developed and applied in basic surgical procedures. The principles of asepsis and patient care concepts of positioning, prepping, draping, and procedural techniques are applied directly to the investigation of General, Gastrointestinal, Obstetrics, Gynecological and Orthopedic surgical procedures. Maintaining the integrity, safety, and efficiency of the sterile and non-sterile areas throughout surgical procedures will be emphasized. This course is graded on a Satisfactory/Unsatisfactory basis.

**SUR-4639 Surgical Procedures II**

2 credit hours, 2 contact hours (2 hours lecture and 0 hours lab). Prerequisite: SUR-4638 and concurrent enrollment in SUR-4640. Course is graded A-E.

This course is an extension of Surgical Procedures I. Discussed during this course will be the relevant anatomy, indications for surgery, special equipment and supplies, purpose and expected outcome and possible complications for procedures in the following surgical specialties: ophthalmic, ear/nose/throat, dental/oral/maxillofacial, plastic and reconstructive and neurological surgery.

**SUR-4640 Surgical Procedures II: Clinical**

3 credit hours, 15 contact hours (0 hours lecture, 0 hours lab, and 15 hours clinical). Prerequisite: SUR-4638 and concurrent enrollment in SUR-4639. Course is graded S/U.

This course is designed to build on the student's knowledge of surgical technology with emphasis on clinical surgical applications in ophthalmic, ear/nose/throat, dental/oral/maxillofacial, plastic and reconstructive and neurological surgical procedures. Emphasis is on further development of surgical skills. This course is graded on a Satisfactory/Unsatisfactory basis.

**SUR-4641 Surgical Procedures III**

2 credit hours, 2 contact hours (2 hours lecture and 0 hours lab). Prerequisite: SUR-4639 and concurrent enrollment in SUR-4642. Course is graded A-E.

This course is an extension of Surgical Procedures II. Discussed during this course will be the relevant anatomy, indications of surgery, special equipment and supplies, purpose and expected outcome and possible complications for procedures in the following surgical specialties: thoracic, cardiovascular, peripheral vascular, and urologic. The student will have clinical experience in the above areas, functioning as a second scrub, first scrub, or assist circulator under the supervision of a certified surgical technologist or registered nurse.

**COTC Course Description Listing –Surgical Technology Courses  
2009-2010 Academic Year****SUR-4642 Surgical Procedures III: Clinical**

3 credit hours, 15 contact hours (0 hours lecture, 0 hours lab, and 15 hours clinical). Prerequisite: SUR-4639 and concurrent enrollment in SUR-4641. Course is graded S/U.

This course is designed to build on the student's knowledge of surgical technology with emphasis on clinical surgical applications in thoracic, cardiovascular, peripheral vascular, and urologic surgical procedures. Emphasis is on further development of surgical skills. This course is graded on a Satisfactory/Unsatisfactory basis.

**SUR-4643 Pediatric Surgery**

2 credit hours, 2 contact hours (2 hours lecture and 0 hours lab). Prerequisite: SUR-4639 and concurrent enrollment in SUR-4644. Course is graded A-E.

This course is designed to acquaint the student with pediatric patients and a variety of surgical procedures unique to the pediatric patients.

**SUR-4644 Pediatric Surgery: Clinical**

1 credit hour, 5 contact hours (0 hours lecture, 0 hours lab, and 5 hours clinical). Prerequisite: SUR-4639 and concurrent enrollment in SUR-4644. Course is graded S/U.

This course is designed to build on the student's knowledge of surgical technology with emphasis on clinical surgical applications. Clinical experiences will emphasize adapting pediatric concepts in the surgical setting. Students will be given the opportunity to scrub in these pediatric specialty surgeries: General Surgery, Urology, Orthopedic, Neurosurgery, Thoracic surgery, Cardiovascular surgery, Ophthalmology, Plastic surgery, and ENT surgery. This course is graded on a Satisfactory/Unsatisfactory basis.

**SUR-4645 Advanced Surgical Technology Practicum**

2 credit hours, 2 contact hours (2 hours lecture and 0 hours lab). Prerequisite: SUR-4644 and concurrent enrollment in SUR-4646. Course is graded A-E.

This course focuses on continuing surgical theory. It provides study of special problems that correlate with the individual needs and interests of the student during clinical practice. Clinical supervised practice is an integral part of this course.

**SUR-4646 Advanced Surgical Technology Practicum: Clinical**

3 credit hours, 15 contact hours (0 hours lecture, 0 hours lab, and 15 hours clinical). Prerequisite: SUR-4644 and concurrent enrollment in SUR-4645. Course is graded S/U.

This course is designed to build on the student's knowledge of surgical technology with emphasis on clinical surgical applications. The student is expected to work with one preceptor during this course, and are expected to perform in the clinical practice with minimal assistance. This course is graded on a Satisfactory/Unsatisfactory basis.

**SUR-4647 Professional Trends and Issues in Surgical Technology**

3 credit hours, 3 contact hours (3 hours lecture and 0 hours lab). Prerequisite: SUR-4644. Course is graded A-E.

This course is designed to prepare the student for the workplace. Topics discussed will be: factors that affect the student's personal life, professional relations and organizations, preparation for the national certification examination, type of health care delivery agencies, accrediting agencies and job seeking skills.

**SUR-4649 Surgical Technology Seminar**

2 credit hours, 2 contact hours (2 hours lecture and 0 hours lab). Prerequisite: SUR-4647. Course is graded A-E.

This course is designed to provide the correlation between previously learned concepts and clinical application. It is designed to aid in transition from surgical technology student to entry level Surgical Technologist. Topics discussed in this course include General, OB/GYN, Vascular, GU, Cardiothoracic, Plastic and Ophthalmology surgeries. Requirements for ethical and legal practice as defined by the National Association of Surgical Technologists will be reviewed and discussed.

**COTC Course Description Listing –Surgical Technology Courses  
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**SUR-4651 Specialty Surgical Practice**

2 credit hours, 2 contact hours (2 hours lecture and 0 hours lab). Prerequisite: SUR-4647 and concurrent enrollment in SUR-4652. Course is graded A-E.

This course is a continuation of Professional Trends and Issues in Surgical Technology with additional surgical specialties presented. For example: Transplant surgery, trauma, ophthalmology, cardiac surgery, orthopedic, plastic, and neurology surgery are covered. The student will select two specialty areas and specialize in those areas. The student will be expected to transfer and build on previous content and experiences.

**SUR-4652 Specialty Surgical Practice: Clinical**

3 credit hours, 15 contact hours (0 lecture hours, 0 hours lab, and 15 clinical hours). Prerequisite: SUR-4647 and concurrent enrollment in SUR-4651. Course is graded S/U.

This course is designed to build on the student's knowledge of surgical technology with emphasis on two specialty clinical surgical applications. The student is expected to select two specialty areas and focus on those surgical areas. This course is graded on a Satisfactory/Unsatisfactory basis.