

**Virginia Western Community College**  
**SUR 140**  
**Surgical Care I**

**Prerequisites**

BIO 141, HLT141, SDV 101

**Course Description**

Introduces concepts of the surgical process including preparing the patient for surgery, transporting, positioning, and special preparation procedures of the surgical patient. Presents diagnostic and assessment procedures of the surgical patient including the importance of safety. Discusses the basic principles of aseptic technique. Lecture 3 hours per week

**Semester Credits: 3**

**Lecture Hours: 3 per week**

**Required Materials****Textbook:**

- Surgical Technology for the Surgical Technologist: A Positive Care Approach Cengage  
ISBN: 978-1-305-95641-4
- Study Guide to Accompany Surgical Technology for the Surgical Technologist Workbook  
ISBN: 978-1-30-595643-8

**Other Required Materials:**

- Surgical Equipment and Supplies ISBN: 978-0803645714
- Surgical Instrumentation, An Interactive Approach ISBN: 978-032352370-7

**Course Outcomes**

<b>At the completion of this course, the student should be able to:</b>
Clearly define guidelines, recommendations, terms, concepts of barriers, and evidence-based practice as they relate to aseptic technique and the principles of asepsis.
Describe and explain the importance of surgical attire, gowning and gloving, hand washing, hand disinfection, and the surgical scrub using correct methods
Understand how instrument names are used in the operating room while identifying the different types of finishes, their design, classification and function.
Discuss and describe the purpose of case preparation, counts, surgical techniques, case planning, Universal Protocols, prevention of retained items, and specimen care.
Discuss the principles of safe patient transport and transfer, communication, safe body mechanics, prevention of injury, basic positions, and all devices used in the perioperative environment.

Review the standards and guidelines for surgical prep methods, and various draping techniques, while incorporating safety, aseptic technique.
Describe and discuss the principles, processes, guidelines and hazards with regards to disinfection, sterilization, decontamination, and terminal cleaning.
Understand the relationship between technology and medicine by describing how heat transfer, electricity and its application during surgery are key components to patient safety. Discuss how computer networks are used in a professional medical setting.
Describe the uses of electrosurgery, lasers use, and patient safety precautions used during all.
Discuss the principles of wound management and the wound healing process; identify different methods of hemostasis and how applicable to the surgical wound.
Describe laparoscopic and robotic surgery as key elements incorporated as minimally invasive surgery.

**Topical Description**

Module Criteria/ Topics
<b>Module 1</b> Ch 7 Preventing Perioperative Disease Transmission Ch 12 Surgical Case Management
<b>Module 2</b> Ch 6 Biomedical Science Part 1 and 2 *This exam may contain material covered in previous module
<b>Module 3</b> Ch 12 Surgical Case Management *This exam may contain material covered in previous module*
<b>Module 4</b> Ch 6 Biomedical Science: Part 3 Ch 11 Hemostasis, Wound Healing, and Wound Closure