

**SUR 110**  
**INTRODUCTION TO SURGICAL TECHNOLOGY**

**COURSE DESCRIPTION**

Prerequisites: Acceptance in the Surgical Technology Program or B.O. 92 CHM 94 or CHM 94 and  
A MAT and ENG 9

Corequisites: SUR

This course provides a comprehensive study of the operative environment profession roles

- y Apply principles of physics to safe patient care practices in the operating room
  - y Discuss basic concepts related to rotics
  - z Describe concepts of geometry that are used in the design of surgical robots
  - zz Identify basic components and mechanisms of the robotic system
- List the clinical applications of rotics in the operating room

- Basic medical & surgical interventions
- A Examination
- B Diagnosis
- C Treatment

- Physical environment and safety standards
- A Traffic Patterns physical design
- B Safety considerations
- C

- X Physics
  - A Mechanics
  - B Properties of Matter
  - C Heat
  - D Sound vibrations and waves
  - E Electricity and Magnetism
  - F Light
  - G Modern physics

- XII Robotics
  - A Basic concepts
  - B Conic applications

- XIII Electricity
  - A Electric technology
  - B Principle of electric effects
  - C Types of current
  - D Electric receptacles

**XIV Robotics Applications (1077) (C100105) 09EIV1\_1 1077; 09EIV**