

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 robotics
 - 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 robotics 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