



Course Name: Surgical Procedures II

Course Number: SUR* E214

Credits: 3

Catalog description: This course includes a review of relevant anatomy and pathophysiology, diagnostic procedures, and surgical interventions for surgical procedures in the following areas: Neurological surgery, ophthalmology surgery, peripheral vascular surgery, thoracic surgery, cardiac surgery, emergency trauma surgery, and donor/procurement surgery. Laparoscopic, navigation, robotic, simulation, and endoscopic procedures are integrated into this course. Co-requisite to SUR 212.

Prerequisite: Math 100 up, MED*E125, BIO*E119, SUR*E109, SUR*E110, SUR*E111, SUR*E211, SUR*E213 & SUR*E215; all with a C+ or higher

Corequisite, or Parallel:

General Education Competencies Satisfied:

HCC General Education Requirement Designated Competency Attribute Code(s):

None

Additional CSCU General Education Requirements for CSCU Transfer Degree Programs:

None

Embedded Competency(ies):

None

Discipline-Specific Attribute Code(s):

SCI Science elective

Course objectives:

General Education Goals and Outcomes:

None



Course Specific Objectives:

1. Describe preoperative diagnostic techniques and pathophysiology.
2. Describe the surgical procedures within specialty areas.
3. For each surgical specialty, describe the following:
 - a. review relevant anatomy and pathophysiology
 - b. indications for surgery
 - c. preoperative preparation & positioning
 - d. special instrumentation, equipment, drugs & supplies
 - e. method of anesthesia
 - f. skin preparation
 - g. draping technique
 - h. incisions and closure
 - i. procedure descriptions, including possible complications
 - j. intraoperative duties
 - k. special considerations
4. Perform assigned role maintaining aseptic technique during a rapid OR set up to receive an emergency trauma surgery patient.

COURSE CONTENT

Neurosurgery

- Cranial Procedures
- Spinal Procedures
- Peripheral Nerve Procedures

Ophthalmic Surgery

- Eyelid Procedures
- Strabismus Procedures
- Corneal Procedures
- Lens Procedures
- Retinal Procedures
- Vitreous Procedures
- Glaucoma Procedures
- Other Related Procedures

Peripheral Vascular Surgery

- Angioplasty
- Atherectomy
- Embolectomy/Thrombectomy
- Bypass Grafting
- Endarterectomy
- Aneurysm/abdominal /Endo
- Shunt Procedures
- Vein Ligation & Stripping/Trivex



HOUSATONIC COMMUNITY COLLEGE

- Limb Salvage/Replantation/Amputation
- Thoracic Surgery
 - Bronchoscopy
 - Mediastinoscopy
 - Mediastinotomy
 - Thoracoscopy
 - Insertion of Chest Tubes
 - Thoracotomy
 - Lung Biopsy
 - Lung Resection
 - Thoracoplasty
 - Decortication
 - Thymectomy
- Cardiac Surgery
 - Cardiopulmonary Bypass
 - Valve Procedures
 - CABG
 - PTCA
 - Ventricular Aneurysm
 - Pacemaker
 - Cardioverter Defibrillator
 - Intra-aortic Balloon
 - Extra-corporeal Membrane Oxygenator
 - Pericardiectomy/Pericardial Window
 - Congenital Cardiac Anomalies
 - Mini Maze
- Trauma Surgery
 - Abdominal
 - Chest
 - Extremities/Fractures/Amputations
 - Injuries
 - Children
 - Compartment syndrome
 - Wound management /Dressing
 - a. Forensic Evidence



Procurement Surgery
Donor Sources
Harvesting
Preservation
Transplant Surgery
Organs
Tissues
Review

Teaching Methods: Lecture, Demonstration & Return Demonstration, Audio-Visual Aids, Observation, Assigned Readings, and Handouts

Grading: Exams: 5 Unit Exams 90%; Quiz 10%

Date Course Created: 3/2017

Date of Last Revision: 08/31/2017