

SRTC 211
Surgical Procedures Lab
2 Credits

Community College of Baltimore County
Common Course Outline

Description

SRTC 211 – Surgical Procedures Lab: enables the student to perform selected mock surgical procedures in the lab setting. Exercises emphasize learned skills necessary to complete selected mock surgical procedures to prepare for the clinical experience. Students demonstrate the necessary techniques and standards to be utilized during procedures such as, special instrumentation, supplies, and the latest technology the laboratory setting.

Pre-requisites: SRTC 201

Co-requisites: SRTC 210

Overall Course Objectives

Upon completion of this course, students will be able to:

1. adapt to selected surgeries for each body system;
2. demonstrate techniques for preparing the sterile field;
3. establish intraoperative case management sequence for each selected surgical procedure;
4. perform procedural steps for each selected surgical procedure;
5. assemble supplies, equipment, and instrumentation required for selected surgical procedures;
6. demonstrate appropriate patient position, surgical incision, and surgical drapes for selected surgical procedures;
7. generate correct diagnostic and surgical interventions of each selected surgical procedure;
8. implement appropriate handling of the surgical specimen;
9. predict postoperative considerations for selected surgical procedures;
10. construct the surgical technologists' role during the surgical procedure; and
11. demonstrate the ability to anticipate the needs of the surgical team.

Major Topics

- I. General surgical procedures
 - a. Appendectomy: open & laparoscopic approach
 - b. Breast procedures: breast biopsy modified radical mastectomy
 - c. Cholecystectomy: open & laparoscopic approach
 - d. Colon resection: with & without colostomy
 - e. Gastrectomy: with & without gastrostomy
 - f. Hemorrhoidectomy
 - g. Herniorrhaphy: open & laparoscopic approach

The Common Course Outline (CCO) determines the essential nature of each course.
For more information, see your professor's syllabus.

- h. Laparoscopic Nissen fundoplication
 - i. Liver resection
 - j. Splenectomy: open & laparoscopic approach
 - k. Thyroidectomy
 - l. Pancreaticoduodenectomy (Whipple procedure)
- II. Gynecological and obstetrical surgical procedures
- a. Cervical: biopsy, cervical cerclage, dilation & curettage, hysteroscopy
 - b. Uterine: cesarean section, endometrial ablation, myomectomy, uterine radiation seeding
 - c. Hysterectomy: abdominal, laparoscopic, robotic, vaginal approaches
 - d. Oophorectomy
 - e. Salpingectomy, sterilization procedures, tuboplasty, ectopic pregnancy
 - f. External genitalia: labiaplasty, perineal laceration, vulvectomy
 - g. Vaginal: ablation, marsupialization of Bartholin's gland
 - h. Pelvic: colporrhaphy, diagnostic laparoscopy, total pelvic exenteration, Wertheim procedure
- III. Genitourinary surgical procedures
- a. Kidney: nephrectomy, transplant, Wilms' tumor excision
 - b. Ureter: ureteroscopy, ureteropyelithotomy
 - c. Bladder: cystoscopy, transurethral resection of bladder tumor (TURBT), ileal conduit creation, suspension/sling
 - d. Prostate: transurethral resection of prostate (TURP), prostatectomy (open & laparoscopic approaches), radiation seeding
 - e. Penile: circumcision, epispadias repair, hypospadias repair, penile implant, penectomy
 - f. Testicular: hydrocelectomy, orchiopexy, orchiectomy
- IV. Ophthalmic surgical procedures
- a. Chalazion excision
 - b. Dacryocystorhinostomy
 - c. Entropion/ectropion repair
 - d. Enucleation
 - e. Extracapsular cataract excision
 - f. Iridectomy
 - g. Keratoplasty
 - h. Laceration repairs
 - i. Scleral buckle
 - j. Strabismus correction: recession and resection
 - k. Vitrectomy
- V. Otorhinolaryngology surgical procedures
- a. Cochlear implant
 - b. Mastoidectomy
 - c. Myringotomy
 - d. Stapedectomy
 - e. Tympanoplasty
 - f. Choanal atresia
 - g. Endoscopic sinus surgery
 - h. Nasal antrostomy

The Common Course Outline (CCO) determines the essential nature of each course.
For more information, see your professor's syllabus.

- i. Nasal polypectomy
 - j. Septoplasty
 - k. Turbinectomy
 - l. Laryngectomy
 - m. Parotidectomy
 - n. Radical neck dissection: glossectomy & mandibulectomy
 - o. Temporomandibular joint arthroscopy (TMJ)
 - p. Tonsillectomy & adenoidectomy (T&A)
 - q. Tracheotomy & tracheostomy
 - r. Uvulopalatopharyngoplasty
- VI. Oral and maxillofacial surgical procedures
- a. Maxillary & mandibular open reduction of internal fracture (ORIF)
 - b. Arch bar application
 - c. Cleft lip repair
 - d. Cleft palate repair
 - e. Odontectomy: tooth extraction
 - f. Lefort I fracture
 - g. Lefort II fracture
 - h. Lefort III fracture
 - i. Orbital ORIF
- VII. Plastic and reconstructive surgical procedures
- a. Blepharoplasty
 - b. Brow lift
 - c. Cheiloplasty/palatoplasty
 - d. Malar implants
 - e. Mentoplasty
 - f. Otoplasty
 - g. Rhinoplasty
 - h. Rhytidectomy
 - i. Breast augmentation
 - j. Mastopexy
 - k. Mammoplasty: nipple reconstruction, transverse rectus abdominus musculocutaneous flap (TRAM)
 - l. Abdominoplasty
 - m. Abdomen suction lipectomy
 - n. Superficial lesion/neoplasm
 - o. Skin grafts: full thickness, split thickness, microvascular pedicle graft
 - p. Scar revision
 - q. Dupuytren's contracture
 - r. Traumatic hand injuries
 - s. Radial dysplasia
 - t. Release of polydactyl
 - u. Release of syndactyl
- VIII. Orthopedic surgical procedures
- a. Shoulder acromioplasty: open & arthroscopic approach
 - b. Shoulder total arthroscopy
 - c. Bankart procedure: open & arthroscopic approach
 - d. Shoulder arthroplasty

The Common Course Outline (CCO) determines the essential nature of each course.
 For more information, see your professor's syllabus.

- e. Radius ORIF
 - f. Radius external fixator
 - g. Hip total arthroplasty
 - h. Hip ORIF
 - i. Femoral shaft fracture
 - j. Femur rodding
 - k. Knee arthroscopy
 - l. Anterior cruciate ligament repair (ACL)
 - m. Knee amputation: below and above the knee
 - n. Knee total arthroplasty
 - o. Achilles tendon repair
 - p. Triple arthrodesis
 - q. Bunionectomy
- IX. Cardiothoracic surgical procedures
- a. Bronchoscopy
 - b. Mediastinoscopy: lymph node biopsy
 - c. Thoracoscopy: video assisted thoracoscopy
 - d. Thoracotomy
 - e. Lobectomy
 - f. Pneumonectomy
 - g. Decortication of the lung
 - h. Lung transplant
 - i. Pectus excavatum repair
 - j. Pulmonary embolectomy
 - k. Aortic/mitral valve replacement
 - l. Atrial/ventricular septal defect repair
 - m. Closure of patent ductus arteriosus
 - n. Coronary artery bypass graft (CABG)
 - o. Intra-aortic balloon pump
 - p. Minimally invasive direct CABG
 - q. Off pump CABG
 - r. Ventricular assistive device insertion
 - s. Heart transplant
 - t. Repair of coarctation of the aorta
 - u. Tetralogy of Fallot repair
 - v. Ventricular aneurysm repair
- X. Peripheral vascular surgical procedures
- a. Abdominal aortic aneurysm with graft insertion
 - b. Angioplasty: endograft placement & endostent insertion
 - c. Aortofemoral bypass
 - d. Arteriovenous fistula and shunt
 - e. Femoropopliteal bypass
 - f. Carotid endarterectomy
 - g. Embolectomy
 - h. Vena cava device
 - i. Vein ligation and stripping
 - j. Venous access device
- XI. Neurology surgical procedures

The Common Course Outline (CCO) determines the essential nature of each course.
For more information, see your professor's syllabus.

- a. Carpal tunnel release: open & laparoscopic
- b. Cervical laminectomy: anterior & posterior
- c. Thoracic laminectomy
- d. Lumbar laminectomy: minimally invasive & spinal fixation
- e. Craniotomy: aneurysm repair
- f. Cranioplasty
- g. Craniosynostosis repair
- h. Rhizotomy
- i. Stereotactic procedures
- j. Transsphenoidal hypophysectomy
- k. Ulnar nerve transposition
- l. Ventriculoperitoneal shunt placement
- m. Ventriculoscopy

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- Weekly laboratory assignments
- Six quizzes
- Six laboratory skills assessments
- Professionalism
- Cumulative laboratory practicum

Date Revised: 10/5/2021

The Common Course Outline (CCO) determines the essential nature of each course.
For more information, see your professor's syllabus.