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Course Outline for SURG 52

SURGICAL SPECIALTIES

Effective: Fall 2014

I. CATALOG DESCRIPTION:

SURG 52 — SURGICAL SPECIALTIES — 6.00 units

This course provides the student with a systematic approach to a given surgical procedure. Addressed in this course are the most common surgical procedures of General Surgery, Gynecological and Obstetrical Surgery, Genitourinary Surgery, Otorhinolaryngology, Ophthalmology, Plastic Surgery, Neurosurgery, Orthopedics, Cardiothoracic Surgery, Peripheral Vascular Surgery, Oral and Maxillofacial Surgery. For each surgical procedure, lectures, discussions, and demonstrations include but are not exclusive to the surgical anatomy and pathophysiology, anesthetic considerations, positions, prepping, supplies, equipment, instrumentation, specimens, wound closure, dressings, post-operative care and complications. Steps of the surgical procedures and their rationales are explained using multi-media.

6.00 Units Lecture

Prerequisite

SURG 51 - Surgical Patient Care Concepts
with a minimum grade of C

Corequisite

SURG 53 - CLINICAL PRACTICE - SURG TECH

Grading Methods:

Letter Grade

Discipline:

	MIN
Lecture Hours:	108.00
Total Hours:	108.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

Before entering the course a student should be able to:

A. SURG51

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- Given a surgical procedure, describe a pathological condition for which it is performed;
- Identify diagnostic procedures most likely to be employed for each surgical specialty;
- For each surgical specialty, identify three instruments and describe their applications;
- List supplies and equipment common to each surgical specialty;
- Select an operative position appropriate for a given surgical procedure;
- Order the steps of five common surgical procedures;
- Correlate commonly used suture materials to the appropriate tissue approximation;
- Given a surgical specimen, describe its proper handling techniques;
- Describe the potential postoperative complications common to each surgical specialty.

V. CONTENT:

- Basic Surgical Interventions-Format
 - Anatomy
 - Physiology
 - Pathophysiology
 - Diagnostic tools
 - Surgical Intervention
 - Special considerations
 - Anesthesia
 - Positioning
 - Skin prep

- e. Draping
- f. Incision
- g. Supplies
- h. Equipment
- i. Instrumentation
- j. Steps of the procedure
- k. Counts
- l. Dressings
- m. Specimens
- n. Disposition of the patient
- o. Postoperative patient care
- p. Prognosis
- q. Complications
- B. Core Surgical Interventions
 - 1. Endoscopic General surgery
 - a. Choledochoscopy
 - b. Colonoscopy
 - c. Endoscopic retrograde cholangiopancreatography
 - d. Esophagoscopy
 - e. Sigmoidoscopy
 - 2. Endoscopic Gynecology
 - a. Colposcopy
 - b. Hysteroscopy
 - 3. Endoscopic Otorhinolaryngology
 - a. Microlaryngoscopy
 - b. Triple Endoscopy (laryngoscopy, bronchoscopy, and esophagoscopy)
 - 4. Endoscopic Genitourinary surgery
 - a. Cystoscopy
 - b. Transurethral resection of the prostate
 - c. Nephroscopy
 - d. Ureteroscopy
 - 5. General surgery
 - a. Colectomy
 - b. Colostomy
 - c. Endoscopic inguinal herniorrhaphy
 - d. Inguinal herniorrhaphy
 - e. Laparoscopic appendectomy
 - f. Laparoscopic cholecystectomy
 - g. Modified radical mastectomy
 - h. Open cholecystectomy with cholangiograms
 - 6. Obstetric and gynecologic surgery
 - a. Cesarean section
 - b. Laparoscopic assisted vaginal hysterectomy
 - c. Diagnostic laparoscopy
 - d. Operative laparoscopy with oophorectomy
 - e. Total abdominal hysterectomy with bilateral salpingo-oophorectomy
 - f. Vaginal hysterectomy
 - 7. Otorhinolaryngological surgery
 - a. Myringotomy with tube insertion
 - b. Septoplasty
 - c. Sinusoscopy
 - d. Temporomandibular joint arthroplasty
 - e. Thyroidectomy
 - f. Tonsillectomy and adenoidectomy
 - 8. Genitourinary Surgery
 - a. Nephrectomy
 - b. Orchiopexy
 - c. Suprapubic prostatectomy
 - 9. Orthopedic surgery
 - a. Bunionectomy with hammertoe correction
 - b. Carpal tunnel release
 - c. Knee arthroscopy
 - d. Shoulder arthroscopy
 - e. Lumbar laminectomy for decompression
 - f. Open reduction and internal fixation of the femur
 - g. Total hip arthroplasty
- C. Specialty Surgical Interventions
 - 1. Ophthalmic
 - a. Cataract extraction
 - b. Entropion / Ectropion
 - c. Recession and Resection
 - 2. Oral and Maxillofacial surgery
 - a. LeFort I
 - 3. Plastic and Reconstructive
 - a. Breast reconstruction
 - b. Rhytidectomy
 - c. Skin grafting
 - 4. Cardiothoracic Surgery
 - a. Bronchoscopy
 - b. Mediastinoscopy
 - c. Thoracoscopy
 - d. Thoracostomy
 - e. Thoracotomy for wedge resection
 - 5. Peripheral Vascular Surgery
 - a. Angioscopy
 - b. Aortofemoral bypass
 - c. Arteriovenous fistula/ shunt creation
 - d. Carotid endarterectomy
 - 6. Neurosurgical
 - a. Cervical discectomy

- b. Craniotomy for aneurysm, hematoma evacuation, tumor excision
- c. Lumbar discectomy
- d. Lumbar discoscopy
- e. Ventriculoperitoneal shunt placement

VI. METHODS OF INSTRUCTION:

- A. **Lecture** -
- B. Directed Reading
- C. Interactive CD-ROMs
- D. **Demonstration** -

VII. TYPICAL ASSIGNMENTS:

A. Reading assignment: Read Chapter 17, "Breast Surgery", Pages 566-584, Alexander's Care of the Patient in Surgery, 13th Edition. Rothrock, 2007, Mosby Elsevier. Complete the 50-question worksheet on breast surgery in preparation for an in-class quiz. B. Participate in demonstrations-return demonstrations of supplies, equipment and techniques involved in breast surgery. C. Use an Interactive CD-ROM on General Surgery Instruments to prepare for an in-class quiz.

VIII. EVALUATION:

A. **Methods**

- 1. Exams/Tests
- 2. Quizzes
- 3. Class Participation
- 4. Other:
 - a. Methods
 - 1. Multiple choice quizzes
 - 2. Participation in weekly lecture demonstration
 - 3. Exams

B. **Frequency**

- 1. Frequency
 - a. Weekly quizzes
 - b. Weekly participation in lecture-demonstration
 - c. At least one mid-term
 - d. Final Exam

IX. TYPICAL TEXTS:

- 1. Rothrock, Jane C *Alexander's Care of the Patient in Surgery*. 13th ed., Mosby Elsevier, 2007.

X. OTHER MATERIALS REQUIRED OF STUDENTS: