

Las Positas College
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Course Outline for SURG 53

CLINICAL PRACTICE - SURG TECH

Effective: Fall 2010

I. CATALOG DESCRIPTION:

SURG 53 — CLINICAL PRACTICE - SURG TECH — 11.00 units

This course consists of clinical experience in the operating room and provides students with the skills necessary to function as a beginning surgical technologist. Students will have exposure to the overall operation, policies, and procedures of practice. Under direct supervision and guidance of preceptors, students will gain proficiency in establishing and maintaining a sterile field, draping materials, use of needles, sutures and basic instrumentation, preparation and sterilization of supplies and anticipation of the surgeon's needs. Application of knowledge gained in previous courses will provide an opportunity for skill acquisition, safe practice, and the development of professional behaviors.

11.00 Units Lab

Prerequisite

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

Corequisite

SURG 52 - SURGICAL SPECIALTIES

Grading Methods:

Letter or P/NP

Discipline:

	MIN
Lab Hours:	594.00
Total Hours:	594.00

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

1. Describe the furnishings of a basic operating room;
2. Define the role of the surgical technologist and list the agencies governing the practice of the profession;
3. Given a selected piece of surgical equipment, discuss its purpose and a precaution to take when using it;
4. Given an application, identify the appropriate surgical supply item;
5. Assemble a Major Instrument set using an instrument count sheet;
6. Explain the steps of normal wound healing and describe factors that can either promote or prevent this process;
7. Distinguish between absorbable and non-absorbable sutures and cutting versus round suture needles;
8. Identify devices that can either monitor or regulate physiologic parameters of temperature, heart rate, oxygenation, and blood pressure;
9. Demonstrate infection control practices such as aseptic technique, surgical hand scrub, gowning and gloving, standard precautions;
10. Describe the purposes for and the basic rules of a surgical skin prep and urinary catheterization;
11. Describe methods of decontamination, disinfection, and sterilization of instruments and equipment;
12. Given a patient position, choose the equipment to maintain this position and the drapes used to create a sterile field around it;
13. Describe the handling of a selected surgical specimen;
14. Demonstrate a working knowledge of medication, proper dosages and administration methods and techniques;
15. Accurately identify and interpret different types of medication orders;
16. Compare and contrast methods agents and techniques of anesthesia in administration;
17. Analyze a given ethical dilemma and identify the ethical principle(s) involved;
18. Differentiate between the following legal terms; accountability, negligence, malpractice;
19. Demonstrate professional behavior and communication skills.

IV. MEASURABLE OBJECTIVES:

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

- A. Prepare equipment, instruments, and supplies for a common surgical procedure;

- B. Demonstrate the ability to recall sequence in planning for, setting up, carrying out, and breaking down a surgical procedure;
- C. Pass instruments and supplies;
- D. Assist in positioning the patient for surgery;
- E. Assist the surgeon or circulating nurse as needed;
- F. Serve in various roles such as first scrub, circulator, and first assistant in the operating room;
- G. Practice effective infection control methods: aseptic technique, sterile technique, sterilization, and disinfection;
- H. Maintain safe practices for patients and personnel with regards to biological hazards, mechanical hazards, chemical hazards, and standard precautions;
- I. Receive and pass surgical specimens and prepare these specimens for transport to the laboratory;
- J. Demonstrate healthcare professional behaviors: confidentiality, communication, attendance, standards of practice, obeying institutional policies, and procedures.
- K. Give a written report of a surgical procedure following the format of a surgeon's preference card.

V. CONTENT:

- A. Orientation to the clinical site
 - 1. Surgical suite
 - 2. Locations within the hospital
 - 3. Floor plan
 - 4. Operating rooms
- B. Duties of the surgical technologist for a given procedure
 - 1. Preoperative
 - a. Patient care concepts
 - b. Nonsterile responsibilities
 - c. Sterile responsibilities
 - 2. Intraoperative
 - a. Patient care concepts
 - b. Nonsterile responsibilities
 - c. Sterile responsibilities
 - 3. Postoperative
 - a. Patient care concepts
 - b. Nonsterile responsibilities
 - c. Sterile responsibilities
- C. Hands-on experience with a variety of
 - 1. Instruments
 - 2. Supplies
 - 3. Equipment
- D. Surgical specialty procedures
 - 1. Endoscopic
 - a. choledochoscopy
 - b. colonoscopy
 - c. endoscopic retrograde cholangiopancreatography (ERCP)
 - d. Esophagoscopy
 - e. sigmoidoscopy
 - 2. Obstetric and gynecologic
 - a. Colposcopy
 - b. Hysteroscopy
 - 3. Otorhinolaryngologic
 - a. Microlaryngoscopy
 - b. Triple endoscopy (laryngoscopy, bronchoscopy, and esophagoscopy)
 - 4. Genitourinary
 - a. Cystoscopy
 - b. Nephroscopy
 - c. Ureteroscopy
 - 5. General Surgery
 - a. Colectomy
 - b. Colostomy
 - c. Endoscopic inguinal herniorrhaphy
 - d. Inguinal herniorrhaphy (adult male)
 - e. Laparoscopic appendectomy
 - f. Laparoscopic cholecystectomy
 - g. Modified radical mastectomy with axillary node dissection
 - h. Open cholecystectomy with cholangiogram
 - 6. Obstetric and gynecologic
 - a. Cesarean section
 - b. Laparoscopic assisted vaginal hysterectomy (LAVH)
 - c. Laparoscopy
 - d. Operative laparoscopy with oophorectomy
 - e. Total abdominal hysterectomy with bilateral salpingo-oophorectomy
 - f. Vaginal hysterectomy
 - 7. Otorhinolaryngologic
 - a. Myringotomy
 - b. Septoplasty
 - c. Sinuscopy
 - d. Temporomandibular joint (TMJ) arthroplasty
 - e. Thyroidectomy
 - f. Tonsillectomy and adenoidectomy (T&A)
 - 8. Genitourinary
 - a. Nephrectomy
 - b. Orchiopexy/orchidopexy
 - c. Suprapubic prostatectomy
 - d. Transurethral resection of the prostate (TURP)
 - 9. Orthopedic
 - a. Bunionectomy with hammer toe correction
 - b. Carpal tunnel release
 - c. Knee arthroscopy
 - d. Lumbar laminectomy
 - e. Open reduction internal fixation (ORIF) of the femur
 - f. Shoulder arthroscopy
 - 10. Endoscopic

- a. Cardiothoracic
 - b. Bronchoscopy
 - c. Mediastinoscopy
 - d. Neurosurgical
 - e. Ventrículoscopy
- 11. Ophthalmic
 - a. Cataract extraction
 - b. Entropion/ectropion repair
 - c. Recession and resection (R&R)
- 12. Oral and maxillofacial
 - a. LeFort I
- 13. Plastic and reconstructive
 - a. Breast reconstructive
 - b. Rhytidectomy
 - c. Skin grafting
- 14. Cardio thoracic
 - a. Thoracoscopy
 - b. Thoracostomy
 - c. Thoracotomy-pulmonary wedge resection
- 15. Peripheral vascular
 - a. Angioscopy
 - b. Aortofemoral bypass
 - c. Arteriovenous (AV) fistula/shunt creation/insertion
 - d. Carotid endarterectomy
- 16. Neurosurgical
 - a. Cervical discectomy
 - b. Craniotomy-aneurysm repair
 - c. Craniotomy-hematoma evacuation
 - d. Craniotomy-tumor excision
 - e. Lumbar discectomy
 - f. Lumbar discoscopy
 - g. Ventriculoperitoneal (V/P) shunt placement
- E. Safe practices for patients and personnel
- F. Practice using aseptic and sterile techniques
- G. Orientation to the Central Service department
- H. Practice using a variety of communications skills
- I. Clinical roles
 - 1. Scrub role – first scrub with assist
 - 2. Scrub role – first scrub solo
- J. Practice using written resources in preoperative setting
 - 1. Surgeon preference card
 - 2. Policy and procedure manual
 - 3. Instrument texts

VI. METHODS OF INSTRUCTION:

- A. Daily coaching of skills
- B. 576 hours of clinical performance (32 hours per week x 18 weeks)
- C. Daily monitoring of performance

VII. TYPICAL ASSIGNMENTS:

A. Reading assignment: Reading related to a specific procedure assigned for the following day. Example: Student is assigned to scrub the following day on a laparotomy for removal of a stomach, s/he will be expected to read Alexander's section on gastrectomy. B. Know the surgical anatomy and the diseases for which a gastrectomy is performed. C. Describe the steps of the procedure. D. Identify the instruments specific to the removal of a stomach and any supplies and equipment mentioned in the text. E. Know the names and purposes of the medications used for the procedure, the sutures, and the dressings. F. Prepare the set-up for the procedure, plus all the other skills expected (surgical scrub, gowning and gloving.) G. Demonstrate correct aseptic hand washing. H. Prepare, with the help of your preceptor, a list of 5 professional behaviors you want to focus on for the first two weeks of clinical practice. I. Journal your observations and reactions to your first day in the operating room. J. Discuss a specific experience with your class members in your weekly forum. Share what you learned from the experience. K. Submit a surgical procedure log. L. Submit written reports on surgical procedures following a prescribed format.

VIII. EVALUATION:

A. **Methods**

- 1. Papers
- 2. Class Performance
- 3. Other:
 - a. Methods
 - 1. Clinical skills records
 - 2. Performance evaluations by Clinical Preceptors
 - 3. Final clinical evaluation completed by Clinical Preceptors
 - 4. Direct observation by Las Positas College instructors
 - 5. Completion of skills list
 - 6. Completion of reports of surgical procedures

B. **Frequency**

- 1. Frequency
 - a. Weekly completion of clinical skills records
 - b. Weekly performance evaluations
 - c. Final clinical evaluation
 - d. Weekly direct observation by Las Positas College instructor
 - e. Final completion of skills list
 - f. Weekly written reports of surgical procedures

IX. TYPICAL TEXTS:

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

2. Pieknik, Rebecca *Suture and Surgical Hemostasis: A Pocket Guide...*, Saunders Elsevier, 2006.
3. Tighe, Shirley M *Instrumentation for the Operating Room: A Photographic Manual*. 7th ed., Mosby Elsevier, 2007.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Name badge