

University of Arkansas - Fort Smith
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General Syllabus

SURG 15406 Surgical Technology Procedures II

Credit Hours: 6 Lecture Hours: 6 Laboratory Hours: 0

Prerequisites: SURG 15206 Surgical Technology Procedures I and SURG 15310 Surgical Technology Practicum I

Corequisite: SURG 15510 Surgical Technology Practicum II

Effective Catalog: 2018-2019

I. Course Information

A. Catalog Description

Students learn the advanced principles, procedures and techniques of specific, general, and specialty surgeries. The course content is correlated with anatomy and physiology, along with operating room experiences.

B. Additional Information - None

II. Student Learning Outcomes

A. Subject Matter

The following learning outcomes are classified as (C) Cognitive, (P) Psychomotor, (A) Affective

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

1. Analyze the factors that influence the closure of each wound layer. (C)
2. Interpret specific application of synthetic mesh, synthetic tissue replacement materials. (A)
3. Analyze the diagnostic and surgical interventions for a patient undergoing surgery of the alimentary canal. (A)
4. Demonstrate proper patient positioning for the patient undergoing gastrointestinal surgery. (P)
5. Identify the anatomy, physiology, pathophysiology of the female reproductive system. (C)
6. Plan the perioperative course of care for the patient undergoing a cesarean section. (C)

7. Discuss the postoperative considerations for the patient undergoing a total hysterectomy. (C)
8. Review the anatomy, physiology, and pathophysiology of the male genitourinary system. (C)
9. Name the diagnostic procedures for the patient undergoing a transurethral resection of the prostate. (C)
10. Discuss the anatomy, physiology, and pathophysiology of the musculoskeletal system. (C)
11. Compare draping, gloving, and aseptic practices in orthopedic surgery to other specialties.
12. Discuss the anatomy, physiology, and pathophysiology of the central and peripheral nervous systems. (C)
13. Analyze diagnostic and surgical interventions for the patient undergoing neurologic surgery. (A)
14. Verbalize the preoperative preparation of an ophthalmic surgery patient. (C)
15. Discuss the anatomy, physiology, and pathophysiology of the eye. (C)
16. Discuss the postoperative care of the cataract patient. (C)
17. Discuss long term emotional effects of the burn patient. (A)
18. Demonstrate a skin graft set up. (P)
19. Review different plastic surgery procedures and desired outcomes (C)
20. Contrast the pediatric and adult patient undergoing reconstructive surgery. (C)
21. Differentiate the safety needs of the pediatric versus adult tonsillectomy patient. (C)
22. Discuss the safety needs of the patient undergoing radical neck surgery. (C)
23. Explain the risk factors involved in throat surgery. (C)
24. Demonstrate correct positioning for the thoracic surgery patient. (P)
25. Verbalize use and dangers of water-seal chest drainage system. (C)
26. Analyze the diagnostic procedures and rationale for intervention for the patient undergoing cardiac surgery. (A)
27. Identify the incision for the patient undergoing cardiac artery bypass graft. (C)
28. Discuss various peripheral vascular procedures. (C)
29. Explain the diagnostic procedures for peripheral vascular procedures. (C)
30. List three ways to deliberately arrest the heart. (C)

B. University Learning Outcomes

This course enhances student abilities in the following areas:

Analytical Skills

Critical Thinking Skills: Students will correctly identify the instrument set up for varied surgeries.

Communication Skills (written and oral)

Students will correctly document per patient records, the instrumentation used during the surgical process.

Global and Cultural Perspectives

Students will identify interventions prohibited by some cultures.

III. Major Course Topics

- A. Diagnostic Procedures and Introduction to Disease Process
- B. Incisions
- C. General Surgery: Breast, hernia, Thyroid, and Parathyroid
- D. General Surgery: Alimentary Tract
- E. Obstetric and Gynecologic Surgery
- F. Genitourinary Surgery
- G. Orthopedic Surgery
- H. Ophthalmic Surgery
- I. Otorhinolaryngology Surgery
- J. Oral and Maxillofacial Surgery (ORIF)/Arch Bar Application
- K. Neurosurgery
- L. Plastic and Reconstructive Surgery
- M. Cardiac Surgery
- N. Thoracic Surgery
- O. Peripheral Vascular Surgery
- P. Disaster Preparation