University of Arkansas - Fort Smith
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General Syllabus

SUR 153A Surgical Technology Practicum I

Credit Hours: 10 Lecture Hours: Laboratory Hours: 20

Prerequisites: American Heart Association's CPR for Healthcare Providers, HLTH 1473 Medical Terminology, BIOL 1153/1151 Biological Science/Laboratory, BIOL 1463/1461 Human Anatomy/Laboratory, MATH 1403 College Algebra or higher MATH, ENGL 1213 Composition II or ENGL 1233 Honors Composition, PSYC 1163 General Psychology, and ITA 1001 Computer-Word Processing

Prerequisite or Corequisite:

Corequisite: SUR 1526 Surgical Technology Procedures I

Effective Catalog: 2018-2019

I. Course Information

A. Catalog Description

Students are introduced to the physical environment of the operating suite with selected clinical experiences in the community hospitals. Students have many experiences in the care and use of instruments and surgical supplies, as well as multiple opportunities to scrub for surgical procedures.

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. Use correct medical terminology, weights, measures, and symbols. (P)
2. Properly handle instruments, drapes, sutures, and sponges in common operative procedures with the beginning skill level. (P)
3. Demonstrate the proper method of care and cleaning of surgical instruments and equipment. (P)

4. Develop the skills which will enable him/her to function safely, accurately, and efficiently in the clinical area. (A)
5. Discuss the principles and rationale of aseptic technique and apply them in the clinical area. (C), (P)
6. Practice safe and correct transportation of patient to the surgical area. (P)
7. Position the patient properly on the operating table in various surgical positions and demonstrate correct body mechanics and principles of protection for the patient. (P)
8. Demonstrate the correct procedure for caring for specimens. (P)
9. Explain and apply methods and principles of sterilization and disinfection. (P)
10. Differentiate between the types of anesthesia, administration, and effects on the patient. (C)
11. Demonstrate compliance with hospital procedure concerning intra-operative counts. (P)
12. Practice standard precautions in relation to blood-borne pathogens. (P)
13. Demonstrate laser operation and safety measures. (P)
14. List the environmental hazards of the surgical area and relate these to patient and personnel safety. (C), (A)
15. Explain the rationale behind sterilization versus disinfection. (C)
16. Discuss the mechanics of high speed and high vacuum sterilizer and demonstrate ability to operate. (C)
17. Show awareness of the differing reactions of patients to the stress of the surgical environment. (A)
18. Define ethical, moral, and legal decision making and the surgical technologist's responsibility to the patient. (A)
19. Demonstrate a surgical conscience by applying the principles of asepsis with 100% accuracy. (A)

B. University Learning Outcomes

This course enhances student abilities in the following areas:

Analytical Skills

Critical Thinking Skills: Students will identify correct patient positioning for varied surgeries.

Communication Skills (written and oral)

Students will maintain case logs of all procedures completed in the role of surgical technologist.

Ethical Decision Making: Students will identify the ethical responsibility of the surgical technologist during the surgical process.

Global and Cultural Perspectives: Students will demonstrate how their discipline impacts or is impacted by those of different cultures.

III. Major Course Topics

A. Introduction to the Sterile Environment
B. Introductions to the Surgical Environment: Roles as STSR, STSA and Assistant Circulator Role, Management, Employee Qualities, Hospital Organization
C. Law and Ethics: Chart Review, Consents, Living Wills, Communication, Teamwork, Risk Management
D. The Patient, Transcultural Care, Biopsychosocial Needs
E. General Anesthesia: Techniques and Agents
F. Local and Regional Anesthesia: Techniques and Agents
G. Safety: Electricity, Biohazards, Chemicals
H. Essentials of Asepsis: Managing the Sterile Field
I. Sterilization and Disinfection, Sterile Storage, OR Environmental Cleaning, Lab Assessments
J. Attire, Scrubbing, Gowning, Gloving
K. Operating Room Preparation: Case Management
L. Surgical Instrumentation and Equipment
M. Diagnostic Procedures
N. Wound Healing, Exposure, Wound Closure, Materials: Sutures, Staplers, Hemostasis, Incision, Implants
O. Patient Preparation, Patient Identification, Patient Positioning, Skin Preparation, Draping, Transportation
P. Sponges, Dressings and Packings, Drainage and Tubes, and Sponge, Sharp and Instrument Counts
Q. Introduction to the Use of Medications on the Sterile Field
R. Introduction of Technological Sciences in the OR: Lasers and Robotics
S. Care of the Patient in Surgical Emergencies

Students will be required to maintain case logs of all procedures completed in the scrub role, assistant circulator role, and observation. Case requirements are found on your course website along with a log for your use. Faculty will check your logs to ensure you complete all requirements. Definitions of the roles and requirements are found on your course website.