

ST 114 Pharmacology for the Surgical Patient

Credit Hours: 3 HRS

Scheduled hours per week:

Lecture: 3 HRs

Lab: 0

Other: 0

Catalog Course Description: This course has been designed to introduce the surgical technology students to their role in handling medications and solutions in the surgical setting. A discussion of medication use during the peri-operative period will assist the learner in understanding patient response to various medications.

Pre-requisites: ST 110, ST 113, BIOL 200/201, ENG 101

Pre/Co-requisites: ST 211, COMM 202

Course Learning Outcomes:

1. Utilize safe drug handling and aseptic technique when preparing medications from administration.
2. Describe the actions, uses, and modes of administration of drugs and anesthetic agents in the care of the surgical patient.
3. Discuss legal-ethical considerations for the surgical technologist when handling medications.
4. Practice role behaviors that exemplify team cooperation to promote safety in the preparation of drugs and solutions.
5. Demonstrate the role of the surgical technologist and identify the role of the circulator in handling medications and solutions.

Topics to be studied:

1. Definition of anesthesia
2. Assessment to determine anesthesia choice
3. Surgical team roles during administration
4. Pre-operative medication of the patient
5. General anesthesia
6. Local anesthesia
7. Complications of anesthesia
8. Alternative anesthesia methods
9. Medication measurements
10. Terminology
11. Medications
12. Care and handling of medications and solutions
13. Medications used in surgery

Relationship of course to program outcomes:

The course learning objectives for ST 114 are congruent with, and derived from, the five (5) program outcomes designated by the Surgical Technology Program.

Relationship of Course to General Education Learning Outcomes:	
Composition and Rhetoric Students illustrate a fundamental understanding of the best practices of communicating in English and meet the writing standards of their college or program-based communication requirements.	
Science & Technology Students successfully apply systematic methods of analysis to the natural and physical world, understand scientific knowledge as empirical, and refer to data as a basis for conclusions.	X
Mathematics & Quantitative Skills Students effectively use quantitative techniques and the practical application of numerical, symbolic, or spatial concepts.	X
Society, Diversity, & Connections Students demonstrate understanding of and a logical ability to successfully analyze human behavior, societal and political organization, or communication.	
Human Inquiry & the Past Students interpret historical events or philosophical perspectives by identifying patterns, applying analytical reasoning, employing methods of critical inquiry, or expanding problem-solving skills.	
The Arts & Creativity Students successfully articulate and apply methods and principles of critical and creative inquiry to the production or analysis of works of art.	
5/3/2016	

Special projects or requirements of the course:

- Demonstration and return demonstration of medication preparation
- Computer and internet access required
- Safe practice in transferring medications and solutions from the non-sterile area to the sterile field
- The procedure for identifying a medication on the sterile field

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