

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. SURG

COURSE NUMBER: 1120

NUMBER OF CREDITS: 2

Lecture: 2 Lab: 0 OJT: 0

Course Title:

Surgical Pharmacology

Catalog Description:

Surgical Pharmacology will enable you to assist in the preparation of drugs used in the operating room. You will study the uses, routes of administration, equipment needed and possible side effects of these drugs. The metric and apothecary systems of measure will be studied. You will convert standard time to military time, do temperature conversions, and study how to prepare a solution. Emphasis will be placed on the legal and safety aspects of drug administration.

Prerequisites or Necessary Entry Skills/Knowledge:

SURG 1110 and SURG 1130

FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

- Goal 1: Communication: By meeting the following competencies:
- Goal 2: Critical Thinking: By meeting the following competencies:
- Goal 3: Natural Sciences: By meeting the following competencies:
- Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- Goal 7: Human Diversity: By meeting the following competencies:
- Goal 8: Global Perspective: By meeting the following competencies:
- Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- Goal 10: People and the Environment: By meeting the following competencies:

Topics to be Covered

Measurements and Basic Arithmetic review.

Terminology related to medication usage.

Care and handling of drugs and solutions.

Medications used in surgery.

Types of intraoperative anesthesia care.

Student Learning Outcome

Convert equivalents from one system to another and accurately identify, mix and measure drugs for intraoperative patient use.

Recognize the abbreviations used for units of measure in basic pharmacology.

Define general terminology associated with medication use.

Demonstrate procedures for the care, handling and labeling of medications and solutions.

Discuss the different agency roles in drug regulation and history of accomplishments in pharmacology.

Identify the principles of medication use and the surgical technologists role in administration of medications for the care of the surgical patient.

Become familiar with the various forms of medications and how they are administered in the preoperative, intraoperative and postoperative.

Explain the general principles of anesthesia administration.

Is this course part of a transfer pathway: Yes No

***If yes, please list the competencies below**

Revised Date: 1/24/2022