MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

Faculty is required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT. Surgical Technology COURSE NUMBER: SURG1120
NUMBER OF CREDITS: 2
COURSE TITLE: Surgical Pharmacology

CATALOG DESCRIPTION: This course 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.

AUDIENCE: Surgical Technology Students

FULFILLS MN TRANSFER CURRICULUM AREA(S) *(Leave blank if not applicable)*
Area: by meeting the following competencies:
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PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: Take concurrently with medical terminology and Operating Room Theory. BIOL2245, SURG1130

LENGTH OF COURSE: 2 hours per week for 15 weeks

THIS COURSE IS USUALLY OFFERED:
Every other year ☐ fall ☑ spring ☐ summer ☐ undetermined ☐

Four goals are emphasized in course at Minnesota West Community & Technical College:

1) ACADEMIC CONTENT: The academic objectives of this course are:
   a. Calculate medication terminology and dosages
   b. Apply terminology to medication use
   c. Prepare and manage medications and solutions (i.e. proper labeling)
   d. Use medications in the care of the surgical patient
   e. Analyze the basic principles of anesthesia: methods of administration, agents and techniques, monitoring devices and complications/interventions

2) THINKING SKILLS: This course will help students improve the effectiveness of their thinking skills through practicing medication calculations using proper terminology and techniques in measuring and labeling medications used in the surgical setting. The students will gain a basic understanding of the use of anesthesia in the surgical setting and the impact it will have on the role of the surgical technologist.

3) COMMUNICATIONS SKILLS: This course will help students improve their oral and written communication skills through working with medications within the scope of their practice in a
lab setting utilizing role playing with students in other roles that are experienced in the surgical setting.

4) HUMAN DIVERSITY: This course will help students recognize, understand, and appreciate human diversity through interactions with the other members of the healthcare team.

TOPICS TO BE COVERED:
1. Measurements and Basic Arithmetic review
2. Terminology related to medication usage
3. Care and handling of drugs and solutions.
4. Medications used in surgery
5. Anesthesia

LIST OF EXPECTED COURSE OUTCOMES:
1. Convert equivalents from one system to another and accurately identify, mix and measure drugs for patient use.
2. Define general terminology associated with medication use.
3. Demonstrate procedures for the care and handling of medications and solutions.
4. Identify the principles of medication use in the care of the surgical patient.
5. Explain the general principles of anesthesia administration.

LEARNING/TEACHING TECHNIQUES used in the course are:
- Collaborative Learning
- Problem Solving
- Interactive Lectures
- Student Presentations
- Individual Coaching
- Creative Projects
- Films/Videos/Slides
- Demonstrations
- Other (describe below)
- Lecture
- Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:
- Reading
- Tests
- Individual Projects
- Oral Presentations
- Worksheets
- Collaborative Projects
- Textbook Problems
- Papers
- Portfolio
- Group Problems
- Term Paper
- Other (describe below)

EXPECTED STUDENT LEARNING OUTCOMES: See above.
"This course will cover the characteristics of hazardous wastes and its safe handling, storage, and disposal."

The information in this course outline is subject to revision

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or via your preferred Telecommunications Relay Service.

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