Faculty members are 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 Lecture: 2 Lab:______

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.

FULFILLS MN TRANSFER CURRICULUM AREA(S)
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:

Prerequisites or Necessary Entry Skills/Knowledge:
Take after or concurrently with HC 1180 Medical Terminology. SURG 1110 Microbiology, SURG 1130 Operating Room Theory
### 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. Types of intraoperative anesthesia care.

### Student Learning Outcomes

1. Convert equivalents from one system to another and accurately identify, mix and measure drugs for intraoperative patient use.
2. Recognize the abbreviations used for units of measure in basic pharmacology.
3. Define general terminology associated with medication use.
4. Demonstrate procedures for the care, handling and labeling of medications and solutions.
5. Discuss the different agency roles in drug regulation and history of accomplishments in pharmacology.
6. Identify the principles of medication use and the surgical technologists role in administration of medications for the care of the surgical patient.
7. Describe the various forms of medications and how they are administered in the preoperative, intraoperative and postoperative.
8. Explain the general principles of anesthesia administration.

### Is this course part of a transfer pathway: Yes ☐ No ☒