

**SEWARD COUNTY COMMUNITY COLLEGE
COURSE SYLLABUS**

I. TITLE OF COURSE: ST1303- Pharmacology for the Surgical Technologist

**II. COURSE DESCRIPTION: 3 credit hours
3 credit hours of lecture and 0 credit hours of lab per week.**

An on-line theory course designed to introduce the scientific principles of pharmacology. This course defines the rationale for use of specific drugs, their effects and major side effects on the surgical patient, how they may alter or influence surgical intervention and the role the surgical technologist plays in handling and labeling medications. For each unit of credit, a minimum of three hours per week with one of the hours for class and two hours for studying/preparation outside of class is expected.

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Pre-requisite: Admission to the Surgical Technology program

III. PROGRAM AND/OR DEPARTMENT MISSION STATEMENT:

The SCCC surgical technology program will provide an education forum responsive to the needs of the student and also responsive to the health care community, both locally and nationally, focusing on professionalism and contributing to quality patient care.

IV. TEXTBOOK AND MATERIALS:

1. Junge, T. (2017). Practical Pharmacology for the Surgical Technologist. Boston, MA: Cengage Learning.
2. AST (2018). Surgical Technology for the Surgical Technologist: A Positive Care Approach, (5th ed) Clifton Park, NY: Cengage Learning with MindTap.

V. SCCC OUTCOMES

Students who successfully complete this course will demonstrate the ability to do the following SCCC Outcomes.

I: Read with comprehension, be critical of what they read, and apply knowledge gained to real life

II: Communicate ideas clearly and proficiently in writing, appropriately adjusting content and arrangement for varying audiences, purposes, and situations.

IV: Demonstrate mathematical skills using a variety of techniques and technologies.

V: Demonstrate the ability to think critically by gathering facts, generating insights, analyzing data, and evaluating information

VI. COURSE OUTCOMES:

1. Compare and contrast methods, agents, and techniques of anesthesia administration and preparation.
2. Correlate anesthesia monitoring devices with patient homeostasis.
3. Explain anesthesia complications and interventions.
4. Calculate medication conversions and dosages.
5. Apply general terminology to medication use.
6. Prepare and manage medications and solutions.

7. Use medications in the care of the surgical patient.

VII. COURSE OUTLINE:

1. Medication measurements
2. Terminology
3. Medications
4. Care and handling of medications and solutions
5. Medications used in surgery
6. Anesthesia
7. Surgical team roles during administration
8. Preoperative medication of the patient
9. General anesthesia
10. Local anesthesia

VIII. INSTRUCTIONAL METHODS:

Discussion, Internet research, online learning games/activities

IX. INSTRUCTIONAL AND RESOURCE MATERIALS:

Textbooks, current periodicals, Internet

X. METHODS OF ASSESSMENT:

SCCC Outcome #1 will be assessed and measured by class participation and writing assignments indicating comprehension of material read.

SCCC Outcome #2 will be assessed and measured by writing assignments throughout the course.

SCCC Outcome #4 will be assessed and measured by examination and student performance in clinical when preparing medications used in the operative field.

SCCC Outcome #5 will be assessed and measured by the student score on course examinations, and clinical performance evaluations

XI. ADA STATEMENT:

Under the Americans with Disabilities Act, Seward County Community College will make reasonable accommodations for students with documented disabilities. If you need support or assistance because of a disability, you may be eligible for academic accommodations. Students should identify themselves to the Dean of Students at 620-417-1106 or going to the Student Success Center in the Hobbie Academic building, room 149 A.