

SEWARD COUNTY COMMUNITY COLLEGE COURSE SYLLABUS

I. TITLE OF COURSE: NR1102- Pharmacology for Nursing I

II. COURSE DESCRIPTION: 2 credit hours 2 credit hours of lecture and 0 credit hours of lab per week.

This course will introduce the student to core concepts in pharmacology and the terms, principles, and pharmacological concepts related to providing nursing care. It will provide an overview of the major categories of pharmacological agents and emphasize safe medication administration. A review of contemporary issues in pharmacology is also included.

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.

Pre-requisite: Pre-requisite: Admission to the Nursing Program.
Co-requisite: Foundations of Nursing Care I

III. PROGRAM AND/OR DEPARTMENT MISSION STATEMENT:

The Nursing Program at Seward County Community College prepares competent practical and associate degree nurses to assist in meeting the health care needs of clients by delivering quality wholistic care.

IV. TEXTBOOK AND MATERIALS:

REQUIRED

1. Kee, J., Marshall, S., Forrester, C., Woods, K. (9th Edition, 2021). Clinical Calculations. St. Louis, Missouri: Elsevier.
2. McCuiston, L., Vuljoin Dimaggio, K., Winton, M., Yeager, J. (10th edition, 2021). Pharmacology a patient centered nursing apporoach. St. Louis, Missouri: Elsevier.
3. Vallerand, A., Sanoski, C., Deglin, J. (17th Edition, 2020). Davis's drug guide for nurses. Philadelphia: F.A. Davis Company.

V. SCCC OUTCOMES

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

- 1: Read with comprehension, be critical of what they read, and apply knowledge gained to real life
- 2: Communicate ideas clearly and proficiently in writing, appropriately adjusting content and arrangement for varying audiences, purposes, and situations.
- 3: Communicate their ideas clearly and proficiently in speaking, appropriately adjusting content and arrangement for varying audiences, purposes, and situations.
- 4: Demonstrate mathematical skills using a variety of techniques and technologies.
- 5: Demonstrate the ability to think critically by gathering facts, generating insights, analyzing data, and evaluating information
- 6: Exhibit skills in information and technological literacy
- 7: Understand each other, moving beyond simple acceptance to embracing and celebrating the rich dimensions of diversity by working as a team to learn, engaging with community, exhibiting cultural awareness, and creating equity.

9: Exhibit workplace skills that include respect for others, teamwork competence, attendance/punctuality, decision making, conflict resolution, truthfulness/honesty, positive attitude, judgment, and responsibility

VI. COURSE OUTCOMES:

1. Apply understanding of foundational principles for medication therapy (drug categories, mechanism of action, half-life, etc.)
2. Adhere to accepted safety standards of medication administration while providing nursing care across the life span.
3. Utilize therapeutic communication techniques to facilitate the promotion, maintenance, and restoration of health in clients with diverse cultural population.
4. Collaborate as a member of the interdisciplinary health care team by providing safe and skillful therapeutic care.
5. Demonstrate competency for calculating and administering medication administration.

VII. COURSE OUTLINE:

- I. Introduction to Pharmacology
 - a. History
 - b. Classification
 - c. Drug Names
- II. Drug Approval & Regulation
 - a. Role of the FDA
 - b. Controlled Substances
 - c. Nursing Responsibilities
- III. Movement of Medications
 - a. Pharmacokinetics
 - b. Pharmacodynamics
 - c. Therapeutic vs Non-Therapeutic Response
- IV. Principles of Medication Administration
 - a. The Nursing Process in Pharmacology
 - b. Nursing Responsibilities and Considerations
 - c. Rights of Medication Administration
 - d. Reading Medication Orders
- V. Medication Administration I
 - a. Oral Medication Administration
 - b. Topical Medication Administration
 - c. Inhaled Medication Administration
 - d. Safety & Competency
- VI. Medication Administration II
 - a. Subcutaneous Medication Administration
 - b. Intramuscular Medication Administration
 - c. Intradermal Medication Administration
 - d. Insulin Administration
 - e. Safety & Competency
- VII. Medication Administration III
 - a. Dosage Calculation
 - b. Safety & Competency
- VIII. Client Education
 - a. Nursing Roles and Responsibilities
- IX. Medication Administration IV
 - a. Administering Medication through Gastric Tubes
 - b. Administering Tube Feedings
 - c. Nursing Responsibilities and Considerations
- X. Risk Reduction
 - a. Medication Errors
 - b. Safety Devices and Scanning

- c. Individual Variations in Drug Response
- d. Monitoring Side Effects and Contraindications
- XI. Medication Administration V
 - a. Medications for Eyes, Ears & Nose
 - b. Administration of Otic Medications
 - c. Administration of Optic Medications
 - d. Administration of Nasal Sprays
- XII. Medication Consideration Across the Lifespan
 - a. Introduction to Pediatric Dosing
 - b. Considerations for Older Adults
 - c. Polypharmacy
- XIII. Complementary & Alternative Therapy
 - a. Complementary and Alternative Medications & Treatments
 - b. Role of the Nurse in Providing CAM
 - c. Experimental Treatments and Medications
- XIV. Medications to Promote Comfort
 - a. Introduction to Sleep Aids
 - b. Opioid Pain Medications
 - c. Non-Opioid Pain Medications
 - d. Responsibility of the Nurse
- XV. Introduction to Intravenous Fluids
 - a. IV Fluids: Hypotonic, Isotonic and Hypertonic
 - b. Medications used for Electrolyte Imbalances
 - c. Medications used for Fluid Overload

VIII. INSTRUCTIONAL METHODS:

Lecture, discussion, demonstration, computer assisted instruction including online assignments, medication computation worksheets; skills laboratory and clinical instruction (including pre and post conference).

IX. INSTRUCTIONAL AND RESOURCE MATERIALS:

Handouts, computer assisted instruction, supplies and equipment used in hospitals and the skills lab settings, selected reference readings

X. METHODS OF ASSESSMENT:

1. SCCC Outcome #1 will be assessed and measured by class participation, written examinations and written assignments indicating comprehension of material read.
2. SCCC Outcome #2 will be assessed and measured by writing assignments and by documentation in the clinical areas.
3. SCCC Outcome # 3 will be assessed through skills lab and clinical interaction
4. SCCC Outcome #4 will be assessed and measured by written examination and in the clinical areas particularly with medication administration.
5. SCCC Outcome #5 will be assessed and measured by written examinations, verbal report
6. SCCC Outcome #6 will be assessed and measured by clinical competencies, testing, and in the skills lab.
7. SCCC Outcome #7 will be assessed and measured by class participation, clinical care, and medication administration to members of society.
8. SCCC Outcome #9 will be assessed and measured by class and clinical participation, ability to respond to clinical situations, attendance, ability to work as a team member, and overall dependability.

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 Hubble Academic building, room 149 A.

Syllabus Reviewed: 7/9/2020