

COURSE SYLLABUS

LAST REVIEW	Spring 2021
COURSE TITLE	Pharmacology in Nursing I
COURSE NUMBER	Health Professions
DEPARTMENT	Nursing/Registered Nurse
CIP CODE	51.3801
CREDIT HOURS	1
CONTACT HOURS/WEEK	Class: 1
PREREQUISITES	None
COURSE PLACEMENT	This course is part of a selective admission program. Students must be admitted to the Nursing/Registered Nurse program to enroll in this course.

COURSE DESCRIPTION

This course provides students with an introduction to medication delivery across the lifespan as it relates to the registered nurse's role in the patient care team. Dosage calculation for oral, topical, subcutaneous and intramuscular delivery will be introduced and the student will learn to implement the technique of dimensional analysis. The mechanism of action, side effects, and nursing management of clients taking common medications will be covered.

PROGRAM ALIGNMENT

This course is part of a program aligned through the Kansas Board of Regents and Technical Education Authority. For more information, please visit:

https://kansasregents.org/workforce_development/program-alignment

PROGRAM LEARNING OUTCOMES

1. Integrate caring behaviors in practicing the art and science of nursing within a diverse population.
2. Implement professional standards and scope of practice within legal, ethical, and regulatory frameworks.
3. Collaborate with clients and members of the inter-professional health care team to optimize client outcomes.
4. Formulate safe and effective clinical judgements guided by the nursing process, clinical reasoning, and evidence-based practice.
5. Provide leadership in the management of care to meet client needs using available resources and current technology.
6. Generate teaching and learning processes to promote and maintain health and to reduce risks for a global population.

7. Demonstrate effective communication methods to manage client needs and to interact with other health care team members.

TEXTBOOKS

<http://kckccbbookstore.com/>

METHODS OF INSTRUCTION

A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE

- I. Introduction to Pharmacology
 - A. Principles of pharmacokinetics and dynamics
 - B. Principles of safe medication administration
 - C. Pharmacology and the Nursing Process

- II. Dosage Calculation
 - A. Dimensional analysis
 - B. Medication errors and reduction of errors

- III. Common Medication Classifications
 - A. Medications for Comfort (Acute/Chronic Pain)
 1. Mechanism of action
 2. Side effects
 3. Nursing Management

 - B. Medications for Cognition (Alzheimer's Dementia, Delirium)
 1. Mechanism of action
 2. Side effects
 3. Nursing Management

 - C. Medications for Elimination (UTI)
 1. Mechanism of action
 2. Side effects
 3. Nursing Management

 - D. Medications for Fluid Balance (Dehydration/Fluid Overload)
 1. Mechanism of action
 2. Side effects
 3. Nursing Management

 - E. Medications for Immunity (Immunizations)

1. Mechanism of action
2. Side effects
3. Nursing Management

F. Medications for Metabolism (Osteoporosis)

1. Mechanism of action
2. Side effects
3. Nursing Management

G. Medications for Sensory Perception (Glaucoma)

1. Mechanism of action
2. Side effects
3. Nursing Management

H. Medications for Tissue Integrity (Pressure Injury, Varicella Zoster)

1. Mechanism of action
2. Side effects
3. Nursing Management

COURSE LEARNING OUTCOMES

Upon successful completion of this course, the student will:

- A. The student will explain the responsibility of the nurse in safe medication administration. (EPSLO 1, 2, & 4)
- B. The student will demonstrate basic dosage calculation utilizing dimensional analysis. (EPSLO 4 & 5)
- C. The student will discuss the use, mechanism of action and side effects associated with selected classifications of medications. (EPSLO 4)
- D. The student will discuss nursing interventions required for clients treated with selected classifications of medications. (EPSLO 4 & 5)

ASSESSMENT OF COURSE LEARNING OUTCOMES

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

COLLEGE POLICIES AND PROCEDURES

Student Handbook

<https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf>

College Catalog

<https://www.kckcc.edu/academics/catalog/index.html>

College Policies and Statements

<https://www.kckcc.edu/about/policies-statements/index.html>

Accessibility and Accommodations

<https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html>