

COURSE SYLLABUS

LAST REVIEW	Spring 2021
COURSE TITLE	Pharmacology in Nursing II
COURSE NUMBER	NURS 0107
DIVISION	Health Professions
DEPARTMENT	Nursing/Registered Nurse
CIP CODE	51.3801
CREDIT HOURS	2
CONTACT HOURS/WEEK	Class: 2
PREREQUISITES	NURS 0106
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 is an advancement of the role of the professional nurse in the safe administration of medications across the lifespan. Advanced dosage calculation will be taught for intravenous medication delivery. 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://kckccbookstore.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. Intravenous Medication Delivery
 - A. Dosage calculation
 - B. Methods of administration

- II. Common Medication Classifications
 - A. Medications for Fluid and Electrolytes (Electrolyte Balance/Imbalance)
 1. Mechanism of action
 2. Side effects
 3. Nursing Management

 - B. Medications for Clotting (DVT/VTE)
 1. Mechanism of action
 2. Side effects
 3. Nursing Management

 - C. Medications for Cognition (Autism/ADHD, Down Syndrome)
 1. Mechanism of action
 2. Side effects
 3. Nursing Management

 - D. Medications for Digestion (Cholecystitis)
 1. Mechanism of action
 2. Side effects
 3. Nursing Management

 - E. Medications for Elimination (Crohn's, Bowel Obstruction, Diverticular Disease)
 1. Mechanism of action
 2. Side effects
 3. Nursing Management

- F. Medications for Gas Exchange (Influenza, Asthma, Pneumonia, COPD, Obstructive Sleep Apnea, RSV, Otitis Media)
 - 1. Mechanism of action
 - 2. Side effects
 - 3. Nursing Management

- G. Medications for Metabolism (Diabetes Mellitus, DKA/HHS, Obesity Hyper/hypothyroid)
 - 1. Mechanism of action
 - 2. Side effects
 - 3. Nursing Management

- H. Medications for Mobility (MS, Duchenne's MD, Parkinson's Disease, Spinal Cord Injury)
 - 1. Mechanism of action
 - 2. Side effects
 - 3. Nursing Management

- I. Medications for Mood and affect (Anxiety Disorders, Depression/Post-partum depression, Obsessive-Compulsive Disorder)
 - 1. Mechanism of action
 - 2. Side effects
 - 3. Nursing Management

- J. Medications for Perfusion (Hypertension, Peripheral Vascular Disease, Iron Deficiency Anemia, Heart Failure across the Lifespan)
 - 1. Mechanism of action
 - 2. Side effects
 - 3. Nursing Management

- K. Medications for Reproduction (Ante/Intra/Post-Partum, Prematurity, Newborn Care and Assessment)
 - 1. Mechanism of action
 - 2. Side effects
 - 3. Nursing Management

- L. Medications for Sexuality (Family planning, Sexually Transmitted Infections)
 - 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 demonstrate advanced dosage calculation utilizing dimensional analysis. (EPSLO 1, 2, & 4)
- B. The student will discuss the use, mechanism of action and side effects associated with selected classifications of medications. (EPSLO 4)
- C. The student will select 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>.