

MASTER COURSE OUTLINE

A. PNUR 1130 Pharmacology

B. COURSE DESCRIPTION:

This course introduces and demonstrates scope of practice, pharmacokinetics, pharmacodynamics, medication terminology, drug classifications, adverse side effects, contraindications to drug use, dosage calculations, lab values, legal responsibilities and safety issues related to non- parenteral/parenteral and topical medication administration. Emphasis is placed on drug classification and nursing care related to the safe administration of medications to patients across the life span. Pre-requisite: Admission to Practical Nursing Program; Co-requisite: PNUR1110, PNUR1120, PNUR1140.

(3 Cr – 3 lect, 0 lab)

C. Core Theme: Critical Thinking

D. RIVERLAND INSTITUTIONAL LEARNING OUTCOMES:

This course addresses the following Riverland Institutional Learning Outcome(s):

- ILO 1: critical thinking (*Core Theme Goal 2*)
- ILO 2: awareness of the larger global community (*Core Theme Goal 7 or 8*)
- ILO 3: ethical, engaged citizenship (*Core Theme Goal 9 or Goal 10*)
- ILO 4: communication and collaboration (*Discipline Goal 1 and by any learning outcome(s) involving communication or collaboration*)

E. MAJOR CONTENT AREAS:

- Principles of Pharmacology
 - Drugs and the body
 - Toxic effect of drugs
 - The nursing process in drug therapy
 - Patient safety in medication administration
 - Pharmacology dosage calculations
- Introduction to Major Drug Classifications and Mechanism of Action
 - Analgesics
 - Antihypertensive
 - Antiarrhythmics
 - Vasodilators
 - Anti-infectives
 - Antiseizure
 - Anticholinergic
 - Anti-lipid
 - Diuretics

- Electrolyte replacements
- Anticoagulants
- Antiplatelets
- Laxatives
- Immunosuppressants
- Hormones
- Antineoplastics
- Antiemetics
- Bronchodilators
- Anti-asthmatics
- Proton pump inhibitors
- H2 receptor blockers
- Vitamins and minerals
- Insulins
- Oral hypoglycemics
- For each drug classification, prototype medications will be discussed highlighting them by generic and trade names, usual dosage, indications and nursing interventions.

F. GOAL TYPE, OBJECTIVES AND OUTCOMES:

GOAL TYPE	OBJECTIVES Students will be able to	OUTCOMES The student will successfully
<u>**Critical Thinking</u>	recognize and articulate the value assumptions that underlie and affect decisions, interpretations, analysis and evaluations made by ourselves and others.	1. identify and explain the relationship between medication administration procedures, the role of the nurse within the healthcare team and their connection to patient safety.
<u>CS</u>	INFORMATION/TECHNOLOGY utilize information technology in health care settings. (SLO #1)	1. identify reliable information related to pharmacology that supports patient care, reduces reliance on memory, and enhances competency within the practice setting. (1.4)
<u>CS</u>	NURSING JUDGMENT/EVIDENCE BASED CARE utilize evidence based nursing judgment when prioritizing care, implementing interventions, reporting changes, and promoting the health of individual patients across the lifespan within the healthcare system. (SLO #3)	1. list the major classifications of medications, common medications within each classification, potential/actual complications (side effects), contraindications, and rationales for medication administration. (3.4)
<u>CS</u>	PATIENT/RELATIONSHIP CENTERED CARE demonstrate effective communication skills while providing patient care founded on basic physical, developmental spiritual, cultural, functional, and psychosocial needs of individual patients across the lifespan. (SLO #4)	1. identify information needed for patients taking various classifications of medications. (4.5)

<u>CS</u>	PROFESSIONAL IDENTITY AND ETHICAL BEHAVIOR demonstrate professional behaviors and accountability to legal and ethical nursing practice standards for a competent Practical Nurse. (SLO #5)	1. describe the legal and ethical implications/aspects of medication administration. (5.3)
<u>CS</u>	SAFETY recognize and report changes and responses to interventions to an RN or the appropriate licensed HCP while providing a safe environment for patients, self, and others. (SLO #7)	1. describe principles of safe medication administration in relation to pharmacology, pharmacokinetics, and pharmacodynamics and the nurse's role in preventing medication errors. (7.3)

G. SPECIAL INFORMATION:

This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact Accessibility Services at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request. Special program needs include a calculator, nursing uniform, insignia patch, Riverland nametag, stethoscope, and watch with a second hand. A student enrolled in this course must have current immunizations, CPR certification, passed a background check, and must be able to provide their own transportation to class and clinical locations. The student must also be of good health and able to lift and transfer patients without restriction.

H. COURSE CODING INFORMATION:

Course Code O/Class Maximum 80; Letter Grade

Revision date: 04/05/16; 09/06/16; 03/14/23

AASC Approval date: 10/20/16; 04/18/23

*Riverland Community College Disciplines	MnTC Goal Number
Communication (CM)	1
Natural Sciences (NS)	3
Mathematics/Logical Reasoning (MA)	4
History and the Social & Behavioral Sciences (SS)	5
Humanities and Fine Arts (HU)	6

**Riverland Community College Core Themes	MnTC Goal Number
Critical Thinking (CT)	2
Human Diversity (HD)	7
Global Perspective (GP)	8
Ethical and Civic Responsibility (EC)	9
People and the Environment (PE)	10

*These five MnTC Goals have been identified as Riverland Community College Disciplines.
** These five MnTC Goals have been identified as Riverland Community College Core Themes. NOTE: The Minnesota Transfer Curriculum “10 Goal Areas of Emphasis” are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.

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