



Course Outline for: NURS 2820 Pharmacology and the Role of the Professional Nurse

A. Course Description

1. Number of credits: 3
2. Lecture hours per week: 3
3. Prerequisites: NURS 2700 and NURS 2750 or NURS 2720 and NURS 2750
4. Corequisites: NURS 2800 and NURS 2850
5. MnTC Goals: None

This course introduces theoretical concepts that enable students to provide safe and effective care related to pharmaceuticals and natural products to diverse clients across the lifespan. A framework is presented for approaching the study of pharmacotherapeutics including pharmaceutical research and regulation, quality and safety, major drug classifications, and clinical management.

B. Date last reviewed/updated: January 2022

C. Outline of Major Content Areas

1. Professional Development & Identity in relation to nursing management of pharmacological considerations.
 - A. Attributes and roles of a nurse
 - i. Clinical Decision-Making & Judgement
 - ii. Ethics
 - iii. Social Justice
 - B. Care Competencies
 - i. Collaboration
 - ii. Quality & Safety
 - iii. Teaching & Learning
 - C. Health Care Delivery
 - i. Evidence-based Practice
 - ii. Health Care Infrastructure
2. Physiological Integrity in relation to nursing management of pharmacological considerations.
 - A. Physiological Homeostasis & Regulation
 - i. Fluid & Electrolyte Balance
 - ii. Acid-Base Balance
 - iii. Thermoregulation

- iv. Cellular Regulation
- v. Intracranial Regulation
- vi. Metabolism
- vii. Elimination
- viii. Sexuality & Reproduction
- ix. Oxygenation
- x. Perfusion
- B. Protection and Movement
 - i. Immunity
 - ii. Inflammation
 - iii. Infection
 - iv. Tissue integrity
 - v. Sensory perception
 - vi. Comfort
 - vii. Mobility
 - viii. Rest
- 3. Psychosocial Integrity in relation to nursing management of pharmacological considerations.
 - A. Psychosocial Homeostasis & Regulation
 - i. Adherence
 - ii. Cognitive function
 - B. Behavioral Resilience
 - i. Coping/Stress/Anxiety
- 4. Lifespan Growth and Development in relation to nursing management of pharmacological considerations.
 - A. Determinants of Health
 - i. Genetics
 - II. Culture
 - III. Individual behaviors
 - IV. Social and economic factors

D. Course Learning Outcomes

The student will be able to:

1. Demonstrate knowledge of pharmacotherapeutics related to complex medication administration, safety and efficacy.
2. Identify the roles of the professional nurse as part of the interdisciplinary team in relation to medication administration.
3. Develop a framework of clinical decision making based on the nursing process to guide safe medication administration.
4. Utilize evidence-based resources to access pertinent information about pharmaceuticals and natural products.
5. Discuss the cultural and ethical aspects in pharmacology.
6. Describe the process of pharmaceutical approval and regulation.

E. Methods for Assessing Student Learning

Each semester, cognitive learning will be evaluated primarily by written examinations and quizzes, including alternative format, multiple choice and short answer questions, and case studies and scenarios. A minimum of 78% must be earned to successfully pass the course.

F. Special Information

Refer to nursing student handbook for additional details