

College of San Mateo
Official Course Outline

1. **COURSE ID:** NURS 615 **TITLE:** Pharmacology for Nurses: Practical Applications
Units: 3.0 units **Hours/Semester:** 48.0-54.0 Lecture hours; and 96.0-108.0 Homework hours
Method of Grading: Letter Grade Only

2. **COURSE DESIGNATION:**

Degree Credit
Transfer credit: CSU

3. **COURSE DESCRIPTIONS:**

Catalog Description:

Course provides practical application of the pharmacological principles of drug therapy to the Nursing Practice. Discussion will stress the utilization of key drugs prescribed to treat different disease states. Lectures are organized by body system in order to correlate with the nursing pharmacology text currently being used (Summer only).

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**

Upon successful completion of this course, a student will meet the following outcomes:

1. Apply nursing methods, protocols and procedures to appropriate care situations.
2. Use the nursing process, which emphasizes critical thinking, independent judgment and continual evaluation as a means to determine nursing activities.
3. Meet required course objectives.

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**

Upon successful completion of this course, a student will be able to:

1. Apply nursing methods, protocols and procedures to appropriate care situations.
2. Use the nursing process, which emphasizes critical thinking, independent judgment and continual evaluation as a means to determine nursing activities.

6. **COURSE CONTENT:**

Lecture Content:

1. Introduction (brief):
 - A. Pharmacological principles: Pharmacokinetics, Drug Absorption & Excretion
 - B. Calculation of doses: simple ratio method
 - C. Routes of administration
2. The RN's role in Drug Administration
 - A. The Drug Order
 - B. The Use of Nursing Process
 - C. National Patient Safety Goals
 - D. Continuum of Care
3. CNS:
 - A. Psychotropics (anti-anxiety, antidepressants, sedatives, stimulants)
 - B. Anticonvulsants
 - C. Parkinson meds
 - D. Narcotic analgesics
 - E. Pain management - opioids
4. Autonomic NS
5. Cardiovascular
 - A. Cardiac drugs
 - B. Antihypertensives
 - C. Anticoagulants
 - D. Antilipemic
6. Renal & GU (genito-urinary) drugs:
 - A. Diuretics
 - B. Female & Male reproductive agents
7. Endocrine:
 - A. Pituitary

- B. Thyroid
- C. Pancreas & Diabetes
- D. Adrenal
- 8. Respiratory: Cough & cold, COPD, inhalation therapy
- 9. Anti-infectives: ATB, Antifungals, Antivirals, etc.
- 10. Anti-Inflammatory: Non-steroidal (NSAIDs) vs. Steroids
- 11. Immune System drugs
- 12. GI (gastro-intestinal):
 - A. Antacids
 - B. Acid-Blockers
 - C. Antidiarrheals & Laxatives
 - D. Antiemetics
 - E. Nutritional supplements
- 13. Dermatological agents
- 14. Ophthalmics agents: Glaucoma meds
- 15. Otic
- 16. Blood-forming agents: Iron and agents for anemia

7. REPRESENTATIVE METHODS OF INSTRUCTION:

Typical methods of instruction may include:

- A. Lecture
- B. Discussion
- C. Other (Specify): Students will be required to complete learning activities online utilizing the textbook publisher learning management system.

8. REPRESENTATIVE ASSIGNMENTS

Representative assignments in this course may include, but are not limited to the following:

Writing Assignments:

Written reports

Sample writing assignment:

Complete a written report on the usage and potential side effects of a particular medication.

Reading Assignments:

Read assigned chapters in textbook.

Sample reading assignment:

Read chapter 22 - Antihypertensive Drugs

Other Outside Assignments:

Online activities - Audio/Visual presentations, case-studies, quizzes, and critical thinking activities.

9. REPRESENTATIVE METHODS OF EVALUATION

Representative methods of evaluation may include:

- A. Class Participation
- B. Exams/Tests

10. REPRESENTATIVE TEXT(S):

Possible textbooks include:

- A. Lilley, L., et al.. *Pharmacology and the Nursing Process*, 9th edition ed. St. Louis, MO: Mosby, 2020

Other:

- A. Online course access for textbook.

Origination Date: November 2021
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Course Originator: Janis Wisherop