

BUTTE COLLEGE

COURSE OUTLINE

I. CATALOG DESCRIPTION

NSG 61 - Pharmacology

2 Unit(s)

Prerequisite(s): Admission to ADN Program

Co-requisite(s): NSG 67, NSG 68, NSG 69, NSG 71

Recommended Prep: NONE

Transfer Status: CSU

34 hours Lecture

This course is a study of the fundamental concepts of pharmacology, with a focus on pharmacokinetics, pharmacodynamics, and related nursing implications for the major drug classes. Nursing process and cultural implications will be discussed for the basic drug classifications. Graded only.

II. OBJECTIVES

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

- A. Identify the standards of professional practice, including legal, ethical and regulatory framework for administration of medications.
- B. Describe therapeutic communication.
- C. Perform assessments related to medication administration.
- D. Apply the steps of the nursing process in delivery of medications.
- E. Evaluate the client's values, customs, and cultural habits that affect medication compliance.
- F. Propose patient education strategies related to medication therapy.
- G. Explore cost efficient strategies in the delivery of nursing care related to medication therapy.

III. COURSE CONTENT

A. Unit Titles/Suggested Time Schedule

Lecture	
<u>Topics</u>	<u>Hours</u>
1. General Principles of Pharmacology: Nursing Process and Drug Therapy	2.00
2. General Principles of Pharmacology: Pharmacologic Principles	3.00
3. Central Nervous System Agents: Analgesics	1.00
4. Central Nervous System Agents: Sedative/Hypnotics	2.00
5. Central Nervous System Agents: Anticonvulsants	1.00
6. Central Nervous System Agents: Antidepressants	3.00
7. Central Nervous System Agents: CNS Stimulants	2.00
8. Cardiovascular/Renal Agents: Positive Inotropic Agents	2.00
9. Cardiovascular/Renal Agents: Antianginal agents	2.00
10. Cardiovascular/Renal Agents: Diuretics	2.00
11. Cardiovascular/Renal Agents: Antihypertensive agents	3.00
12. Antiinfective/Antiinflammatory Agents: Antibiotics	3.00
13. Antiinfective/Antiinflammatory Agents: Antivirals	1.00
14. Antiinfective/Antiinflammatory Agents: NSAIDS	2.00
15. Antiinfective/Antiinflammatory Agents: Corticosteroids	2.00

16. Gastrointestinal Agents: Acid-controlling agents	1.00
17. Gastrointestinal Agents: Antiemetic and antinausea agents	2.00
Total Hours	34.00

IV. METHODS OF INSTRUCTION

- A. Lecture
- B. Collaborative Group Work
- C. Class Activities
- D. Homework: Students are required to complete two hours of outside-of-class homework for each hour of lecture
- E. Discussion
- F. Reading Assignments

V. METHODS OF EVALUATION

- A. Exams/Tests
- B. Written Assignments
- C. Class Presentations
- D. In Class Assignments

VI. EXAMPLES OF ASSIGNMENTS

- A. Reading Assignments
 1. Read chapter 1, focusing on the nursing process and drug therapy. Be prepared to discuss in class.
 2. Read chapters 13 and 15, comparing and contrasting the prototype medications for sedative/hypnotic agents based on mode of action and potential side effects. Be prepared to discuss in class.
- B. Writing Assignments
 1. Develop a worksheet based on the nursing process, with emphasis on reviewing how to write a nursing diagnosis. Present this worksheet in class.
 2. Read a case study presentation based on opioid analgesics. Using APA format, answer the 5 critical thinking questions using supportive textbooks as references. Be prepared to discuss in class.
- C. Out-of-Class Assignments
 1. In small groups, answer a question based on a clinical scenario presented in class. Share the group answer with the rest of the class.
 2. In small groups, illustrate a concept map identifying a specific side effect associated with an anti-infective agent and the physical assessment data to monitor for the occurrence of that side effect. Be prepared to discuss in class.

VII. RECOMMENDED MATERIALS OF INSTRUCTION

Textbooks:

- A. Liulley, L., Rainforth Collins, S., Harrington, S., and Snyder, J.. Pharmacology and the Nursing Process. 6th Edition. St. Louis: Mosby, 2010.
- B. Deglin, J.H. & Vallerand, A.H. . Davis's Drug Guide for Nurses. 11th Edition. Philadelphia: F.A. Davis, 2010.