



## NSG 61 - Pharmacology

### Catalog Description

**Transfer Status:** CSU

**Prerequisite:** Admission to ADN Program

**Corequisite:** NSG 67, NSG 68, NSG 69

**Unit(s):** 2.00

**Lecture:** 34.00 Contact hours/68.00 Out of class hours/102.00 Total hours/2.00 Unit(s)

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**Course Description:** 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.

### Objectives

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

1. Identify the standards of professional practice, including legal, ethical and regulatory framework for administration of medications.
2. Describe therapeutic communication.
3. Perform assessments related to medication administration.
4. Apply the steps of the nursing process in delivery of medications.
5. Evaluate the client's values, customs, and cultural habits that affect medication compliance.
6. Propose patient education strategies related to medication therapy.
7. Explore cost efficient strategies in the delivery of nursing care related to medication therapy.

### Course Content

| Topic Titles / Suggested Time Topic                    |                |
|--------------------------------------------------------|----------------|
| <u>Lecture</u>                                         |                |
| <u>Topics</u>                                          | <u>Lec Hrs</u> |
| Central Nervous System Agents                          | 2.50           |
| Anti-Epileptic & Anti-Parkinson Drugs                  | 2.50           |
| Drugs Affecting the Autonomic Nervous System           | 2.50           |
| Coagulation Modifier and Diuretic Drugs                | 2.50           |
| Drugs Affecting the Cardiovascular System              | 5.50           |
| Drugs Affecting the Endocrine System                   | 3.50           |
| Men's and Women's Health Drugs                         | 2.50           |
| Drugs Affecting the Respiratory System                 | 2.50           |
| Anti-Infective and Anti-Inflammatory Drugs             | 2.50           |
| Immune and Chemotherapy Drugs                          | 2.50           |
| Drugs Affecting the Gastrointestinal Tract & Nutrition | 2.50           |
| Dermatologic, Ophthalmic, and Otic Drugs               | 2.50           |
| <b>Total Hours:</b>                                    | <b>34.00</b>   |

### Methods of Instruction

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

### Methods of Evaluation

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

## Examples of Assignments

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### Reading Assignments

1. Read the chapter in your textbook about pain management, opioid drugs, and drug tolerance. Answer the questions in back of the chapter and be prepared to discuss these answers in class.
2. Read the chapter in your textbook about adrenergic, adrenergic blocking, cholinergic and cholinergic blocking drugs. Be prepared to discuss in class.

### Writing Assignments

1. Read the chapter in your textbook on beta-blockers and then create a worksheet about beta-blockers including: mechanism of action, indications, contraindications, adverse effects, and managing an overdose.
2. Watch an assigned YouTube video on the Endocrine System and define the function of the anterior and posterior pituitary gland.

### Out-of-Class Assignments

1. Read the chapter in your textbook about respiratory medications. Complete the provided charts on anti-histamine, decongestants, and antitussive medications.
2. Watch the assigned YouTube video and draw a diagram that represents the medications in the video: include action and side effects of these medications.

### Recommended Materials of Instruction

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Lilley, L., Rainforth Collins, S., Harrington, S., and Snyder, J. (2017). *Pharmacology and the Nursing Process. St. Louis: Mosby, 8th.*  
Deglin, J., & Vallerand A. (2017). *Davis's Drug Guide for Nurses. Philadelphia: F.A. Davis, 15th.*

### Minimum Qualifications

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Nursing (Masters Required)

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**Created/Revised by:** Craig, Susan

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