

Palomar College
Course Outline of Record for
Degree Credit Course

Transfer course A.A. degree applicable course (check all that apply)

COURSE NUMBER AND TITLE: Nursing 121, Pharmacology for Nurses II

UNIT VALUE: 2

MINIMUM NUMBER OF SEMESTER HOURS: 32

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills

ENTRANCE REQUIREMENTS:

PREREQUISITE: None

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE: Basic concepts of pharmacology, pharmacokinetics, pharmacodynamics, drug interactions, and the nursing process related to the following drugs: those affecting the cardiovascular system; those that affect the renal system; those that are used for mental and emotional disorders; those that affect the central nervous system's control of muscles; those that are used to treat infections; and those that are used as chemotherapeutic agents.

SPECIFIC COURSE OBJECTIVES: Successful students will:

1. Describe concepts of pharmacology that guide drug use.
2. Compare and contrast the mechanisms of action for the major drug categories presented.
3. Analyze and apply patient care implications pertinent to the pharmacological aspects of specific drugs.
4. Identify physiologic rationale for drug therapy for the cardiovascular system, the renal system, mental and emotional disorders, the central nervous system's control of muscles, infections, and chemotherapeutic agents.
5. Apply the nursing process relating knowledge of medications to an overall plan of nursing care.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Introduction
 - A. Basic Principles of Drug Action
 - B. Application of the Nursing Process to Drug Therapy
 - C. Drug Administration and Calculations
- II. Drugs Affecting the Central Nervous System's Control of Muscles
 - A. Anticonvulsant Drugs
 - B. Drugs for Central Motor Control
- III. Drugs Used for Mental and Emotional Disorders
 - A. Sedatives, Hypnotics, and Antianxiety Agents
 - B. Antipsychotic Drugs
 - C. Antidepressant Drugs
 - D. Central Nervous System Stimulants
- IV. Drugs Affecting the Cardiovascular and Renal Systems
 - A. Antianginal Agents
 - B. Antihypertensive Drugs
 - C. Diuretics
 - D. Fluids and Electrolytes
 - E. Cardiac Glycosides
 - F. Antiarrhythmics
 - G. Coagulation Modifiers
 - H. Antilipemic Agents
- V. Drugs Used to Treat Infections
 - A. Penicillins and Related Drugs
 - B. Erythromycins and Penicillin Substitutes
 - C. Tetracyclines
 - D. Aminoglycosides
 - E. Sulfonamides
 - F. Drugs Used to Treat Tuberculosis
 - G. Antifungal Agents
 - H. Antiviral Drugs
 - I. Antiseptic and Disinfecting Agents
 - J. Protozoal Drugs
- VI. Drugs Used as Chemotherapeutic Agents

REQUIRED READING:

Lilley, Linda, Robert A. Aucker, and Joseph A. Albanese. Pharmacology and the Nursing Process. St. Louis: C. V. Mosby, 1996.

Janney, Caroline and Jane Flahive. Calculation of Drug Dosages. 5th edition. Penn Valley: T. J. Designs, 1996.

Silverman, Jay, Elaine Hughes, and Diana Wienbroer. Rules of Thumb. 3rd edition. New York: Mc Graw-Hill, 1996.

SUGGESTED READING:

"Nurse Pro-calc," an interactive video program that addresses how to do mathematical calculations. This is on the computers in the library's computer lab.

REQUIRED WRITING:

A four to six page, double spaced, typed paper will be written on a topic related to the course content. Topics must be approved by the instructor. The format must follow what is identified in Rules of Thumb.

Two drug calculation practice sessions will also be held during class time. The problems will address how to determine dosages for basic oral, intramuscular, and subcutaneous routes of administration.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

The outside assignments include reading the text, preparing for class, and writing the paper.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

This course may be offered as a distance education course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply. (See guidelines for preparation for definitions.)

- telecourse
- mediated instruction
- computer assisted instruction

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

The objectives will be tested through two tests and a cumulative final exam. A four to six page paper will be written.

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|------------|---|-----------|-----|
| Test 1 | = | 40 points | 25% |
| Test 2 | = | 40 points | 25% |
| Paper | = | 20 points | 12% |
| Final Exam | = | 60 points | 38% |

Grading Scale:

| | | |
|---|---|------|
| A | = | 90% |
| B | = | 80% |
| C | = | 70% |
| D | = | 60% |
| F | = | <60% |

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes ___ No Number of times course may be taken for credit: 1

If yes, identify specific provision of Title 5 Division 2 section(s) 55761-55763 and 58161 which qualifies course as repeatable:

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| SIGNATURES ON FILE |
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