

BERGEN COMMUNITY COLLEGE

DIVISION OF HEALTH PROFESSIONS

DEPARTMENT OF NURSING

NUR 182

LEVEL I

PHARMACOLOGY FOR NURSES

COURSE OUTLINE

1 CREDIT

LECTURE: 1 HOUR PER WEEK

**FOR USE DURING THE FALL 2010 and
SPRING 2011 SEMESTERS ONLY**

TABLE OF CONTENTS

<u>DOCUMENT</u>	<u>PAGES</u>
Course Description.....	4
Course Learning Outcomes.....	4
Course Evaluation.....	5
Required Texts.....	5
Course Outline.....	6-7

ALL POLICIES AND COURSE REQUIREMENTS ARE SUBJECT TO REVISION ON A SEMESTER BY SEMESTER BASIS. STUDENTS WILL BE NOTIFIED OF ANY REVISION(S) AT THE BEGINNING OF THE SEMESTER IN WHICH THE POLICY OR REQUIREMENTS IS/ARE TO BE IMPLEMENTED DURING THE FIRST MEETING OF THE APPROPRIATE NURSING CLASS.

NUR-182, Pharmacology for Nurses

COURSE DESCRIPTION

NUR-182, Pharmacology for Nurses is a Level I course which introduces the student to the drug classification system. Students will learn basic actions and side effects of drugs and drug regulations. Mathematical calculations necessary to the practice of nursing are taught, and students must achieve a score on a medication calculations test in order to pass this course.

1 lec. 1 credit

PREREQUISITE: Admission to the Department

C0-REQUISITES: NUR-181, NUR-183, BIO-109, PSY-101.

COURSE LEARNING OUTCOMES

1. Utilizes the nursing process in the administration of drugs and solutions for the improvement of the health of individuals.
2. Adapts medication administration according to the growth and developmental capacities of individuals.
3. Discusses actions, side effects and nursing implications of drugs and solutions when administering care to individuals.
4. Incorporates biological, psychological, sociological, cultural, spiritual, and economic factors related to the administration of drugs and solutions.
5. Accepts responsibility for maintaining current knowledge of drugs and solutions.
6. Complies with the legal and ethical regulations for medication administration.
7. Adapts to technological means for safe administration of drugs and solutions.
8. Uses critical thinking as the basis for safe administration of drugs and solutions.
9. Passes the Level I Pharmacological Math Computation Exam (PMCE) with a score of 80% or higher.
10. Teaches clients, groups, and families about medications.

COURSE EVALUATION

1. There will be 3 tests encompassing theory only which will equal 100% of the grade.
2. There will be a Pharmacological Math Computation Exam (PMCE). The passing score will be 80%. Students who fail to demonstrate proficiency on the first administered pharmacology test in the course will be permitted two opportunities to take a similar test as a re-take within the confines of this course. A student who does not demonstrate an acceptable level of proficiency (80%) on the computation re-take will receive an "F" for the course.
3. A passing course grade requires a numerical theory grade of 75% or greater.

A = 89.5% and above
B+ = 84.5 to 89.4%
B = 79.5% to 84.4%
C+ = 74.5% to 79.4%
F = 74.4% and below

REQUIRED TEXTS

Gray, Deborah. Calculate with Confidence. Elsevier, 2010

Key, Hayes, and McCuiston. Pharmacology: A Nursing Process Approach. Elsevier, 6th edition.
2009 ISBN: 978-1-4160-4663-9

COURSE OUTLINE

<u>Theoretical Content</u>	<u>Teaching/Learning Activities</u>
<p>Unit 1 Math and Dosage Calculations</p> <p>A. Systems of Measurement</p> <p>B. Methods of Calculation</p> <p>1. Oral dosages</p> <p>2. Injectable dosages</p> <p>3. IV fluids/administration</p> <p>4. Regular insulin/heparin</p> <p>5. Calculations by Kilograms</p> <p>6. Household measurement</p>	<p>Complete pharmacology math worksheets</p> <p>CAI: Giving Oral Medication Safely</p> <p>Medical Administration 1</p> <p>Medical Administration 2</p> <p>Eliminating Medication Errors - S354/B-307</p> <p>Safe Administration of Medications</p> <p>Gray, Chapter 3</p> <p>Gray, Chapter 6</p> <p>Gray, Chapter 7 – Household System only</p> <p>Gray, Chapter 8 & Chapter 9</p> <p>Gray, Chapters 10 – 16</p> <p>Gray, Chapter 17-19</p>
<p>Unit 2 Introduction to Nursing Pharmacology</p> <p>A. Introduction to Drugs</p> <p>B. Drugs & the Body (Pharmacologic Principles)</p> <p>C. Toxic Effects of Drugs</p> <p>D. Nursing Management (Nursing Process)</p> <p>E. Drug Therapy in the 21st Century</p> <p>F. Lifespan Considerations</p>	<p>Computer Assisted Instruction (CAI): Rooms B-306 & B-307, Library</p> <p>CAI: Basic Principles of Pharmacology</p> <p>Key, Chapters 1-3</p> <p>Key, Chapters 5-7</p> <p>Key, Chapter 9</p>
<p>Unit 3 Antiinfective Agents (Hazards)</p> <p>A. Antibiotics</p> <p>B. Antiviral and Antitubercular, Antifungal</p>	<p>Key, Chapters 28-33</p>
<p>Unit 4 Digestive System Agents (Food)</p> <p>A. Acid-controlling agents</p> <p>B. Antidiarrheals and laxatives</p> <p>C. Antiemetic and Antinausea Agents</p>	<p>Key, Chapters 46-47</p>

<u>Theoretical Content</u>	<u>Teaching/Learning Activities</u>
Unit 5 Respiratory System Agents (Air) A. Upper Respiratory Drugs B. Drugs Used to Treat Obstructive Pulmonary Disorders	Key, Chapters 39-40
Unit 6 Cardiovascular Agents (Water) A. Drugs for cardiac disorders 1. cardiotonic agents 2. antidysrhythmic agents 3. antianginal agents B. Antihypertensive agents & Diuretics C. Circulatory disorder agents 1. Drugs affecting blood coagulation 2. Lipid-lowering agents	Key, Chapters 41-45
Unit 7 Central Nervous System Agents (Hazards) A. Analgesic & anti-inflammatory agents B. Narcotics C. Anxiolytic & Hypnotic agents D. Antidepressants Agents E. Psychotherapeutic agents & CNS stimulants F. Antiepileptic Agents G. Antiparkinsonism Agents	Key, Chapters 19-22
Unit 8 Hormonal Agents (Hazards, Normalcy) A. Antidiabetic drugs	Key, Chapter 51
Unit 9 Ophthalmic and Otic Agents (Hazards)	Key, Chapter 48