

Imperial Valley College
Division of Health and Public Safety

VN 124 - Pharmacology II-F12

- I. **Course Description:**
This course focuses on those components of pharmacology related to safe nursing care. It includes information about the general classification of drugs and principles of therapy related to the effects, actions and therapeutic use of each drug. The nursing actions and rationale for nursing actions are covered. Clinical application is integrated into the clinical nursing courses.
- II. **Texts:**
- A. **Required**
1. Adams, M.P & Holland, N. Core Concepts in Pharmacology. 3rd ed., Prentice Hall
 2. Adams, M.P & Holland, N. Workbook for Core Concepts in Pharmacology., 3rded., Prentice Hall
- B. **Recommended**
1. Hogan, Pharmacology Reviews & Rationales, 2nd ed., Prentice-Hall
 2. Davis Drug Guide or other approved drug guide book
- III. **Prerequisites:**
VN 112 and VN 114 or permission of the instructor is necessary. This class is one of the two classes necessary for those students who wish to challenge the NCLEX-PN.
- IV. **Course Requirements:**
- A. **Hours**
- | Theory Lecture | <u>Units</u> | <u>Hours</u> |
|----------------|--------------|--------------|
| | 2 | 36 |
- B. **Grades**
Student progress in this course may be measured using exams, quizzes, pop-quizzes, homework assignments, drug cards, classroom presentation, or online assignments.
- The Nursing Program subscribes to the Imperial Valley College grading policy as found in the current catalog with the following addition:
Students must maintain a "C" grade, as determined on the scale below, in order to advance in the vocational nursing program. Grades are not rounded.
- A = 92% -100%
B = 83% - 91%
C = 75% - 82%
D = 68% - 74%
F = Below 80%
- C. **Attendance**
1. According to the Imperial Valley College Catalog: Regular attendance in all classes is expected of all students enrolled. Instructors are expected to take a student's record into account in computing grades. A student may be excluded from further attendance in a class during any semester

when absences after the close of registration have exceeded the number of class hours, which the class meets per week. Further, an instructor may drop any student judged to be a disturbing element in the class.

2. Students in the Imperial Valley College Nursing Program are expected to attend all classes. Absences will be limited to the equivalent of the number of hours the class meets in one week (2 hours).
3. A student who reaches the maximum allowable number of hours absent may file a petition to remain in the nursing program. The student will meet with the instructor to discuss the situation and will be considered for dismissal.
4. If remediation is considered, the student will be required to match missed hours, in excess of the maximum allowable, with assigned hours of study. These assignments will be based upon the classroom objectives. The instructor(s) will determine the appropriate type of remediation.
5. Students who are late to class three times in any nursing class will be considered absent for one day and subject to dismissal if any further tardiness or absences occur.
6. **There will be no makeups for tests missed due to attendance.**

V. Course Content:

Pharmacology II includes those aspects of pharmacology used by nurses in the daily care of patients. Nurses are called upon to perform many aspects of drug related activities. In order to successfully accomplish these responsibilities, the nurse must understand why a drug is being administered or being withheld. She/he must be capable of monitoring the beneficial effects of the medication as well as recognizing and taking appropriate actions to deal with adverse effects. This course provides the pharmacologic information needed by the nurse to carry out these diverse activities.

Clinical application of the pharmacologic principles learned in this class will be integrated into the clinical nursing courses and students will be required to investigate all medications prior to administration.

VI. Course Objectives:

The student will:

1. Discuss Federal and State laws that regulate pharmacologic agents as they apply to nursing activities.
2. Explain the nurse's legal responsibilities related to administering medications.
3. Describe the major classification of drugs as they relate to specific body systems.
4. Relate the major classification of drugs to the application of nursing care.
5. Contrast the similar properties of drugs within each classification.
6. Explain the actions, effects and therapeutic uses of each major classification of drugs.
7. Demonstrate understanding of cultural-psychosocial aspects of patient care related to patient teaching and compliance in administration of medications.

VII. SLOs:

1. Differentiate among the types of drug actions; side effects, adverse reactions, and therapeutic effects in simulated and/or clinical situations.

2. Identify actions and purpose of medications affecting the immune system and nursing actions needed when providing care for clients using these medications.

VIII. DSPS

Any student with a documented disability who may need educational accommodations should notify the instructor or the **Disabled Student Programs and Services (DSP & S)** office as soon as possible. DSP&S is located in Room 2117 in the Health Science Building. Their phone number is 760-355-6312.

VII. Content Modules:

Module A: Principles of Pharmacology

Section 1:

Introduction to Drug Therapy, Nursing Process and Drug Administration

Section 2:

Peripheral Autonomic Nervous Systems: Drugs Affecting Transmission and Function

Section 3:

CNS: Drugs Affecting Behavior, Emotional Disorders, Psychotic State, Pain Sensation, Muscle Control and Sleep

Section 4:

Cardiovascular System: Drugs Affecting Cardiac Function, Blood Pressure, Renal Function and Coagulation

Section 5:

Drugs Affecting the Endocrine and Reproductive Systems: Hormones and Related Compounds

Section 6:

Drugs Affecting the Respiratory System

Section 7:

Drugs affecting GI System

Section 8:

Invading Organisms: Agents that Kill Invaders

Section 9:

Neoplastic Cells: Drugs Affecting Cell Growth and Viability

Section 10:

Drugs affecting the Integumentary System, Skeletal System, Eyes, and Ears

Section 11:

Nutritional & Fluids