

# Virginia Western Community College

## NUR 136

### Principles of Pharmacology I

**Prerequisite(s):** BIO 141, BIO 142, BIO 205, NUR 135, HLT 105, SDV 100

**Corequisite(s):** NUR 115, NUR 226

#### **Course Description**

Focuses on principles of medication administration which include dosage calculations, major drug classifications, drug legislation, legal aspects of medication administration, drug action on specific body systems, and basic computer applications. Principles of medication administration are patient centered and evidence based. Lecture 3 hours per week for 10 weeks

**Semester Credits: 2**

**Lecture Hours: 2**

**Lab/Clinical/Internship Hours: 0**

#### **Required Materials**

##### **Required Texts and Other References**

Frandsen, GERALYN & PENNINGTON, SARAH SMITH. (2014). *Abrams' Clinical Drug Therapy* (10<sup>th</sup> edition.). Philadelphia, PA: Lippincott Williams & Wilkins. ISBN 978-1-60913-711-3

Frandsen, GERALYN. *PrepU for Abrams' clinical Drug Therapy*. ISBN: 9781451186833

##### **Course Objectives:**

*Students who successfully complete this course will be able to:*

- **Safety:** Discuss major safety risk concepts associated with pharmacology through pharmacodynamics and pharmacokinetics.
- **Patient-centered care:** Compare and contrast major drug groups and correlate the actions of the selected drug groups to ensure patient-centered care in pharmacology.
- **Critical Thinking:** Identify and discuss critical thinking and clinical judgment strategies in nursing care as it relates to responsibilities and priorities in drug therapy.
- **Teamwork:** Discuss the nurse's role in engaging all members of the interdisciplinary healthcare team in utilizing non-pharmacological and preventative treatments in conjunction with drug therapy.
- **Evidence based practices:** Identify and describe resources that may be used to gather the best current evidence practice in order to provide safe and effective nursing care in drug therapy.
- **Informatics:** Discuss challenges in current nursing practices of technological resources to support clinical decision-making related to pharmacologic planning and interventions.
- **Culture:** Discuss culture, ethnicity and other patient-related variables that may affect drug therapy.

## **Topical Description**

### **Unit I**

Hematopoietic Drugs  
Drugs for Immune System

### **Unit 2**

Drugs for Inflammation and Infection  
Dosage & Calculation Review: 100% Math Test

### **Unit 3**

Cardiovascular Drugs

### **Unit 4**

Respiratory Drugs

### **Unit 5**

Drugs for the Renal System  
Drugs for the Digestive Systems

### **Unit 6**

Endocrine Drugs

### **Unit 7**

Autonomic and CNS Drugs

## **Note to Instructors**