

# MED 170 : Principles of Pharmacology for Medical Assistants

**Credits** 5

**Quarter Offered** Summer

This course offers instruction in the principles of pharmacology. Students will use applied mathematics to prepare proper dosages of medication for administration and verify those doses/dosages prior to administration. Students will learn to update medication lists utilizing an educational electronic health record. Students will learn techniques to help them explain medication treatment plans to patients to ensure patient understanding and compliance. This class may include students from multiple sections.

**Prerequisites**

Medical Assisting Program Admittance

**Course Outcomes**

Competencies/Objectives/Outcomes/Methods of Assessment/Assignment:

Foundations for Clinical Practice

I. Anatomy, Physiology, and Pharmacology

I.C.10. Identify the classifications of medications including:

- a. indications for use
- b. desired effects
- c. side effects
- d. adverse reactions

II. Applied Mathematics

II.C.1. Define basic units of measurement:

- a. the metric system
- b. the household system

II.C.2. Identify abbreviations used in calculating medication dosages

II.C.3. Identify normal and abnormal results as reported in:

- a. graphs
- b. tables

II.P.1. Calculate proper dosages of medication for administration

II.P.4. Apply mathematical computations to solve equations

II.P.5. Convert among measurement systems