

Prepared by the Department of Health Sciences
Date of Departmental Approval: March 13, 2015
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Effective: Fall 2015

1. **Course Number:** HEA202
Course Title: Essentials of Pharmacology for Allied Health Professionals
2. **Description:** This course provides instruction in concepts and application of pharmacological principles. Foci of the course will be on drug classifications, principles and procedures of medication administration, mathematical systems and conversions, calculation of drug problems and medical and legal responsibilities of the allied health professional.
3. **Student Learning Outcomes:** Upon successful completion of this course, students are able to do the following.
 - Apply the basic principles of pharmacology.
 - Apply the principles of administration of oral, transdermal, and parenteral medications.
 - Use technology correctly to obtain accurate pharmacology information via the Internet.
 - Explain the legislation and ethics of pharmacology as it applies to patient care.
 - Interpret medication orders correctly.
 - Interpret drug labels accurately
 - Accurately calculate doses for common medications.
 - List most common medications for each body system.
 - Explain safety and quality assurance related to commonly used medications.
 - Use the medical terminology related to pharmacology and the administration of medication.
4. **Credits:** 2 credits
5. **Satisfies General Education Requirement:** No
6. **Prerequisite:** BIO105 (Survey of Human Anatomy & Physiology) and BIT103 (Medical Terminology)
7. **Semester(s) Offered:** Spring
8. **Suggested General Guidelines for Evaluation:**
 - Projects
 - Exams
 - Quizzes
 - Creation of Charts and Poster Projects
 - Demonstrations
9. **General Topical Outline:**
 - I. Introduction
 - II. Systems of measurement
 - III. Interpretation
 - IV. Methods of medication/dosage calculations – introduction to Dimensional Analysis
 - V. Common medications used in the ambulatory setting
 - VI. Principles of Pharmacology
 - VII. Principles of administration of non-parental and parental medications for the ambulatory setting.
 - VIII. Principles of intravenous therapy (No administration)
 - IX. Legal and Ethical Considerations for Medication Administration

CAAHEP Educational Competencies:

- I.P.7
- I.P.8
- I.P.9
- II.P.1
- II.A.1