



School of Nursing and Health Professions

Syllabus



Term: **Credit:** 3 **Office Hours:**

Course Code: MDA 224 **Office Location:**

Title of Course: PHARMACOLOGY **Email:**

Days & Times: **Phone:**

Location: **Prerequisites:** MDA 106, MAT 102

Instructor:

COURSE DESCRIPTION: Students study the different drug categories and the methods of administration, including oral and by injection. Includes the proper use of the Physician's Desk Reference (PDR) and how to accurately read, prepare, and "call in" written prescriptions.

COURSE OBJECTIVES:

At the termination of this course, the student will be able to:

1. Identify Scope of Science of Pharmacology. Identify significance of each schedule as defined in the Controlled Substances; Act of 1970. Discuss legal requirements for the inventory and recordkeeping of controlled substances. Compare significance of chemical, generic, and brand name. Identify drug sources, parts of written prescription order, and common abbreviations. Compare actions of agonists, partial agonists, and antagonists. Differentiate among side effect, toxic effect, allergic reaction, idiosyncratic reaction. Describe role of age, sex, body weight, metabolic rate, disease states in determining response to a drug.
2. Identify Methods of Drug Administration. Define properties of dosage forms. List five rights of drug administration. Discuss routes of administration: Enteral, parenteral, percutaneous, vaginal, and rectal. Describe procedures involved in administration of drugs.
3. Identify and analyze the sections of a prescription.
4. Understand the difference and make conversions between different systems of measurements
5. Demonstrate the ability to Calculate and verify an accurate dose of a medication using a

standard formula.

6. Apply professional skills to locate injection sites and to administer different types of medication
7. Demonstrate the right responses in allergic reactions. Identify drug names, pharmacological abbreviations, and describe the indications, contraindications for 50 most commonly prescribed drugs in the market

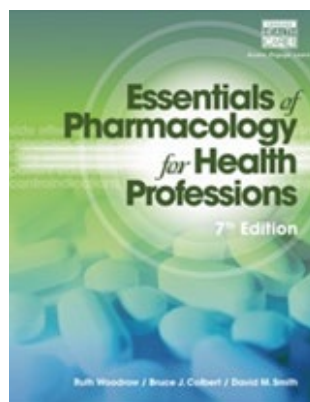
Lab/Clinical: none

TEXTBOOK REQUIRED:

REQUIRED TEXT: Ruth Woodrow, Bruce J. Colbert, David M. Smith. Essentials of Pharmacology for Health Professions, Seventh Edition. Cengage Learning

ISBN-13: 978-1-285-07788-8

ISBN-10: 1-285-07788-1



EVALUATION METHODS:

Assignments	15%
Discussion Questions	15%
Quizzes	20%
Exams (3)	50%

WEEKLY OUTLINE:

Week	Topic	Learning Outcomes (L.O)
1	Course Orientation, Syllabus & Requirements Consumer safety and drug Regulation	SLO 1
2	Drug Names and References	SLO 2
3	Medication Preparation and Supplies	SLO 2
4	Abbreviations and Systems of Measurements	SLO 3, 4
5 & 6	Safe Dosage Calculation	SLO 4, 5, 6

	Calculate and verify an accurate dose of a medication using a Standard formula Exam #1	
7	Analgesic, Sedatives and Hypnotics	SLO 7
8	Musculoskeletal and Anti-inflammatory Drugs	SLO 7
9	Exam #2 Urinary System Drugs	SLO 7
10	Gastrointestinal Drugs	SLO 7
11	Endocrine System Drugs	SLO 7
12	Cardiovascular System Drugs	SLO 7
13	Infectious and Antimicrobial Agents	SLO 7
14	Respiratory System Drugs and Antihistamines	SLO 7
15	Final Exam	

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<https://www.hccc.edu/administration/academic-affairs/syllabus-addendum.html>