



School of Nursing and Health Professions Syllabus



HUDSON is HOME!

Term: Credit: 3CR

Course Code: MDA 224

Email:

Title of Course: Pharmacology

Phone:

Days & Times:

Prerequisites/ Corequisites: MDA106,
MAT102, & BIO211

Location:

Instructor:

Office Hours:

Office Location:

COURSE DESCRIPTION:

This course is an introduction to drugs and drug therapy, including sources of drugs, dosage forms, drug legislation, principles of drug action and pharmacokinetic factors in drug therapy, drug interactions, and incompatibilities. Major drug classifications are identified and studied according to physiologic action and/or body system affected. The course is offered only once during the academic year.

STUDENT LEARNING OUTCOMES:

Upon the successful completion of this course, students 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,

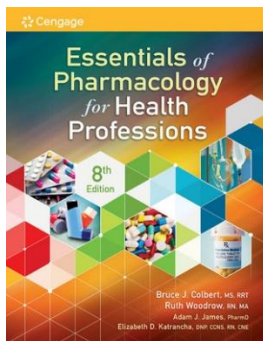
percutaneous, vaginal, and rectal. Describe procedures involved in administration of drugs.

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

TEXTBOOK REQUIRED:



Essentials of Pharmacology for Health Professions, 8th Edition
Bruce Colbert; Ruth Woodrow ISBN-10: 1-337-39589-7 ISBN-13: 978-1-337-39589-2

EVALUATION METHODS:

Activities	Points
Discussions	235
Assignments	455
Quizzes	210
Total	1000

WEEKLY OUTLINE:

Unit	Topic	Learning Outcomes (L.O)
1	Consumer Safety, Drug Regulations, and Sources of Drugs	SLO 1
2	Principles of Drug Administration, System of Measurement, and Safe Dosage Calculations	SLO 2
3	Principles of Drug Administration by the Gastrointestinal and Parenteral Route	SLO 3
4	Analgesics, Anti-inflammatory Sedatives and Hypnotics	SLO 4
5	Urinary and Gastrointestinal Drugs	SLO 5
6	Anti-infective and Cardiovascular Drug	SLO 6
7	Endocrine System and Respiratory System Drugs	SLO 7

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