
SECTION HEADING

MEDA 2135: Pharmacology

Description

Pharmacology introduces pharmacological concepts and drug classifications as they apply to the diseases and disorders they prevent and/or treat. The class also explores the effects of drugs on the different body systems.

Credits

3

Prerequisite

HC 1151 or both BIOL 2201 and BIOL 2202

Corequisite

None

Topics to be Covered

1. Drug sources and forms, the medication prescription/order, schedules of controlled substances. Indications and desired actions, routes, dosages, side effects and interactions of drugs from the drug classifications of antibiotics, antifungal agents, antivirals, immunizing agents, antineoplastic agents, vitamins/minerals/herbs, psychotropic drugs, and drugs used for disorders of the following body systems: musculoskeletal system, gastrointestinal system, cardiovascular system, respiratory system, urinary system, endocrine system, nervous system, and reproductive system
2. Patient and family education, special considerations for pediatric and elderly populations, and substance abuse.

Learning Outcomes

1. Apply basic concepts of pharmacology, including but not limited to terminology, drug sources, and drug forms.
2. Identify the parts of a medication order or prescription.
3. Discuss legal aspects of ordering and dispensing medications, including the scheduling and regulation of controlled substances.
4. Utilize drug reference books to derive accurate information about drugs.
5. Categorize drugs into therapeutic classifications.
6. Discuss indications and desired actions, routes, dosages and side effects of drugs from the classifications studied.
7. Explore interactions drugs may have with other drugs, foods and other substances.
8. Identify special considerations that apply to pharmacology for pediatric and elderly populations.
9. Apply knowledge of drugs to determine appropriate patient/family education.

Credit Details

Lecture: 3

Lab: 0

OJT: 0

MnTC Goal Area(s): None