



Course Description

PAS1823 | Pharmacology 1 | 4.00 credits

This is the first course in the sequence PAS1823, 1830. It is the study of the preparation, uses, and action of drugs.

Prerequisites: HSA2532, PAS1800C, PAS1803, PAS1831, PAS2936

Course Competencies:

Competency 1: The student will apply pharmacodynamics and pharmacokinetic principles that describe drug actions in humans by:

1. Understanding the definition of pharmacodynamics
2. Understanding the definition of pharmacokinetics
3. Applying scientific concepts to learn the mechanism of action for each drug class presented

Competency 2: The student will Compare and contrast the specific pharmacology of the major classes of drugs and identify important distinctions among members of each drug class about the organ systems they affect and the diseases for which they are used therapeutically by:

1. Listing the various drug classes and disease processes they treat
2. Understanding the mechanism by which drugs work and apply to clinical scenarios

Competency 3: The student will recognize the risk v. benefit of therapeutic interventions in clinical practice by:

1. Recognizing the role of molecular genetics and pharmacogenomic principles in pharmacotherapeutics and drug development
2. Using the medical literature to evaluate drugs in the context of evidence based medical practice

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information