

The *Pharmacology CPU* introduces students to both the therapeutic and research and design aspects of pharmacology. Students discover the nursing process of drug therapy and explore proper drug administration, common adverse effects, and various types of drugs. Students also explore the drug pipeline and examine how a new drug travels from laboratory testing to FDA approval.

Students also research the history of pharmacology and drug regulations and how historical developments affect modern pharmacology. Students examine how incidents such as the Elixir Sulfanilamide and Thalidomide tragedies influenced drug laws and the FDA.

Areas Covered

- ◆ The processes of drug development and FDA approval
- ◆ Using the PDR to research both general drug classes and specific drugs
- ◆ New and emerging technologies in pharmacology
- ◆ Novel methods of administration and their benefits
- ◆ Calculating dosages and other formulas common in pharmacology
- ◆ Understanding aspects of the nursing process as it relates to pharmacology, including:
 - Contraindications
 - Drug and food interactions
 - Dietary supplements and drug therapy
 - Proper patient education
- ◆ Skills and knowledge to aid students in various HOSA competitions



Career Pathway Unit Includes:

Pharmacology CD with a Digital Instructor's Overview Booklet, Ampicillin, Bacteria Voucher – *Bacillus Cereus*, Bacteria Voucher – *E. Coli*, Butane Burner, Chloramphenicol, Clinical Pharmacology Textbook, Forceps, Gentamicin, Incubators, Skills Cart™, Medical Dictionary, Mortar and Pestle, Nutrient Agar, PDR Nurse's Drug Handbook, Penicillin, Streptomycin, Synthesis of Aspirin Kit, Tetracycline, Worksheets