Course Description

Presents selection criteria for the use of and detailed information on pharmacologic agents used in pulmonary care. Lecture 1 hour per week.

General Course Purpose

This course prepares the respiratory therapy student with the pharmacology knowledge needed for entry into the first clinical course taught in the 2nd semester of the program.

Course Prerequisites/Corequisites

Prerequisite: BIO 141/142 or NAS 161/162 and HLT 141 or permission of the Assistant Dean of Respiratory Therapy. The student must possess an understanding of the central, peripheral nervous system physiology, and basic math skills to include cross multiplication, ratio, proportions and percents.

Course Objectives

Upon completion of this course, the student will be able to:

- Describe sources of drugs and different forms in which drugs are dispensed
- Discuss local and systemic effects of drugs and factors influencing the actions of drugs
- Safely and accurately administer aerosolized bronchodilators, mucolytics, surface active agents, inhaled corticosteroids, and mediator antagonists to include administration via svn, mdi and dpi.
- Identify specific drugs and their use in treating respiratory disease
- Present on a related objective to the class
- Write a paper with citations, using Word or similar word processing software

Major Topics To Be Included

- Principles of drug action
- Physiology of the central and peripheral nervous systems as it relates to the principles of drug action
- Dosage calculations
- Sympathomimetic and parasympatholytic bronchodilators
- Mucolytic and surface active agents
- Inhaled corticosteroid and mediator antagonists