

RCP 113
RCP PHARMACOLOGY

COURSE DESCRIPTION:

Prerequisites: Enrollment in the Respiratory Care program

Corequisites: RCP 110, RCP 114, and RCP 132

This course covers the drugs used in the treatment of cardiopulmonary diseases. Emphasis is placed on the uses, actions, indications, administration, and hazards of pharmacological agents. Upon completion, students should be able to demonstrate competence through written evaluations. Course Hours Per Week: Class, 2. Lab, 0. Semester Hours Credit: 2.

LEARNING OUTCOMES:

At the completion of the course requirements, the student should understand:

- I. Basic concepts and principles in pharmacology
- II. Drugs used to treat the respiratory system
- III. Critical care and cardiovascular drug classes

OUTLINE OF INSTRUCTION:

- I. Basic concepts and principles in pharmacology
 - a. Introduction to respiratory care pharmacology
 - b. Principles of drug action
 - c. Administration of aerosolized agents
 - d. Calculating drug doses
 - e. Central and peripheral nervous systems
- II. Drugs used to treat the respiratory system
 - a. Adrenergic (sympathomimetic) bronchodilators
 - b. Anticholinergic (parasympatholytic) bronchodilators
 - c. Xanthines
 - d. Mucus-controlling drug therapy
 - e. Corticosteroids in respiratory care
 - f. Nonsteroidal antiasthma agents
 - g. Aerosolized antiinfective agents
 - h. Antimicrobial agents
 - i. Cold and cough agents
 - j. Selected agents of pulmonary value

- III. Critical care and cardiovascular drug classes
 - a. Skeletal muscle relaxants (neuromuscular blocking agents)
 - b. Vasopressors, inotropes and antiarrhythmic agents
 - c. Drugs affecting circulation
 - i. Antihypertensive
 - ii. Antianginals
 - iii. Antithrombotics
 - d. Diuretic agents
 - e. Drugs affecting the central nervous system

REQUIRED TEXTBOOKS AND MATERIALS:

Textbook to be selected by instructor.

STATEMENT FOR STUDENTS WITH DISABILITIES:

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 919-536-7208 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 10-209.