Master Syllabus

RET 1124 - Cardiopulmonary Pharmacology

Division: Health Sciences

Department: Respiratory Care

Credit Hour Total: 2.0   **Lecture Hrs:** 2.0

Prerequisite(s): CHE 1111

Other Prerequisite(s): AND Restricted to Majors

Date Revised: October 2012

Course Description:

Actions, effects, dosages and indications for drug classes commonly used to treat pulmonary and cardiovascular diseases.

General Education Outcomes:

◻ Critical Thinking/Problem Solving Competency

Course Outcomes:

Autonomic nervous system agents
Identify and describe the principles of pharmacokinetics and dynamics including the function of the autonomic nervous system and the mechanism of action for adrenergic and cholinergic drugs.

Assessment Method: Locally developed exams
Performance Criteria: 75% score or higher

Respiratory drugs and dosage calculations
Identify indications, contraindications and effects for various respiratory drugs and calculate appropriate dosages.

Assessment Method: Locally developed exams
Performance Criteria: 75% score or higher

Cardiovascular drugs
Discuss the actions and effects of various cardiovascular agents.

Assessment Method: Locally developed exams
Performance Criteria: 75% score or higher

Miscellaneous drugs used in critical care
Discuss the actions and effects of anti-inflammatory, antimicrobial, analgesic, sedatives, anesthesia and neuromuscular blockade agents.

Assessment Method: Locally developed exams
Performance Criteria: 75% score or higher

Outline:

Pharmacokinetics and Dynamics with Dosage Calculations
Autonomic Nervous System with Cholinergic/Anticholinergic and Adrenergic/Antiadrenergic Categories
Beta Adrenergic Bronchodilators and Xanthines
Miscellaneous Agents including Smoking Cessation Agents, Mucolytics, Surfactant, and Agents used to Treat Asthma, Pulmonary Disease and Viral/Protozoal Infections
Cardiovascular Pharmacology
Anti-inflammatory, Antimicrobial and Analgesic Agents including Local and General Anesthesia Agents
Neuromuscular Blockade