Course Outcome Summary
Required Program Core Course
RTH 116 – Cardiopulmonary Pathophysiology

Course Information
Division: Health Sciences
Contact Hours: 4
Theory: 60
Total Credits: 4

Prerequisites
- RTH 100 – Respiratory Care Techniques I
- RTH 102A – Pharmacology for Respiratory Therapists I
- RTH 104 – Cardiopulmonary Assessment
- BIO 258 – Anatomy & Physiology II

Co-requisite
- RTH 102B – Pharmacology for Respiratory Therapists II
- RTH 110 – Respiratory Care Techniques II
- RTH 111 – Respiratory Clinical Practice I

Course Description
This course gives the student an introduction to common cardiopulmonary diseases and conditions encountered by respiratory therapists. Topics include lung defense mechanisms, cardiopulmonary manifestation of disease, obstructive and restrictive lung diseases, review of microorganisms causing pulmonary infections, and pulmonary diseases/conditions encountered in the critically ill patient population.

Program Outcomes Addressed by this Course:
Upon successful completion of this course, students should be able to meet the program outcomes listed below:

A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

Course Outcomes
In order to evidence success in this course, the students will be able to:

1. List the 3 major anatomically based categories of pulmonary diseases.
   *Applies To Program Outcome*
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

2. Compare and contrast the 3 categories of pulmonary diseases in terms of distinguishing features, identifying diagnostic tests and results.
   *Applies To Program Outcome*
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

3. List common examples of pulmonary diseases in each of the pulmonary disease subcategories.
   *Applies To Program Outcome*
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A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

4. Categorize a pulmonary disease as obstructive, restrictive, or diffusion defect when given a list of the disease's pathophysiologic features.
   Applies To Program Outcome
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

5. Create a flow diagram of pathophysiologic consequences for a disease when given a list of the disease's pathophysiologic features.
   Applies To Program Outcome
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

6. Describe the signs, symptoms, and treatment of common cardiopulmonary diseases.
   Applies To Program Outcome
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

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By: IA; RL