RTH 104 – Cardiopulmonary Assessment

Course Information
Division: Health Sciences  
Contact Hours: 3  
Theory: 45  
Total Credits: 3  

Prerequisites: Admission into the Respiratory Therapy program.  
Co-requisites: RTH 100 – Respiratory Care Techniques I  
BIO 158 – Anatomy & Physiology II

Course Description
This course is an introduction to basic physical and laboratory assessments of cardiopulmonary patients. Topics include basic pulmonary function, medical lab values, microbiology, blood gas physiology and analysis, chest imaging, bronchoscopy, electrocardiograms, and bedside cardiopulmonary patient assessment.

This course is a required core course for students pursuing an Associate of Applied Science - Respiratory Therapy

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. Discuss common pulmonary function and laboratory diagnostic procedures as they relate to a patient's clinical assessment.  
   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. Given pulmonary function results, determine if a patient's values are obstructive, restrictive, or mixed.  
   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. Cite normal values for and interpret the results of basic pulmonary function tests, hematology, and blood chemistry tests.  
   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.
RTH 104 – Cardiopulmonary Assessment

Course Outcome Summary

Required Program Core Course

4. Describe results of microbiology studies for common pulmonary infections.
   
   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. Recognize normal and abnormal electrocardiograms and chest x-rays.
   
   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. Site the uses of bronchoscopy and describe a respiratory therapist role in this procedure.
   
   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.

7. Discuss basic blood gas physiology.
   
   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.

8. Cite normal and abnormal values for and interpret an arterial blood gas in terms of oxygenation, ventilation, and acid-base status.
   
   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.

9. List and discuss the four major components of a respiratory physical assessment.
   
   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.

10. State normal and abnormal vital sign values and discuss common causes of abnormality.
    
    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.

11. Describe the requirements for successful completion of the MCCC Respiratory Therapy program’s Adult Basic Care Patient Assessment form.
    
    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.

Date Updated: 1/29/2015
By: BEB, NAP