Course Information
Division: Health Sciences
Contact Hours: 9.0
Theory: 80
Lab Hours: 48
Off-Campus Clinical Hours: 12
Total Credits: 6.5

Prerequisites:
Acceptance into the Respiratory Therapy program.

Co-requisites:
RTH 104 – Cardiopulmonary Assessment
BIO 158 – Anatomy & Physiology II

Course Description
This classroom and laboratory course is an introduction to the duties and responsibilities of registered respiratory therapists. Topics covered include a review of physical science, cardiopulmonary anatomy and physiology, cardiopulmonary resuscitation, basic patient assessment skills, medical gas and aerosol administration, equipment processing, employee/patient safety, pulmonary medications, microbiology concepts, and an orientation to clinical sites.

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.

B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

C. Exhibit the personal behaviors consistent with professional standards and employer expectations of a competent Registered Respiratory Therapist.

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

1. Define and use common medical terminology and abbreviations as assigned.
   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. Identify the basic anatomical structures of the cardiopulmonary system.
   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.
Course Outcome Summary

Required Program Core Course

RTH 100 – Respiratory Care Techniques I

3. Discuss the basic physiological processes that are necessary for successful internal and external respiration.
   
   **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.

4. Discuss the physical laws concerning states of matter, fluids, temperature, pressure, volume, and humidity and how these laws relate to respiratory therapy equipment and patient application.
   
   **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. Discuss the principles of operation including indications, contraindications, safety features, and hazards for the following: oxygen systems, cylinders, regulators, flow meters, nebulizers, humidifiers, gas and aerosol administration devices, oxygen analyzers, blenders, and cardiopulmonary diagnostic equipment.
   
   **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. Discuss and demonstrate the proper procedure for disinfecting and/or sterilizing various respiratory therapy equipment, and various health and safety techniques utilized to protect the hospital employee.
   
   **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. Identify basic microbiology classifications, morphology, and characteristics of commonly encountered organisms causing human morbidity and mortality in the cardiopulmonary patients.
   
   **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. Discuss the indications, contraindications, side effects, and dosages of major bronchopulmonary drugs administered by competent registered respiratory therapists.
   
   **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. Successfully complete the basic life support procedures for cardiopulmonary resuscitation as outlined by the American Heart Association for health care providers.
   
   **Applies To Program Outcome**
   
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.
Course Outcome Summary

Required Program Core Course

RTH 100 – Respiratory Care Techniques I

10. Demonstrate the proper selection, use and/or handling the respiratory therapy equipment in #5 above.
   Applies To Program Outcome
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

11. Demonstrate appropriate procedures for the following: hand washing, use of a stethoscope, pulse, blood pressure, respiratory rate, pulse oximetry, hospital isolation, preparing bronchopulmonary medications, 6-lead ECG, and bedside diagnostic.
   Applies To Program Outcome
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

12. Operate MCCC RCTC computers to use the assigned respiratory therapy computer assisted instruction and computer based testing programs.
   Applies To Program Outcome
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

   Applies To Program Outcome
   C. Exhibit the personal behaviors consistent with professional standards and employer expectations of a competent Registered Respiratory Therapist.

Date Updated: 1/28/2015
By: BEB, NAP