



Course Outcome Summary

Required Program Core Course

RTH 100 – Respiratory Care Techniques I

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 102A – Pharmacology for Respiratory Therapists
RTH 104 – Cardiopulmonary Assessment
BIO 258 – 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, 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:

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

- Define and use common medical terminology and abbreviations.
Applies To Program Outcome
 - 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.
- Identify basic anatomical structures of the cardiopulmonary system and relate their functionality to external and internal respiration.
Applies To Program Outcome
 - 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. Interpret arterial blood gas results including acid-base, ventilation, and oxygenation status, describe how the body regulates and compensates for these values, and solve for related equations.
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. State the principles and laws describing properties of matter (including but not limited to: gas, fluids, pressure, volume, humidity, vapors, resistance, and flow), solve for associated equations, and relate these principles and laws 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. Recognize the principles of operation, including indications, contraindications, safety features, and hazards of the most basic respiratory equipment (including but not limited to: stethoscopes, cylinders, regulators, flow meters, nebulizers, humidifiers, gas analyzers, blenders, bedside diagnostic equipment, and gas and aerosol administration devices), and demonstrate the proper selection, use, and/or handling of this equipment.
Applies To Program Outcomes
 - 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.
6. Identify basic microbiology classifications, morphology, and characteristics of commonly encountered organisms causing human morbidity/mortality in cardiopulmonary patients, differentiate associated testing and sterilization techniques, and demonstrate proper infection control.
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.
 - B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.
7. Identify indications, contraindications, side effects, dosage amounts/types, and modes of actions of commonly administered bronchopulmonary medications.
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. Demonstrate acceptable fluency in professional attitudes, ethics, and patient rights.
Applies To Program Outcome
 - C. Exhibit the personal behaviors consistent with professional standards and employer expectations of a competent Registered Respiratory Therapist.