



# Course Outcome Summary

## Required Program Core Course

### RTH 226 – Respiratory Care Techniques IV

#### Course Information

<b>Division</b>	<b>Health Sciences</b>
<b>Contact Hours</b>	<b>3</b>
<b>Theory</b>	<b>30</b>
<b>Lab</b>	<b>15</b>
<b>Total Credits</b>	<b>2</b>

<b>Prerequisites</b>	RTH 211 – Respiratory Care Clinical Practice III RTH 212 – Advanced Cardiopulmonary Anatomy & Physiology RTH 214 – Adult Critical Care Management RTH 216 – Neonatal/Pediatric Critical Care
----------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>Co-requisite</b>	RTH 221 – Respiratory Care Clinical Practice IV RTH 222 – Seminar
---------------------	----------------------------------------------------------------------

#### Course Description:

This course covers a variety of advanced outpatient and inpatient diagnostic and clinical practice guideline topics as a companion course to RTH 221, including pulmonary function, exercise, and sleep-disordered breathing testing protocols, asthma and COPD management clinical practice guidelines, organ and tissue donor management protocols, mass casualty emergency preparedness procedures, and smoking cessation counseling training.

**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.

#### Course Outcomes:

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

1. Identify critical elements of the Respiratory Care scope of practice, and describe the specific requirements and application process needed to obtain licensure as a Respiratory Therapist in Michigan.  
*Applies to Program Outcome*
  - C. Upon completion of the program, the student will have exhibited the personal behaviors consistent with professional standards and employer expectations of a Registered Respiratory Therapist.



## RTH 226 – Respiratory Care Techniques IV

2. Interpret the clinical indications, equipment, testing protocols, results interpretation, and quality control processes for all components of a complete pulmonary function test; bronchoprovocation challenge; exercise testing, including 6-minute walk; exhaled nitric oxide testing; and polysomnography.  
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.
3. Compare and contrast the classifications of asthma and COPD severity and control based on functional impairment and risk of exacerbation, and discuss establishing control of symptoms by severity-based therapies and the use of Outpatient Action Plans.  
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. Identify the role of Gift of Life Michigan in tissue and organ donation, discuss cardiac death vs. brain death, and describe and discuss the specific roles of the Respiratory Therapist in the perioperative management of the transplant donor patient, performing Apnea Tests, and implementing transplant donor ventilator management protocols.  
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. Examine the epidemiology of tobacco use, the pathophysiology of nicotine addiction, and the use of behavioral modification and pharmacological therapy techniques by the Respiratory Therapist to aid in tobacco cessation counseling.  
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. Identify the effects of mass casualty disasters, pandemics, and terrorist attacks on community infrastructure, the role of Respiratory Therapists in disaster response and emergency management, and the various levels of equipment and support that Respiratory Therapists will utilize in responding to mass casualty incidents.  
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: 11.4.19  
By: IA, JD