



# Course Outcome Summary

## Required Program Core Course

### RTH 120 – Respiratory Care Techniques III

#### Course Information

Division	Health Sciences
Contact Hours	6
Theory	55
Lab Hours	36
Total Credits	4

#### Prerequisites

RTH 102B – Pharmacology for Respiratory Therapists II  
RTH 110 – Respiratory Care Techniques II  
RTH 111 – Respiratory Care Clinical Practice I  
RTH 116 – Cardiopulmonary Pathophysiology

#### Co-requisite

RTH 121 – Respiratory Care Clinical Practice II

#### Course Description

Mechanical ventilation topics are continued in this classroom and laboratory course. Topics include various brands of ventilators and their modes, cycling mechanisms, alarms and features. In addition, adjustments needed for adult patients with oxygenation, ventilation and acid-base pulmonary management challenges will be presented.

**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. Define terms and acronyms associated with mechanical ventilation.  
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. List indications, contraindications, hazards, and physiologic effects of mechanical ventilation.  
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 120 – Respiratory Care Techniques III

3. Compare, contrast, and differentiate modes of mechanical ventilation by description, ventilator scalars, relations between pressure, flow, time and volume, and intended use.  
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. Initiate appropriate mechanical ventilator settings and adjunctive therapies, order modifications based on patient presentation, and discontinue as applicable.  
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.
5. Calculate/analyze mechanical ventilation measurements and waveforms/graphics/loops to identify normal/abnormal patient conditions.  
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.
6. Assemble, troubleshoot, and perform simulated patient-ventilator systems checks on a variety of modern ventilators.  
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.

Date Updated: 2/21/2022  
By: H. Stripling, I Ahmed