

**J. Sargeant Reynolds Community College  
Course Content Summary**

**Course Prefix and Number: RTH 132**

**Credits: 4**

**Course Title:** Respiratory Care Theory and Procedures II

**Course Description (including lecture hours, lab hours, total contacts)**

Presents theory of equipment and procedures and related concepts used for patients requiring general acute and critical cardiopulmonary care. Prerequisite: Completion of the Pre-Nursing and Allied Health (Pre-Respiratory Therapy) Career Studies Certificate and RTH 131. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

**General Course Purpose**

This course teaches students the initiation, modification, and discontinuance of mechanical ventilation for patients requiring acute and critical cardiopulmonary care.

**Course Prerequisites/Corequisites** (*Entry-level competencies **required** for enrollment*)

Prerequisite: Completion of the Pre-Nursing and Allied Health (Pre-Respiratory Therapy) Career Studies Certificate and RTH 131.

**Course Objectives** (Each item should complete the following sentence.)

Upon completing the course, the student will be able to:

- a. To be able to identify mechanical ventilator candidates
- b. To be able to determine the most appropriate positive pressure ventilators needed for specific patients
- c. To be able to determine initial ventilator settings
- d. To be able to correctly modify the ventilator when change is indicated
- e. To be able to identify the need for care and make modifications as necessary for mechanically ventilated patients
- f. To be able to identify complications due to mechanical ventilation
- g. To be able to determine what monitoring techniques would be well suited
- h. To be able to identify the readiness for weaning
- i. To be able to demonstrate post ventilator care
- j. To be able to evaluate the need for return to the ventilator

**Major Topics to be Included**

- a. Physiologic Effects of Positive Pressure Ventilation
- b. Indications for Mechanical Ventilation
- c. Ventilator Commitment
- d. Determination of Settings on the Mechanical Ventilator
- e. Monitoring the Patient/mechanical Ventilator System
- f. Ventilatory maintenance
- g. Ventilator Discontinuance
- h. Physiologic Effects of Positive End-Expiratory Pressure
- i. Indications for Positive End-Expiratory Pressure Therapy
- j. Physiologic Positive End-Expiratory Pressure

- k. Prophylactic Positive End-Expiratory Pressure
- l. Inadvertent Positive End-Expiratory Pressure
- m. Auto or Intrinsic Positive End-Expiratory Pressure
- n. Clinical Goals of Positive End-Expiratory Pressure
- o. Initiations for Positive End-Expiratory Pressure Therapy
- p. Monitoring Positive End-Expiratory Pressure Therapy
- q. Discontinuance of Positive End-Expiratory Pressure Therapy
- r. Technical Application of Positive End-Expiratory Pressure

**Effective Date of Course Content Summary (Month, Date Year):** November 13, 2008