

**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:

Presents theory of equipment and procedures and related concepts used for patients requiring general acute and critical cardiopulmonary care. Prerequisites: Successful completion of all curriculum courses offered during the first two semester of the AAS degree in Respiratory Therapy. 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 Objectives:

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

1. Identify mechanical ventilator candidates.
2. Determine the most appropriate positive pressure ventilators needed for specific patients.
3. Determine initial ventilator settings.
4. Correctly modify the ventilator when change is indicated.
5. Identify the need for care and make modifications as necessary for mechanically ventilated patients.
6. Identify complications due to mechanical ventilation.
7. Determine what monitoring techniques would be well suited.
8. Identify the readiness for weaning.
9. Demonstrate post ventilator care.
10. Evaluate the need for return to the ventilator.

Major Topics to be Included:

1. Physiologic Effects of Positive Pressure Ventilation
2. Indications for Mechanical Ventilation
3. Ventilator Commitment
4. Determination of Settings on the Mechanical Ventilator
5. Monitoring the Patient/Mechanical Ventilator System
6. Ventilatory Maintenance
7. Ventilator Discontinuance
8. Physiologic Effects of Positive End-Expiratory Pressure
9. Indications for Positive End-Expiratory Pressure Therapy
10. Physiologic Positive End-Expiratory Pressure
11. Prophylactic Positive End-Expiratory Pressure
12. Inadvertent Positive End-Expiratory Pressure
13. Auto or Intrinsic Positive End-Expiratory Pressure
14. Clinical Goals of Positive End-Expiratory Pressure
15. Initiations for Positive End-Expiratory Pressure Therapy
16. Monitoring Positive End-Expiratory Pressure Therapy
17. Discontinuance of Positive End-Expiratory Pressure Therapy
18. Technical Application of Positive End-Expiratory Pressure

Effective Date of Course Content Summary: November 13, 2008