MOHAWK VALLEY COMMUNITY COLLEGE, UTICA-ROME, NY

COURSE OUTLINE

1. COURSE DESCRIPTION:

**RC112 Principles of Respiratory Care 2** C-3, P-3, Cr-4

This is the second course in the curriculum sequence to study the theory and practice of respiratory care. Topics include lung expansion therapies, airway management, acid-base balance, and the interpretation of arterial blood gas results. Detailed information required to initiate, maintain, monitor, and wean patients from mechanical ventilation is provided.

**Prerequisites:** A full year of high school general chemistry with laboratory (with a minimum grade of 70) within ten years or equivalent course with a minimum grade of C, RC101 Basic Science for Respiratory Care, RC103 Cardiopulmonary Pharmacology, and RC111 Principles of Respiratory Care 1

**Corequisites:** BI216 Human Anatomy & Physiology 1, RC115 Cardiopulmonary Diseases, and RC131 Clinical Practicum 1 or Program Coordinator consent. Minimum grade of "C" required.

1. STUDENT LEARNING OUTCOMES

**Upon completion of this course the student will be able to:**

1. The student will demonstrate an understanding of the purpose, indications, contraindications, precautions/hazards, and methods of safely administering lung expansion therapy.
2. The student will demonstrate an understanding of the purpose, indications, precautions, hazards, materials, and methods for a variety of airway management techniques.
3. The student will demonstrate an understanding of oxygen and CO2 transport and general acid-base balance in the body.
4. The student will demonstrate an understanding of the purpose, indications, precautions, hazards, materials, and methods for the delivery of mechanical ventilatory support.
5. The student will demonstrate an understanding of the indications, precautions, hazards, materials, and methods for the weaning and discontinuing mechanical ventilatory support.
6. MAJOR TOPICS:
7. Lung Expansion Therapy
8. Airway Management
9. Oxygenation, Acid Base Balance, and Arterial Blood Gas Interpretation
10. Mechanical Ventilatory Support
11. Weaning/Discontinuing Mechanical Ventilation