LABETTE COMMUNITY COLLEGE BRIEF SYLLABUS

SPECIAL NOTE:
This brief syllabus is not intended to be a legal contract. A full syllabus will be distributed to students at the first class session.

TEXT AND SUPPLEMENTARY MATERIALS USED IN THE COURSE (if any):

Please check with the LCC bookstore http://www.labette.edu/bookstore for the required texts for this class.

COURSE NUMBER: RESP 115

COURSE TITLE: INTRODUCTION TO MECHANICAL VENTILATION

SEMESTER CREDIT HOURS: 3

DEPARTMENT: Respiratory Therapy

DIVISION: Health Science

PREREQUISITES: RESP 101 Fundamentals of Respiratory Care I, RESP 105 Respiratory Care Pharmacology, RESP 107 Cardiopulmonary Anatomy & Physiology,

COURSE DESCRIPTION:
This introductory course covers basic concepts important to understanding mechanical ventilation. The student will concentrate on modes of ventilation, ventilator set-up and trouble-shooting, and charting of mechanical ventilation.

COURSE OUTCOMES AND COMPETENCIES:
Students who successfully complete this class will be able to:

1. Explain the physiological effects of mechanical ventilation.
   - List indications, physiological consequences, hazards, and complications of mechanical ventilation.
   - Identify differences between negative and positive pressure ventilation.
   - Explain how pressure, volume, and flow are limited during inspiration and how they can alter volume or pressure delivery.
   - Using lung analog, predict changes in pressure and volume due to changes in compliance and resistance
   - Contrast and compare Pressure Control Ventilation to Pressure Support to Volume Ventilation.
2. Initiate and monitor mechanical ventilation as appropriate.

- Discuss ways of monitoring positive and negative effects of mechanical ventilation.
- Describe different modes of ventilation.
- Identify appropriate initial settings for a given patient and circumstance.
- Identify ways to minimize negative effects of mechanical ventilation on the patient.
- Given settings, set up ventilator including alarm settings.
- Given a patient situation, trouble-shoot the mechanical ventilator.