

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.

<u>COURSE NUMBER:</u>	RESP 115
<u>COURSE TITLE:</u>	INTRODUCTION TO MECHANICAL VENTILATION
<u>SEMESTER CREDIT HOURS:</u>	3
<u>DEPARTMENT:</u>	Respiratory Therapy
<u>DIVISION:</u>	Health Science
<u>PREREQUISITES:</u>	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 troubleshooting, 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.