

## 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 213

**COURSE TITLE:** RESPIRATORY CARE TOPICS AND PROCEDURES

**SEMESTER CREDIT HOUR:** 3

**DEPARTMENT:** Respiratory Therapy

**DIVISION:** Health Science

**PREREQUISITES:** FRC I, II, & III, Cardiopulmonary Anatomy & Physiology, Pharmacology, Respiratory Diseases

### **COURSE DESCRIPTION:**

This is a course designed to prepare the student for specialized monitoring used by respiratory therapist and includes: invasive hemodynamic monitoring, intracranial pressure monitoring, bronchoscopies, thoracentesis, chest tubes, sleep studies, pulmonary rehabilitation, chest x-rays, and respiratory gas monitoring.

### **COURSE OUTCOMES AND COMPETENCIES:**

**Students who successfully complete this course will be able to:**

1. Demonstrate understanding of the significance of the results of hemodynamic monitoring and their application to patient management.

- Discuss the function of all components of fluid filled monitoring system.
- Describe the technique for the measurement of central venous pressure and the significance of its results.
- Describe the techniques used for the measurement of arterial blood pressure and discuss its importance in patient management.
- Describe the function of all lumens found on a balloon tipped flow directed catheter.
- Describe the significance of all measurements that can be obtained from a balloon tipped flow directed catheter.
- Describe the techniques that are used in the measurement of cardiac output and the significance of the results.

2. Demonstrate an understanding of the clinical application of intracranial pressure monitoring.

- Describe methods used in intracranial pressure monitoring.
- Discuss the significance of the results.
- Identify conditions which are associated with an increased intracranial pressure.

3. Demonstrate an understanding of the clinical application of bronchoscopy.

- Identify indications for bronchoscopy.
- Explain differences between the applications of fiberoptic and rigid bronchoscopy.

4. Comprehend an understanding of the function of chest drainage systems.

- Explain the function of all components of a three-bottle chest tube system.
- Express ability to identify proper function.
- Express ability to correct malfunctions of the chest tube system.

5. Demonstrate an ability to clinically apply information gathered from a chest xray.

- Identify endotracheal tube, central line, pulmonary artery line, and nasogastric tube placement.
- Name sources of artifact in the CXR.
- Label normal components of the CXR.
- Locate abnormalities in a CXR and their causes.

6. Demonstrate an understanding of the clinical application of respiratory gas monitoring.

- Define methods of obtaining respiratory gas measurements.
- Identify errors that can occur with obtaining respiratory gas measurements.
- Given information, evaluate the appropriateness of a respiratory care plan and recommend modification as necessary.