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 101

COURSE TITLE: FUNDAMENTALS OF RESPIRATORY CARE I

SEMESTER CREDIT HOURS: 3

DEPARTMENT: Respiratory Therapy

DIVISON: Health Science

PREQUISITE: Admission to the Program

COURSE DESCRIPITION:

This course provides instruction in basic gas physics and basic respiratory care. Included is a section on microbiology, patient assessment, and professionalism.

COURSE OUTCOMES AND COMPETENCIES:

Students who successfully complete this course will be able to:

- 1. Demonstrate an understanding of physics principles as they apply to Respiratory Care.
- Demonstrate ability to apply Venturi principle to respiratory care equipment.
- Demonstrate ability to apply Bernoulli principle to respiratory care equipment.
- Demonstrate ability to apply gas laws to respiratory care equipment.
- Demonstrate ability to apply gas laws in use and storage of compressed gases.
- Identify physics principles that directly affect patients.

2. Demonstrate an ability to safely handle, use and store compressed gases.

- Recognize specific government entities and describe their role as they apply to compressed medical gases.
- Demonstrate ability to proficiently and safely use compressed gas cylinders.
- Demonstrate ability to monitor compressed gas systems.
- Demonstrate an understanding of bulk storage systems and distribution systems used for compressed gases.

- 3. Demonstrate an ability to deliver medical gas therapy safely, appropriately, and effectively.
- Describe the purpose and function of the various devices utilized in the administration of medical gases.
- Demonstrate an ability to select the appropriate gas administration device based on a clinical situation.
- Demonstrate an understanding of the types of hypoxemia and a basic understanding of oxygen delivery to the tissues.
- Demonstrate the ability to proficiently monitor patients receiving medical gas therapy.
- Demonstrate the knowledge of the indications, clinical applications, hazards, and complications of medical gas therapy.
- 4. Demonstrate an ability to deliver aerosol and humidity therapy safely, appropriately, and effectively.
- Describe the function of the various types of humidifiers and nebulizers used for administration of humidity and aerosol therapy.
- Demonstrate knowledge of the indications, clinical application, hazards, and complications of humidity and aerosol therapy.
- Describe the function of the equipment (SVN, MDI, DPI) used for the administration of aerosol drug therapy.
- Demonstrate an ability when given a clinical situation to correctly administer aerosol therapy.
- 5. Demonstrate an ability to deliver bronchopulmonary hygiene therapy safely, appropriately, and effectively.
- Develop an understanding of the clinical application of the types of bronchial hygiene therapy.
- Demonstrate an understanding of the indications, techniques of administration, and the hazards and complications of bronchial hygiene therapy.
- Demonstrate knowledge of the indications, clinical application, hazards, and complications of bronchial hygiene therapy.
- Demonstrate an ability when given a clinical situation to correctly administer bronchial hygiene therapy.

6. Identify and demonstrate patient assessment techniques.

- Recognize common clinical signs of cardiopulmonary disease.
- Recommend diagnostic modalities to gather additional clinical data to determine presence of pulmonary disease.
- Collect clinical information through patient assessment.
- Analyze specific clinical data to determine presence of cardiopulmonary disease.

7. Demonstrate proper documentation skills.

- Recognize the importance of proper documentation.
- Identify standards for documentation of patient records.
- Organize patient information in a systematic manner.
- Appropriately record the assessment information on the medical record.
- Discuss the type of records that should be maintained by a respiratory care department.

8. Exhibit communication skills appropriate for respiratory care practitioner.

- List importance of communication: written, verbal, non-verbal
- Identify sources of miscommunication.
- Given specific scenarios, discuss means of maximizing communication between individuals.