RCP 111
THERAPEUTICS AND DIAGNOSTICS

COURSE DESCRIPTION:

Prerequisites:  RCP 110, RCP 113, RCP 114
Corequisites:   RCP123, RCP 145

This course is a continuation of RCP 110. Emphasis is on entry-level therapeutic and diagnostic procedures used in respiratory care. Upon completion, students should be able to demonstrate competence in concepts and procedures through written and laboratory evaluations. Course Hours Per Week:  Class, 4. Lab, 3. Semester Hours Credit: 5.

LEARNING OUTCOMES:

At the completion of the course requirements, the student should understand:

I.  Assessment of Respiratory disorders
II.  Basic therapeutics
III.  Patient education
IV.  Long-term care

OUTLINE OF INSTRUCTION:

I.  Assessment of Respiratory disorders
   a.  Interpretation of clinical laboratory data
      i.  CBC
      ii.  Electrolytes
      iii.  Sputum
      iv.  Gram staining
   b.  Performing and interpreting electrocardiograms
      i.  Set up leads for a 12 lead ECG
      ii.  Recognize pertinent ECG patterns
      iii.  Discuss PQRST Complex and heart physiology
   c.  Pulmonary function testing
      i.  Restrictive versus obstructive patterns
   d.  Thoracic imaging
      i.  Chest radiograph
      ii.  Ultrasonography
      iii.  Computed tomography
      iv.  Magnetic resonance imaging
   e.  Interpret and use an ABG in patient assessment
      i.  Analysis and monitoring of gas exchange
   f.  Non-invasive monitoring
      i.  Pulse oximetry
      ii.  End-tidal CO2
   g.  Point-of-care testing
II. Basic therapeutics
   a. Airway management
      i. Airway suctioning
      ii. Obtaining a sputum sample for analysis
      iii. Objectives and hazards of suctioning
      iv. Usage and care of all artificial airways
      v. Bronchoscopy
   b. Lung expansion therapy
      i. Concepts of hyperinflation
      ii. Choosing the right modality
      iii. Hazards and objectives of various modalities
   c. Bronchial hygiene therapy
      i. Choosing the right modality
      ii. Hazards and objectives of various modalities

III. Patient education
   a. Health promotion

IV. Long-term care
   a. Concepts of cardiopulmonary rehabilitation
   b. Home care
      i. Oxygen administration
      ii. Activities of daily living
      iii. Equipment care
      iv. Medicare requirements

REQUIRED TEXTBOOKS AND MATERIALS:

Textbooks to be selected by the instructor.

STATEMENT FOR STUDENTS WITH DISABILITIES:

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 919-536-7207, ext. 1413 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1209.