COURSE DESCRIPTION:

Prerequisites: RCP 110, RCP 113, RCP 114, and BIO 168
Corequisites: RCP 111, RCP 123, RCP 145, and BIO 169

This course introduces the etiology, pathogenesis, and physiology of cardiopulmonary diseases and disorders. Emphasis is on clinical signs and symptoms along with diagnoses, complications, prognoses, and management. Upon completion, students should be able to demonstrate competence in these concepts through written evaluations. Course Hours Per Week: Class, 2. Semester Hours Credit: 2.

LEARNING OUTCOMES:

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

I. Significance of a physical assessment procedure
II. Chest radiograph
III. How to record patient data and develop a patient treatment plan
IV. Cardiopulmonary manifestations of obstructive airway disease
V. Cardiopulmonary manifestations of infectious pulmonary diseases
VI. Cardiopulmonary manifestations of pulmonary vascular diseases
VII. Cardiopulmonary manifestations of pleural diseases and trauma
VIII. Cardiopulmonary manifestations of environmental lung disease
IX. Cardiopulmonary manifestations of neurologic disorders
X. Cardiopulmonary manifestations of neoplastic disease
XI. Cardiopulmonary manifestations of smoke inhalation, near drowning, atelectasis, and sleep apnea

OUTLINE OF INSTRUCTION:

I. Significance of a physical assessment procedure
   a. Non-invasive assessment techniques
   b. Invasive assessment techniques
   c. Commonly seen lab test

II. Chest radiograph
   a. Concepts of x-ray density
   b. PA and AP films
   c. Special techniques in the x-ray lab

III. How to record patient data and develop a patient treatment plan
   a. Patient interview
   b. Obtaining subjective data
   c. Obtaining objective data
   d. SOAP development and follow-up

IV. Cardiopulmonary manifestations of obstructive airway disease
   a. Review of pertinent anatomy
   b. Asthma
   c. Bronchitis
   d. Emphysema
e. Other obstructive diseases

V. Cardiopulmonary manifestations of infectious pulmonary diseases
   a. Pneumonias
   b. Tuberculosis
   c. Other infectious pulmonary diseases

VI. Cardiopulmonary manifestations of pulmonary vascular diseases
   a. Pulmonary edema
   b. Pulmonary embolism and infarction

VII. Cardiopulmonary manifestations of pleural diseases and trauma
   a. Flail chest
   b. Pneumothorax
   c. Pleural diseases
   d. Kyphoscoliosis
   e. Blunt chest trauma

VIII. Cardiopulmonary manifestations of environmental lung disease
   a. Pneumoconiosis
   b. Organic lung irritants

IX. Cardiopulmonary manifestations of neurologic disorders
   a. Guillain Barre
   b. Myasthenia gravis
   c. Sleep apnea

X. Cardiopulmonary manifestations of neoplastic disease
   a. Anatomic alterations in the lung
   b. General management of cancer

XI. Cardiopulmonary manifestations of smoke inhalation, near drowning, and atelectasis
   a. Smoke inhalation
   b. Near drowning
   c. Atelectasis

REQUIRED TEXTBOOKS AND MATERIALS:

Textbook to be selected by 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.