

**RCP 211**  
**ADVANCED MONITORING/PROCEDURES**

**COURSE DESCRIPTION:**

Prerequisites: RCP 210

Corequisites: RCP 245

This course includes advanced information gathering and decision making for the respiratory care professional. Topics include advanced cardiac monitoring and special procedures. Upon completion, students should be able to evaluate, design, and recommend appropriate care plans through written and laboratory evaluations. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

**LEARNING OUTCOMES:**

At the completion of the course requirements, the student will be able to:

- a. Monitor a patient by hemodynamics.
- b. Perform ACLS skills.
- c. Perform bedside pulmonary measurements.
- d. Research current literature on Respiratory Care.
- e. Monitor, assess, and interpret exercise test data.
- f. Monitor, assess, and interpret polysomnographic data.

**OUTLINE OF INSTRUCTION:**

- I. Patient hemodynamics
  - A. Set up of Swan Ganz catheter.
  - B. Interpret pressure reading.
- II. ACLS skills
  - A. Mock code.
  - B. Recognizing and treating arrhythmia's.
- III. Bedside pulmonary measurements and tests
  - A. Bedside PFT.
  - B. Bedside vent graphics.
  - C. New monitoring devices.
- IV. Current literature on Respiratory Care

- A. Use of computerized research tools.
  - B. Development of an in-service presentation.
  - C. Case studies and case management
  - D. Health promotion
  - E. Geriatrics
- V. Exercise testing
- A. General procedures and setup
  - B. Hazards and complications
  - C. Monitoring, assessment and interpretation of data
  - D. Equipment
- VI. Polysomnography
- A. General sleep study procedures, including evoked potential PSG
  - B. Principles and techniques of computer averaging
  - C. Specialized instrumentation and procedures
  - D. Ancillary devices associated with PSG recording
  - E. Principles of telemetry
  - F. Electrode placement and advanced electrophysiologic techniques
  - G. Multiple sleep study test
  - H. Penile study
  - I. Use of non-invasive ventilation techniques
  - J. Related anatomy and physiology

### **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 686-3652 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1309.