

**RESP 1111 Fundamentals of Respiratory Care (2-3-3)**

This course introduces the principles and practices of Non Critical Respiratory Care. The course will emphasize the use of Therapist Driven Protocols and Clinical Practice Guidelines. Basic Respiratory Care skills in modalities such as oxygen, humidity, bland aerosol, medicated aerosol, passive hyperinflation, chest physiotherapy, postural drainage, airway clearance therapies, arterial blood gases and bedside pulmonary function studies will be developed. Emphasis will be placed on setting up, using and troubleshooting equipment, and on the physical and physiologic principles of gas exchange, ventilation, acid/base balance and gas laws. To progress to RESP 2201, each student will be required to successfully complete and pass a Lab competency exam. Basic math competency is required. Students may be required to demonstrate proficiency in basic math skills for progression in the program. A passing score of "C: or better is required for progression in the program. The American Heart Association Basic Life Support course will be included in this course.

Corequisite: RESP 1100, RESP 1131, RESP 1133, RESP1134.

Prerequisites: Admission into Respiratory Care Program.

Offered: Fall Semester Sophomore Year.

**RESP 1131 Patient Assessment & Protocols (3-3-4)**

This course introduces the concepts and techniques of patient assessment through inspection, palpation, percussion, and auscultation. The student will demonstrate proficiency in patient physical examination, and taking a complete patient medical history. Principles of barrier protection for blood and body fluid exposures, and isolation precautions will be emphasized. Basic chest x-ray interpretation, basic ECG monitoring, basic laboratory values such as CBC, electrolytes, and basic microbiology are presented. Assessment of critically ill patients is introduced. Each student will be required to successfully complete a Lab competency examination.

Corequisite: RESP 1100, RESP 1111, RESP 1133, RESP 1134.

Prerequisites: Admission into the Respiratory Care Program.

Offered: Fall Semester Sophomore Year.

**RESP 1132 Cardiopulmonary Pharmacology (2-0-2)**

A general pharmacology course for the respiratory care professional caring for the acute and subacute patient. Emphasis will be placed on the indications, contraindication, hazards, and routes of administration for the drugs discussed. The pharmacology of the major therapeutic classes of drugs important to respiratory care will be presented.

Corequisites: RESP 1100, RESP 1111, RESP 1131, RESP 1133.

Prerequisites: None.

Offered: Spring Semester Sophomore Year.

**RESP 1133 Cardiopulmonary Anatomy & Physiology (3-0-3)**

A study of the normal & abnormal anatomy & pathophysiology of the cardiac, pulmonary, & renal systems. The mechanisms of homeostatic control for acid/base balance, ventilation, gas transport, & circulation will be addressed. Hemodynamic monitoring will be emphasized.

Corequisites: RESP 1100, RESP 1111, RESP 1131, RESP 1134.

Prerequisites: None.

Offered: Fall Semester Sophomore Year.