

# RESPIRATORY CARE (RET)

**RET 1024 Introduction to Respiratory Care****Credit Hours:** 2**Lab Fee:** Yes

This open-enrollment course is a comprehensive introduction to the respiratory care field and keeps students up-to-date with the latest advances and trends in professional practice. The course helps students gain a thorough understanding of the role of the respiratory therapist, scientific basis for treatment, and clinical applications.

**RET 1026 Fundamentals of Respiratory Care****Credit Hours:** 3

**Prerequisites:** RET 1024 with a grade of "C" or higher  
Fundamentals of basic respiratory care techniques and equipment, including respiratory pharmacology. Introductory physiotherapy along with medical gas, humidity and aerosol and hyperinflation therapy.

**RET 1264 Fundamentals of Respiratory Care 2****Credit Hours:** 3**Prerequisites:** RET 1026 with a grade of "C" or higher**Corequisites:** RET 1265**Lab Fee:** Yes

This course is a continuation of basic respiratory care techniques and equipment. Topics emphasized include a continuation of lung hyperinflation, bronchial hygiene therapies, radiography including CXR, CT, MRI and basic/advanced airway management.

**RET 1265 Mechanical Ventilation****Credit Hours:** 4

**Prerequisites:** RET 1264 with a grade of "C" or higher  
This course introduces the principles of mechanical ventilation, indications, types, methods, physiological adjustments, and trouble shooting. Current evidenced based approaches, techniques, and protocols are presented.

**RET 1293 Cardiopulmonary Medicine****Credit Hours:** 3

**Prerequisites:** RET 1485 with a grade of "C" higher  
This course is a study of the pathophysiology, clinical manifestations, assessment and treatment of cardiopulmonary diseases, commonly encountered in patients requiring respiratory care.

**RET 1414 Cardiopulmonary Diagnostics****Credit Hours:** 3**Prerequisites:** RET 1264 with a grade of "C" or higher**Lab Fee:** Yes

This course is a study of diagnostic techniques and instrumentation including pulmonary function testing, the electrocardiogram, treatment of cardiac anomalies and ACLS pharmacology.

**RET 1485 Cardiopulmonary Anatomy and Physiology****Credit Hours:** 3

A detailed study of the structure and function of the heart and lungs, including respiratory related abnormal physiological process and acid-base status.

**RET 1931 Special Topics in Respiratory Care****Credit Hours:** 2

**Prerequisites:** RET 1293 with a grade of "C" or higher  
This course includes sleep medicine, pulmonary rehabilitation, exercise physiology, nutrition, patient and family education, and respiratory care in the home.

**RET 2280 Critical Medicine in Respiratory Care****Credit Hours:** 3

This course includes chest tube maintenance, vacuum systems, nasogastric and orogastric tube placement and maintenance as related to the practice of respiratory care. Chest radiography, cardiopulmonary stress testing, Holter monitoring and hemodynamic monitoring are also discussed. Advanced Cardiac Life Support concepts are reviewed.

**RET 2350 Cardiopulmonary Pharmacology****Credit Hours:** 3

This course analyzes the history of pharmacology, regulatory agencies, and regulations concerning the use of drugs. The course will include drug action, absorption, and distribution in the human body with emphasis on respiratory, cardiac, and related drugs used in clinical settings.

**RET 2483 Patient Assessment and Interaction****Credit Hours:** 2**Lab Fee:** Yes

An introduction to comprehensive patient assessment including medical ethics, Health Insurance Portability and Accountability Act (HIPAA), prevention of medical errors and hands-on assessment utilizing the Human Patient Simulator Lab. Lecture and laboratory experiences.

**RET 2714 Neonatal/Pediatric Respiratory Care****Credit Hours:** 3

This course includes instruction in the development and physiology of the fetal and neonatal lung, fetal and newborn circulation, neonatal pulmonary disorders, and treatment of pediatric and neonatal patients. Emphasis will be placed on respiratory care techniques, airway management, mechanical ventilation, pediatric therapy, and drugs and dosages for the pediatric and neonatal patient.