Respiratory Therapy 101
This course provides an introduction to the profession of Respiratory Therapy, with an emphasis on the duties, responsibilities, and qualifications of a Respiratory Therapist. Elementary introduction into the lung disease processes and basic data identification are also introduced.

Respiratory Therapy 2
This course covers the structure and functions of respiratory therapy equipment. It also acquaints students with the maintenance and minor repair of most of the equipment used in the profession of respiratory care. Students are expected to be able to select, assemble, and correct malfunctions on most equipment used to provide respiratory care.

Respiratory Therapy 3
This course provides students clinical application of diagnostic techniques, equipment, medications, and therapeutic procedures based on the national Clinical Practice Guidelines as well as local standards of practice. Students are assigned to a selection of clinical facilities where they complete clinical competencies under continuous direct supervision of experienced Respiratory Therapists and college faculty to validate competence in the skills required to care for patients in a variety of related cardiopulmonary conditions and/or diseases.

Respiratory Therapy 4
This course provides students advanced theory in applications of respiratory therapy clinical experience, including oxygen transport, acid-base balance, renal function, electrolyte assessment, nutrition, pulmonary function testing, and pulmonary pathologies.

Respiratory Therapy 6
This course presents the physiology of the cardiopulmonary system from a clinical perspective including a review of cardiopulmonary and renal anatomy and physiology. Also included is an extensive presentation of pulmonary ventilation, gas transport and diffusion, cardiopulmonary circulation, ventilation/perfusion balance, acid-base balance, and mechanics and neurologic control of breathing. Emphasis is placed on the bedside interpretation of the acid-base status of patients that is used in the management of clinical respiratory patients.

Respiratory Therapy 7
In this course, the physiology, pathology, diagnosis, and treatment of the common diseases and disorders of the cardiovascular, respiratory, and neuromuscular systems are covered in detail. Techniques of laboratory evaluation and specific monitoring methods are discussed. A review of cardiopulmonary pharmacology, including anti-asthmatic and anti-infective drugs, is included.
Course Descriptions

**Respiratory Therapy 11**
In this clinical experience course, the student is assessed on competencies to perform independently and modify therapeutic procedures based on patient's response; recommending modifications in the respiratory care plan based on the patient's response; the appropriateness of the prescribed respiratory care plan and recommending modifications when indicated by data; initiating, conducting, or modifying respiratory care techniques in an emergency setting; acting as an assistant to the physician performing special procedures; and initiating and conducting pulmonary rehabilitation and home care.

**Respiratory Therapy 21**
This course presents an overview of the principles of physics that apply to respiratory care equipment, technology, and patient care including the behavior of gases and electricity and electrical safety. Internal heat, temperature scales and measurement are covered in detail. Molecular phenomena such as osmosis and dialysis, and the mechanics of the cardiovascular and respiratory systems are applied to bedside patient care. Principles of electricity and hospital electrical safety from both a patient and practitioner perspective are emphasized.

**Respiratory Therapy 23**
This course covers the pathology, assessment, diagnosis, and treatment of the common diseases and disorders of the respiratory, cardiovascular, and neuromuscular systems in detail. Emphasis is placed on the practice of patient assessment techniques, including common bedside and laboratory evaluation methods and practice, specific patient monitoring methods practice, medical record review, and communication and documentation skills practice.

**Respiratory Therapy 27**
This course provides a hospital setting in which the Respiratory Care student accompanies a Physician on patient clinical rounds to assess and determine the appropriateness of the prescribed respiratory care plan. The student also participates in the development of the respiratory care plan. Students are given computer clinical simulations based on respiratory care scenario's to solve, using clinical information gathering and decision making skills. In addition, CAI (computer assisted instruction) software is used to enhance the student's knowledge in specialty areas. The student critiques respiratory therapy case studies making recommendations, modification and discusses appropriate care. The use of critical thinking and problem solving skills are developed and implemented during classroom case study presentations. The student also participates in the development of the respiratory care plan, confers/interacts with the RT program's Medical Director, and discusses patient assessment and respiratory therapist expectations from the physician's perceptive.
**Course Descriptions**

**Respiratory Therapy 28**
This course provides a hospital setting in which the Respiratory Care student accompanies a physician on patient clinical rounds to assess and determine the appropriateness of the prescribed respiratory care plan. The student also participates in the development of the respiratory care plan. Students are given computer clinical simulations based on respiratory care scenarios to solve, using clinical information-gathering and decision-making skills. In addition, CAI (computer assisted instruction) software is used to enhance the student's knowledge in specialty areas.

This course presents prenatal development, high risk pregnancy, and normal labor and delivery as they relate to respiratory care. Assessment of the newborn and pediatric patient is covered as are neonatal and pediatric diseases and disorders with an emphasis on the respiratory care interventions, techniques, and equipment used in neonatal and pediatric patient care.

**Respiratory Therapy 30**
This course presents current techniques of monitoring the critically ill adult patient. This includes electrocardiography, cardiovascular/hemodynamic monitoring, capnography, and pulmonary function testing. Cardiovascular pharmacology and common approaches to supporting the unstable intensive care patient are presented. Advanced Cardiac Life Support (ACLS) algorithms for treatment of the patient with acute coronary syndrome and other related disorders are reviewed.