Resp 1100 Fundamentals of Respiratory Therapy  3 Credits
Prerequisite: admission to Respiratory Therapy program
This course introduces students to the field of respiratory care, including the role of the respiratory therapist within the healthcare system.
Students will learn to take medical histories, perform physical assessments of the respiratory system, take electrocardiograms, and perform basic bedside nursing skills. The course also discusses oxygen delivery systems and humidification of the airway.
(5 contact hours: 2 lecture, 3 lab)

Resp 1200 Cardiopulmonary Physiology  2 Credits
Prerequisite: admission to Respiratory Therapy program
This comprehensive course provides a detailed analysis of cardiopulmonary physiology, including blood gas analysis and its application to patient care.
The course also covers ventilation/perfusion relationships.
(2 contact hours)

Resp 1300 Cardiopulmonary Therapeutics  5 Credits
Prerequisite: Resp 1100, Resp 1200.
This course discusses fundamental respiratory therapy procedures and competencies. Students will apply them to simulated case studies, and practice them in the laboratory and clinical facilities under the supervision of a Registered Respiratory Therapist.
(12 contact hours: 3 lecture, 3 lab, 6 clinical)

Resp 1400 Pharmacology  1 Credit
Prerequisite: Resp 1100, Resp 1200.
This introductory course covers the pharmacology of the respiratory system, including a review of the autonomic nervous system, dosage calculations, pharmacokinetics, pharmacodynamics, and pharmacotherapeutics.
(1 contact hour)

Resp 1500 Cardiopulmonary Pathology  3 Credits
Prerequisite: Resp 1100, Resp 1200.
This course serves as an introduction to respiratory diseases including etiology, pathophysiology, clinical manifestations, treatment, and possible complications.
(3 contact hours)

Resp 1600 Advanced Diagnostics  5 Credits
Prerequisite: Resp 1300, Resp 1400.
This advanced course covers diagnostics related to the cardiopulmonary system, including pulmonary function studies and chest x-ray interpretation. Students will apply diagnostics to clinical problem solving.
(17 contact hours: 2 lecture, 3 lab, 12 clinical)

Resp 1800 Introduction to Pediatric Respiratory Therapy  2 Credits
Prerequisite: Resp 1300, Resp 1400.
This course introduces the study of embryology, neonatology, and pediatric respiratory care. It also includes a discussion of neonatal and pediatric disease.
(2 contact hours)

Resp 2100 Mechanical Ventilation  7 Credits
Prerequisite: Resp 1500, Resp 1600, Resp 1800.
This course serves as an introduction to mechanical ventilation and the acute care setting. Students will discuss and apply the competencies associated with this form of therapy to patient cases.
(23 contact hours: 4 lecture, 3 lab, 16 clinical)

Resp 2200 Hemodynamics and Electrocardiography  3 Credits
Prerequisite: Resp 1500, Resp 1600, Resp 1800.
This specialized course provides a study of the cardiovascular system, including invasive and non-invasive evaluation, pharmacology related to this system, and its application to patient care.
(3 contact hours)

Resp 2300 Long Term Care and Rehabilitation  6 Credits
Prerequisite: Resp 2100, Resp 2200.
This specialized course applies respiratory care to long-term care and rehabilitation. The course discusses the role of the therapist outside the acute care setting. Students will apply current standards of practice to patient care.
(22 contact hours: 3 lecture, 3 lab, 16 clinical)
RESP 2400 Advanced Therapeutics 3 Credits
Prerequisite: RESP 2100, RESP 2200.
This advanced course evaluates the application of research to respiratory care and the therapist's role. The course also includes classroom discussion of the economics and legal aspects of healthcare affecting the practice of respiratory care.
(3 contact hours)

RESP 2900 Special Topics in Respiratory Therapy 1-3 Credits
These specialized courses provide current or soon-to-be practitioners with in-depth examinations of respiratory care topics not covered in detail elsewhere in the curriculum. The courses provide students with opportunities to study and acquire skills beyond entry level.
(1-3 contact hours)

RESP 2901 Special Topics in Respiratory Care: Pulmonary Function - Entry Level 2 Credits
Prerequisite: Current healthcare provider or permission of the instructor.
This course is designed to cover the knowledge base needed for a certified pulmonary function technician (CPFT) as defined by the National Board for Respiratory Care (NBRC). It introduces the learner to pulmonary function tests, including their indications, administration techniques, quality measures, criteria for acceptability of results, and interpretation. The course includes National standards for testing as presented in the Clinical Practice Guidelines (CPG) from the American Association for Respiratory Care (AARC). It uses case studies to assist the learner in applying and interpreting the tests and results. It also explains and applies calculations for various tests, where appropriate.
(2 contact hours)