### RESPIRATORY CARE (2790)

#### 2790:100 Concepts in Respiratory Therapy (3 Credits)
**Prerequisites:** 2030:152 and 2030:153. Introductory concepts regarding the practice and application of the theories employed in respiratory therapy, including career information, equipment (lecture/discussion).

#### 2790:210 Respiratory Therapy Procedures I (3 Credits)
**Prerequisites:** [2790:100, 2750:120, and 2780:206] or [3100:200 and 3100:201]. Application of oxygen and aerosol therapy equipment. Lecture/laboratory.

#### 2790:215 Respiratory Therapy Pharmacology (3 Credits)
**Prerequisites:** 2790:100, 3150:110, and 3150:111. Pharmacologic actions and effects of medications delivered by respiratory therapists, and routes of administration.

#### 2790:290 Special Topics: Respiratory Care (1-3 Credits)
**Prerequisite:** Permission. Selected topics or subject areas of interest in respiratory therapy technology. (May be repeated for a maximum of three credits)

#### 2790:301 Cardiopulmonary Assessment Techniques (2 Credits)
**Prerequisites:** 2780:207 or [3100:202 and 3100:203]. Overall patient assessment, with concentration on the cardiopulmonary systems. Overview of common illness and related clinical manifestations. Lecture/laboratory.

#### 2790:302 Cardiopulmonary Anatomy and Physiology (3 Credits)

#### 2790:303 Cardiopulmonary Pathology (4 Credits)
**Prerequisites:** 2790:301 and 2790:302. Discussion of diseases of the heart and lungs, and their relationship to the role of the respiratory therapist.

#### 2790:311 Respiratory Therapy Procedures II (3 Credits)
**Prerequisites:** [2790:210 and 2780:207] or [3100:202 and 3100:203]. Airway Care and Lung Inflation Techniques. Lecture/laboratory.

#### 2790:312 Diagnostics I (3 Credits)

#### 2790:313 Diagnostics II (3 Credits)
**Prerequisites:** 2790:311 and 2790:312. Corequisite: 2790:303. Laboratory diagnostic studies for the evaluation of cardiopulmonary diseases. Lecture/laboratory.

#### 2790:315 Advanced Pharmacology for Respiratory Therapy (3 Credits)
**Prerequisite:** 2790:215. Pharmacologic actions and effects of Cardiopulmonary Medications.

#### 2790:320 Neonatal/Pediatrics for Respiratory Therapy I (3 Credits)
**Prerequisite:** 2790:301. In depth coverage of neonatal & pediatric respiratory care concepts. Emphasis placed on anatomy and physiology, assessment, and therapeutics.

#### 2790:325 Mechanical Ventilation (4 Credits)
**Prerequisites:** 2790:303, 2790:312, 2790:315, 2790:320, and 2790:341. Introduction to mechanical ventilation and equipment. Lecture/lab.

#### 2790:340 Application of Clinical Concepts (2 Credits)
**Prerequisite:** 2790:210. Corequisite: 2790:301. Introduction to basic respiratory therapy in a hospital setting, and hands-on practice with respiratory therapy equipment, including CPR for the professional. Lecture/clinical.

#### 2790:341 RT Clinical Experience I (3 Credits)

#### 2790:342 RT Clinical Experience II (2 Credits)
**Prerequisites:** 2790:315, 2790:325, and 2790:341. Application of clinical procedures in a hospital setting, with emphasis on mechanical ventilation techniques. 150 clinical hours.

#### 2790:413 Respiratory Therapy in Alternate Settings (3 Credits)
**Prerequisite:** 2790:313. Pulmonary rehabilitation and home care, as well as care in alternate settings. Lecture/lab.

#### 2790:420 Neonatal/Pediatrics for Respiratory Therapy II (3 Credits)
**Prerequisite:** 2790:320. Detailed study of airway management, pathophysiology and treatment modalities as they relate to neonatal/pediatrics.

#### 2790:421 ACLS & PALS (3 Credits)

#### 2790:430 Problems in Respiratory Therapy (4 Credits)
**Prerequisites:** 2790:313, 2790:420, and 2790:443. Capstone course, applies the concepts from clinical situations, using computer simulations and cases and evaluates research in Respiratory therapy.

#### 2790:443 RT Clinical Experience III (4 Credits)
**Prerequisite:** 2790:342. Rotation to a variety of Health care facilities to practice specialty procedures in each institution. 300 clinical hours.

#### 2790:444 RT Clinical Experience IV (4 Credits)
**Prerequisite:** 2790:443. Rotation to a variety of health care facilities to practice specialty procedures from each institution. Clinical (total of 300 hours).