### 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, 2740:120, and 2780:106] 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: 2780:107 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)**

**2790:312. Diagnostics I. (3 Credits)**

**2790:313. Diagnostics II. (3 Credits)**

**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)**

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).