

## **Bachelor of Science in Respiratory Therapy Course Descriptions**

### **RT 301 Interpersonal and Interprofessional Communication and Professionalism in Healthcare (3 Credit Hours)**

*Prerequisite(s): None*

This course focuses on the role of health professionals and interprofessional teams. An introduction to the university includes emphasis on resources and professional writing. In addition to interprofessional communication, concepts of evidence-based practice, Culture of Health, and clinician well-being are introduced. Content focuses on roles and communication strategies related to health issues within an ethical framework.

### **RT 305 Evidence-based Practice in Respiratory Therapy (3 Credit Hours)**

*Prerequisite(s): RT 301*

This course examines knowledge and skills regarding the design, implementation, analysis, and interpretation of research in respiratory care. Emphasis is placed on locating, selecting and critiquing relevant research in order to assure life-long focus on evidence-based care in respiratory therapy.

### **RT 310 Advanced Cardiopulmonary Pathophysiology (3 Credit Hours)**

*Prerequisite(s): RT 301*

This course examines cardiopulmonary pathophysiology with emphasis on anatomy and physiology and patient monitoring. Specific diseases and disorders are addressed with a focus on implications of pathophysiology on evidence-based treatment.

### **RT 320 Advanced Cardiopulmonary Pharmacology and Management of Conditions (3 Credit Hours)**

*Prerequisite(s): RT 301; RT 305 or concurrent enrollment*

This course identifies pharmacology and disease management for individuals with cardiopulmonary conditions. Patient support, disease management, and interventions related to evidence-based practices and achievement of positive outcomes are emphasized.

### **RT 325 Teaching in Respiratory Therapy (3 Credit Hours)**

*Prerequisite(s): RT 301*

This course examines teaching and learning theories and practices in respiratory therapy including the role of the respiratory therapist in clinical, education, and the community. Emphasis includes teaching of patients, family, community members, healthcare professionals, and students in education settings.

### **RT 401 Advanced Neonatal and Pediatric Respiratory Care (3 Credit Hours)**

*Prerequisite(s): RT 301, RT 305, RT 320*

This course focuses on respiratory care concepts and procedures related to neonatal and pediatric respiratory care. Students examine contemporary evidence-based practices pertinent to this population with a focus on positive outcomes.

### **RT 405 Professional Leadership for the Respiratory Therapist (3 Credit Hours)**

*Prerequisite(s): RT 301*

This course examines leadership principles and management styles and decision-making related to respiratory care program and management roles. Interprofessional teams and contemporary leadership practices in the work setting are areas of focus.

**RT 410 Program Administration in Respiratory Therapy (3 Credit Hours)**

*Prerequisite(s): RT 301; RT 405 or concurrent enrollment*

The course examines theories and applications of leadership and management principles in administration of a clinical or academic respiratory care program. Content focuses on management of staff, budgets, and respiratory therapy advocacy.

**RT 420 Project Management to Enhance Health Outcomes (3 Credit Hours)**

*Prerequisite(s): RT 301*

The course includes principles of project management essential to organization of work designed to enhance health outcomes in respiratory care settings.

**RT 498 Respiratory Therapy Capstone (3 Credit Hours)**

*Prerequisite(s): Senior standing; completion of all program requirements; a grade point of 2.0 overall or higher; a 2.0 or higher in the major.*

This capstone course integrates learning from previous courses completed in the program using a project-based approach. Completion of a capstone presentation is required. Emphasis includes reflective activities related to the core values and future professional development. The course includes service learning activities related to respiratory care in the community.