

# Respiratory Therapy - CPS (RPT)

## Courses

### **RPT 6962. Elective. (1-4 Hours)**

Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

### **RPT 6970. Seminar. (1-4 Hours)**

Offers an in-depth study of selected topics.

**Prerequisite(s):** RPT 7205 with a minimum grade of C- ; RPT 7210 with a minimum grade of C-

### **RPT 7200. Advanced Cardiopulmonary Physiology. (4 Hours)**

Covers advanced in-depth integrated physiology of the cardiovascular, renal, and pulmonary systems. Discusses the physiological dynamics, control mechanisms, and system interrelationships of the cardiovascular, pulmonary, and renal systems. Offers students an opportunity to make applications of advanced cardiopulmonary and renal physiology concepts to the management of neonatal, pediatric, adult, and geriatric patients requiring cardiovascular, pulmonary, and renal diagnosis and treatment.

### **RPT 7210. Research Design. (4 Hours)**

Covers different types of designs used in medical research. Emphasizes the evaluation of research designs in peer-reviewed medical journals. Discusses the quality of published research articles and evaluation of levels of evidence produced by clinical research. Attention is given to review of medical literature to identify evidence for current or new standards of practice. Discusses development of research protocols, proposals for research funding, and the management of research projects.

### **RPT 7215. Applied Research in Respiratory Care. (4 Hours)**

Offers a review and discussion of student research protocols and data analysis. Discusses how to prepare research abstracts, posters, and manuscripts under the guidance of departmental faculty. Integrates research outcomes to support clinical practice.

**Prerequisite(s):** RPT 7210 with a minimum grade of C-

### **RPT 7305. Development of Patient Management Plans. (4 Hours)**

Offers students an opportunity to use previously acquired knowledge and assessment skills to prepare respiratory care plans for those experiencing respiratory and respiratory-related disorders commonly encountered by the respiratory therapist. Includes how to evaluate outpatient and emergency department patients for home treatment; care plan development, including for patients with rehospitalization; rapid response team activation; or admission to ICU. Topics include concepts of respiratory and respiratory-related illnesses. Offers students an opportunity to learn how to make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment (evidence-based practice), which may lower the cost of healthcare delivery. Examines skills needed for future advanced practice respiratory therapist (APRT) roles.

### **RPT 7402. Adult Critical Care. (4 Hours)**

Offers students an opportunity to gain the foundations necessary to build a strong understanding of how to manage airways, administer specialty gases, manage mechanical ventilation, and deliver pharmacologic agents. Topics include assessment of patient status and changes in status and anticipating care based on laboratory results and reports on imaging. Offers students an opportunity to build a strong understanding of the effects of pharmacologic agents, how to anticipate care needed based on nutritional status, how to prevent ventilator-associated pneumonia, recognize and manage patients with infections and sepsis, manage end-of-life care, and prepare for disasters.

### **RPT 7962. Elective. (1-4 Hours)**

Offers elective credit for courses taken at other academic institutions.