

RESPIRATORY THERAPY (RES)

RES 250 Concepts of Respiratory Therapy Credits: 4

Typically Offered: Fall.

Course Description: Concepts of Respiratory Therapy is a study of the role of the respiratory therapist and foundations for treatments. Three hours lecture, two hours lab. **Prerequisite(s):** A grade of C or higher in BIO 250 and credit or concurrent enrollment in BIO 375.

RES 300 Cardiopulmonary Assessment Credits: 3

Typically Offered: Fall.

Course Description: Study of methods for data collection, assessment, and evaluation necessary for effective treatment of patients with cardiopulmonary disorders. Two hours lecture, two hours lab.

Prerequisite(s): Admission to the Respiratory Therapy program.

RES 310 Respiratory Clinical Practice I Credits: 3

Typically Offered: Fall.

Course Description: Application of respiratory therapy practice with an emphasis on basic therapeutic interventions. 135 hours of clinical practice. **Prerequisite(s):** Admission to the Respiratory Therapy program.

RES 315 Respiratory Diagnostics I Credits: 3

Typically Offered: Spring.

Course Description: A study of basic diagnostic studies in the monitoring and evaluation of patients with cardiopulmonary disease. Two hours lecture, two hours lab. **Prerequisite(s):** A grade of C or higher in RES 300, RES 310, and RES 325.

RES 325 Pharmacology for the Respiratory Therapist Credits: 3

Typically Offered: Fall.

Course Description: A study of pharmacology with an emphasis on medications used in the care of patients with respiratory conditions. Includes dose calculations, methods of administration, and recognition of adverse effects. **Prerequisite(s):** Admission to the Respiratory Therapy program.

RES 360 Respiratory Clinical Practice II Credits: 3

Typically Offered: Spring.

Course Description: Application of respiratory therapy practice in acute care settings with an emphasis on advanced therapeutic interventions. 135 hours of clinical practice. **Prerequisite(s):** A grade of C or higher in RES 300, RES 310, and RES 325.

RES 400 Mechanical Ventilation Credits: 4

Typically Offered: Spring.

Course Description: In-depth examination of mechanical ventilation and equipment. Three hours lecture, two hours lab. **Prerequisite(s):** A grade of C or higher in RES 300, RES 310, and RES 325.

RES 405 ACLS/PALS Credits: 3

Typically Offered: Fall.

Course Description: Emergency management of adult and pediatric patients. Includes completion of the American Heart Association courses on Advanced Cardiac Life Support (ACLS) and Pediatric Advanced Life Support (PALS). **Prerequisite(s):** A grade of C or higher in RES 315, RES 360, and RES 400, or department approval.

RES 410 Respiratory Clinical Practice III Credits: 4

Typically Offered: Fall.

Course Description: Application of respiratory therapy practice in specialty care environments. 180 hours of clinical practice.

Prerequisite(s): A grade of C or higher in RES 315, RES 360, and RES 400.

RES 415 Respiratory Diagnostics II Credits: 3

Typically Offered: Spring.

Course Description: A study of advanced diagnostic studies in the monitoring and evaluation of patients with cardiopulmonary disease. This course builds on content from Respiratory Diagnostics I. **Prerequisite(s):** A grade of C or higher in RES 315, RES 360, and RES 400.

RES 430 Neonatal and Pediatric Respiratory Care Credits: 4

Typically Offered: Fall.

Course Description: Examination of topics related to the assessment, diagnosis, and management of cardiopulmonary disease in neonatal and pediatric patient populations. Three hours lecture and two hours lab.

Prerequisite(s): A grade of C or higher in RES 315, RES 360, and RES 400.

RES 460 Respiratory Clinical Capstone Credits: 4

Typically Offered: Spring.

Course Description: Clinical practicum experience that includes application of evidence-based practice in interdisciplinary practice settings. 180 hours of clinical practice. **Prerequisite(s):** A grade of C or higher in RES 410, RES 415, and RES 430.

RES 470 Senior Seminar - NBRC Prep Credits: 3

Typically Offered: Spring.

Course Description: A review of respiratory care and preparation for the National Board for Respiratory Care (NBRC) Entry Level Therapist Multiple-Choice (TMC) Examination and the advanced Clinical Simulations Exam (CSE). **Prerequisite(s):** A grade of C or higher in RES 410, RES 415, and RES 430.