

RESPIRATORY CARE (RESP)

RESP 1101

Basic Respiratory Care

3 Credit Hours

Students will be introduced to the initiation and maintenance of common respiratory care procedures and equipment to include oxygen and aerosol administration, arterial blood gas procedure, pharmacological administration, lung expansion and airway clearance techniques. (2 lecture hours, 3 lab hours)

Prerequisite: Admission to the respiratory care program, concurrent enrollment in RESP 1105, RESP 1120, and RESP 1121, or consent of instructor.

RESP 1102

Intermediate Respiratory Care

3 Credit Hours

Students will continue to build upon skills learned in the prior semester with emphasis on cardiac and pulmonary pathology, positive pressure breathing, airway care, and introductory mechanical ventilation. (2 lecture hours, 3 lab hours)

Prerequisite: RESP 1101, RESP 1105, RESP 1120, and RESP 1121, all with a grade of C or better, or equivalent, and concurrent enrollment in RESP 1111, or consent of instructor.

RESP 1103

Advanced Respiratory Care

3 Credit Hours

Students will be introduced to application and management of life-support systems in the emergency and intensive care units. Topics include initiation, management and liberation of adult volume and pressure ventilation. (2 lecture hours, 3 lab hours)

Prerequisite: RESP 1102 and RESP 1111, both with a grade of C or better, or equivalent, and concurrent enrollment in RESP 1113, or consent of instructor.

RESP 1105

Respiratory Assessment and Procedures

4 Credit Hours

Students will be introduced to respiratory care patient assessment. Topics include gathering and evaluating patient history and clinical information as well as recommendations for respiratory care plans. Other topics include universal precautions, equipment safety for gas cylinders and metering devices, workplace laws, patient charting and communication, cardiopulmonary resuscitation (CPR) and concepts in transcultural patient care. (3 lecture hours, 3 lab hours)

Prerequisite: Admission to the Respiratory Care Program, and concurrent enrollment in RESP 1101, RESP 1120, and RESP 1121, or consent of instructor.

RESP 1111

Clinical Practice I

2 Credit Hours

Students will be introduced to the clinical practice of skills learned in the prior semester through assignments at clinical facilities. The application, quality, and independence of skills in addition to professional communication will be evaluated. (16 clinical hours)

Prerequisite: RESP 1101, RESP 1105, RESP 1120, and RESP 1121, all with a grade of C or better, and concurrent enrollment in RESP 1102, or consent of instructor.

RESP 1113

Intensive Respiratory Care Clinical Practice

1 Credit Hour

Students are introduced to the clinical practice of intensive care procedures within surgical, cardiac, and respiratory intensive care units as well as the emergency department. Students will apply knowledge of ventilator initiation, adjustments, and liberation through assignments at clinical facilities. The application, quality, and independence of skills and as well as professional communication will be evaluated. (10 clinical hours)

Prerequisite: RESP 1102 and RESP 1111, both with a grade of C or better, and concurrent enrollment in RESP 1103, or consent of instructor.

RESP 1120

Applied Cardiopulmonary Anatomy and Physiology

4 Credit Hours

Students will be introduced to cardiopulmonary anatomy and physiology as related to respiratory care procedures and clinical practice. Major emphasis is placed on the pulmonary and circulatory systems, ventilation and perfusion, central nervous system control, pulmonary function, and hemodynamic measurements. (3 lecture hours, 2 lab hours)

Prerequisite: Admission to the Respiratory Care Program, and concurrent enrollment in RESP 1101, RESP 1105, and RESP 1121, or consent of instructor.

RESP 1121

Science for Respiratory Care

5 Credit Hours

Students will be introduced to science concepts related to respiratory care procedures. Scientific concepts will include metabolic and respiratory acid-base balance, respiratory and cardiac formulas, blood gas data as applied to patient care, case study interpretation, and assessment. (5 lecture hours)

Prerequisite: Admission to Respiratory Care Program, and concurrent enrollment in RESP 1101, RESP 1105, and RESP 1120, or consent of instructor.

RESP 2201

Advanced Life Support, Monitoring, and Trends

4 Credit Hours

Students will expand concepts in mechanical ventilation management and procedures in the critical care setting. Topics will cover new trends in ventilator modes, advanced ventilator graphics, hemodynamic assessment and treatment, metabolic cart, and polysomnography results. Patient management through patient scenarios will be presented. (4 lecture hours)

Prerequisite: RESP 2205, RESP 2206, and RESP 2280, all with a grade of C or better or equivalent, and concurrent enrollment in RESP 2250, RESP 2207, and RESP 2202, or consent of instructor.

RESP 2202

Pulmonary Function Testing

3 Credit Hours

Students will be introduced to diagnostic tests performed in the pulmonary function lab. Topics include forced and slow vital capacity measurements, maximum voluntary ventilation, before and after bronchodilator studies, carbon monoxide diffusion, nitrogen washout, exercise testing, and other pulmonary diagnostic tests. (2 lecture hours, 2 lab hours)

Prerequisite: RESP 2205, RESP 2206, and RESP 2280, all with a grade of C or better, or equivalent, and concurrent enrollment in RESP 2201, RESP 2207, and RESP 2250, or consent of instructor.

RESP 2205

Neonatal and Pediatric Intensive Respiratory Care

3 Credit Hours

Students will be introduced to neonatal and pediatric respiratory intensive care principles. Topics include fetal circulation, congenital cardiac defects, maternal and patient assessment, airway care, ventilator initiation and management, and physiologic monitoring as applied to infants and children in the emergency and specialty intensive care units. Students will complete Neonatal Resuscitation Program certification. (2 lecture hours, 2 lab hours)

Prerequisite: RESP 1103 and RESP 1113, both with a grade of C or better, or equivalent, and concurrent enrollment in RESP 2280 and RESP 2206, or consent of instructor.

RESP 2206

Advanced Intensive Respiratory Care - Adult

2 Credit Hours

Students will continue to build on their clinical practice in adult emergency and intensive care units. Procedures will include clinical data evaluation, mechanical ventilation, hemodynamic monitoring, airway management, chest X-ray interpretation, pharmacologic administration, and advanced cardiac life-support (ACLS). (16 clinical hours)

Prerequisite: RESP 1103 and RESP 1113, both with a grade of C or better, or equivalent, and concurrent enrollment in RESP 2205 and RESP 2280, or consent of instructor.

RESP 2207

Advanced Intensive Respiratory Care - Neonatal-Pediatric

1 Credit Hour

Students will be introduced to advanced clinical practice in emergency, neonatal, and pediatric intensive care units through assignments at clinical facilities. Other rotations include long term care, pulmonary rehabilitation, physician offices, and home health. (10 clinical hours)

Prerequisite: RESP 2280 and RESP 2206, both with a grade of C or better, or equivalent, and concurrent enrollment in RESP 2201, RESP 2202, and RESP 2250, or consent of instructor.

RESP 2250

Respiratory Care Board Review

4 Credit Hours

Students will prepare for both Therapist Multiple Choice and Clinical Simulation board exams from the National Board of Respiratory Care through proctored testing. (4 lecture hours)

Prerequisite: RESP 2280, RESP 2205, and RESP 2206, all with a grade of C or better, or equivalent, and concurrent enrollment in RESP 2201, RESP 2202, and RESP 2207, or consent of instructor.

RESP 2280

Advanced Clinical Assessment and Protocol

4 Credit Hours

Students will learn advanced integration skills for clinical assessment of respiratory care patients in the adult intensive care setting. Topics include airway management, chest X-ray interpretation, pharmacologic agents, initiation of evidence based protocols, and best clinical practice guidelines. Students will complete Advanced Cardiovascular Life Support (ACLS) and Pediatric Advanced Life Support (PALS) certification. (3 lecture hours, 2 lab hours)

Prerequisite: RESP 1103 and RESP 1113, both with a grade of C or better, or equivalent, and concurrent enrollment in RESP 2205 and RESP 2206, or consent of instructor.