

RESPIRATORY THERAPY (RESP)

RESP 100 Concepts in Respiratory Therapy (3 Units)

Prerequisite: MATH 143 or MATH 144. Introductory concepts regarding the practice and application of the theories employed in the respiratory therapy profession including career information, clinical practice guidelines, and respiratory therapist driven protocols. (Formerly 2790:100)

RESP 210 Respiratory Therapy Procedures I (4 Units)

Prerequisites: RESP 100, BAHA 120 and ([ANAT 206 and ANAT 210] or [BIOL 200 and BIOL 201]). Study and application of medical gas safety regulations, oxygen and aerosol therapy administration, and humidification devices. (Formerly 2790:210)

RESP 215 Respiratory Therapy Pharmacology (3 Units)

Prerequisites: RESP 100, CHEM 110, and CHEM 111. Detailed study of pharmacologic classes, actions, routes of administration, and physiologic effects of cardiopulmonary medications. (Formerly 2790:215)

RESP 301 Cardiopulmonary Assessment Techniques (3 Units)

Prerequisite: [ANAT 207 and ANAT 211] or [BIOL 202 and BIOL 203]. Discussion and application of overall patient assessment with concentration on cardiopulmonary systems. Overview of common illnesses and related clinical manifestations will also be discussed. (Formerly 2790:301)

RESP 302 Cardiopulmonary Anatomy and Physiology (3 Units)

Prerequisites: RESP 210 and ([ANAT 207 and ANAT 211] or [BIOL 202 and BIOL 203]). Detailed study of anatomy and physiology of the cardiopulmonary systems, including the physics of gas exchange, ventilation, and blood flow. (Formerly 2790:302)

RESP 303 Cardiopulmonary Pathology (3 Units)

Prerequisites: RESP 301 and RESP 302. Detailed study of cardiopulmonary disease processes and their relationship to the role of respiratory therapists. (Formerly 2790:303)

RESP 311 Respiratory Therapy Procedures II (4 Units)

Prerequisites: RESP 210 and ([ANAT 207 and ANAT 211] or [BIOL 202 and BIOL 203]). Study and application of lung hyperinflation therapy, bronchopulmonary hygiene, and advanced airway management procedures. (Formerly 2790:311)

RESP 312 Cardiopulmonary Diagnostics I (3 Units)

Prerequisite: RESP 210. Exploration of current cardiopulmonary diagnostic techniques including invasive monitoring, arterial blood gas interpretation, and radiographic imaging interpretation. (Formerly 2790:312)

RESP 313 Cardiopulmonary Diagnostics II (4 Units)

Prerequisites: RESP 311 and RESP 312. Detailed study and application of hemodynamic monitoring, advanced pulmonary function testing techniques, and advanced electrocardiography interpretation. (Formerly 2790:313)

RESP 320 Neonatal/Pediatrics for Respiratory Therapy (3 Units)

Prerequisite: RESP 301. Introduction to neonatal and pediatric respiratory therapy concepts. Emphasis placed on anatomy and physiology, assessment, and basic respiratory therapeutics. (Formerly 2790:320)

RESP 325 Mechanical Ventilation (4 Units)

Prerequisites: RESP 303, RESP 312, RESP 320, and RESP 341. Detailed study of invasive and non-invasive mechanical ventilation. Emphasis placed on terminology, technology, patient assessment and determination of appropriate modes, initiation of ventilation, humidification, adverse effects, and liberation. Equipment testing and troubleshooting will also be discussed and applied. (Formerly 2790:325)

RESP 340 Application of Clinical Concepts (2 Units)

Prerequisite: RESP 210. Corequisite: RESP 301. Introduction to basic respiratory therapy in a hospital setting, and hands-on practice with respiratory therapy equipment, including CPR for the professional. Clinical. (Formerly 2790:340)

RESP 341 Respiratory Therapy Clinical Experience I (3 Units)

Prerequisites: RESP 215, RESP 311, and RESP 340. Application of clinical procedures in a hospital setting, with emphasis on basic respiratory therapeutic interventions. (Formerly 2790:341)

RESP 342 Respiratory Therapy Clinical Experience II (2 Units)

Prerequisites: RESP 325 and RESP 341. Application of clinical procedures in a hospital setting, with emphasis on critical care and mechanical ventilation. (Formerly 2790:342)

RESP 413 Evolving Roles of Respiratory Therapists (3 Units)

Prerequisite: RESP 313. Detailed study of evolving roles for Respiratory Therapists including career opportunities and outlook for roles in alternative settings. (Formerly 2790:413)

RESP 420 Advanced Neonatal/Pediatrics for Respiratory Therapy (3 Units)

Prerequisite: RESP 320. Detailed study of pathophysiology and advanced respiratory therapy treatment modalities as they relate to neonatal/pediatrics. (Formerly 2790:420)

RESP 421 Advanced Critical Care (3 Units)

Prerequisites: RESP 215, RESP 303, RESP 320 and RESP 325. Detailed study of advanced mechanical ventilator modes and management strategies for critically ill adult and pediatric patients. Critical care pharmacology, trauma assessment, advanced airway management, and advanced resuscitation skills will also be discussed. (Formerly 2790:421)

RESP 430 Survey of Research in Respiratory Therapy (4 Units)

Prerequisites: RESP 313, RESP 420, and RESP 443. Capstone course. Applies the concepts from clinical research cases and surveys research in the field of respiratory therapy. Statistical analysis and literature research components are reviewed. An evaluation of insurance reimbursement is included as well as a brief synopsis on career preparedness and licensure board exam tactics. (Formerly 2790:430)

RESP 443 Respiratory Therapy Clinical Experience III (4 Units)

Prerequisite: RESP 342. Clinical rotations to a variety of healthcare facilities to practice respiratory therapy specialty procedures in various institutions. (Formerly 2790:443)

RESP 444 Respiratory Therapy Clinical Experience IV (4 Units)

Prerequisite: RESP 443. Clinical rotations to a variety of healthcare facilities to practice respiratory therapy specialty procedures in various institutions. (Formerly 2790:444)

RESP 490 Special Topics: Respiratory Therapy (3 Units)

Prerequisite: Permission. Advanced independent study on selected topics or subject areas of interest in the field of respiratory therapy. (Formerly 2790:290)