

# Respiratory Therapy (RESP)

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## Courses

### **RESP 2200 Introduction to Respiratory Care: 3 semester hours.**

Introduction to the care of pulmonary patients. Focus on skills required and methods used to manage cardiopulmonary problems. Includes clinical practice of procedures and skills. COREQ: RESP 2200L. PREREQ: HO 1106 or CPH 2210/HCA 2210 and acceptance into the RESP program. F

### **RESP 2200L Introduction to Respiratory Care Lab: 1 semester hour.**

Introduction to the care of pulmonary patients utilizing skills and methods required to manage cardiopulmonary problems. PREREQ: Acceptance into the RESP program. COREQ: RESP 2200. F

### **RESP 2211 Respiratory Pharmacology: 2 semester hours.**

Study of therapeutic drug administration for respiratory therapists. Special emphasis on safety issues, sources of drug information, and application to respiratory care practice. PREREQ: RESP 2200 and acceptance into the RESP program. F

### **RESP 2214 Introduction to Pulmonary Disease: 4 semester hours.**

Integrated approach to the anatomy, physiology, and pathology of the cardiopulmonary system. Comparison of normal and abnormal function. Emphasis on cardiopulmonary functions that are frequently measured to monitor patient status. Includes clinical practice of procedures and skills. PREREQ: RESP 2200. S

### **RESP 2231 Patient Assessment and Infection Control: 3 semester hours.**

Comprehensive approach to assessment of adult and pediatric patients in clinical settings. Special emphasis on infection control. PREREQ: RESP 2214. F

### **RESP 2232 Neonatal and Pediatric Respiratory Care: 2 semester hours.**

Comprehensive approach to the assessment of Neonatal and pediatric patients in acute care settings. Special emphasis on the relationships between normal neonatal and pediatric development and cardiopulmonary physiology. PREREQ: RESP 2231. F

### **RESP 2280 Respiratory Care in Alternative Settings: 2 semester hours.**

Comprehensive approach to assessment of adult and pediatric patients in alternative settings. Special emphasis on management of cardiopulmonary complications. PREREQ: RESP 2231. Su

### **RESP 2296 Independent Study: 1-8 semester hours.**

Addresses specific learning needs of individuals for the enhancement of knowledge and skills within the program area under the guidance of an instructor. May be repeated. Graded S/U, or may be letter-graded. PREREQ: Permission of the instructor. D

### **RESP 2298 Special Topics: 1-8 semester hours.**

Addresses the specific needs of industry, enabling students to upgrade technical skills that are not included in the current program curriculum. May be repeated. Graded S/U, or may be letter-graded. PREREQ: Permission of instructor. D

### **RESP 3301 Critical Care Management: 3 semester hours.**

Exploration of operational characteristics of critical care, home care, transport, and neonatal ventilators. Includes clinical practice of procedures and skills. PREREQ: RESP 2200. COREQ: RESP 3301L. S

### **RESP 3301L Critical Care Management Lab: 1 semester hour.**

Lab performance and proficiency testing with equipment, concepts and techniques related to providing advanced care and managing cardiopulmonary problems of pulmonary patients. PREREQ: RESP 2200. COREQ: RESP 3301. S

### **RESP 3310 Clinical Management: 2 semester hours.**

Comprehensive approach to the management of adult and pediatric patients in acute care settings. Special emphasis on management of cardiopulmonary complications. PREREQ: RESP 2280. S

### **RESP 3320 Respiratory Practicum I: 5 semester hours.**

Focus on conducting respiratory care in the general hospital setting. PREREQ: RESP 2200, RESP 2200L, and RESP 2211. S

### **RESP 3325 Respiratory Practicum II: 3 semester hours.**

Focus on conducting respiratory care in the acute setting including the emergency room. PREREQ: RESP 2214, RESP 3301, and RESP 3320. Su

### **RESP 3330 Respiratory Practicum III: 5 semester hours.**

Focus on conducting respiratory care in the intensive care setting. PREREQ: RESP 2231 and RESP 3325. F

### **RESP 3335 Respiratory Practicum IV: 5 semester hours.**

Focus on conducting respiratory care in the alternative and neonatal intensive care settings. PREREQ: RESP 2232, RESP 2280, and RESP 3330. S

### **RESP 3396 Independent Study: 1-8 semester hours.**

Addresses specific learning needs of individuals for the enhancement of knowledge and skills within the program area under the guidance of an instructor. May be repeated.

### **RESP 3399 Experimental Course: 1-6 semester hours.**

The content of this course is not described in the catalog. Title and number of credits are announced in the Class Schedule. Experimental courses may be offered no more than three times with the same title and content. May be repeated.

### **RESP 4405 Advanced Respiratory Pharmacology: 3 semester hours.**

This course offers an in-depth exploration of pharmacological strategies for managing respiratory conditions. Designed for healthcare professionals with a foundational understanding of respiratory care. The course delves into the complexities of pharmacotherapy for respiratory patients in the med-surg and critical care units. PREREQ: RESP 4430 or instructor approval. F

### **RESP 4410 Health Care Research: 3 semester hours.**

Examination of health care based research to deepen student's understanding of locating, selecting, and critically reviewing quality peer reviewed journal articles to stay abreast of new medical information and to evaluate evidence of best practices applicable to improving respiratory patient care. Students will explore the stages of designing, implementing, and evaluating research, culminating in the creation and presentation of a detailed research protocol. PREREQ: Admission to program. F

### **RESP 4420 Leadership in Health Care Professions: 3 semester hours.**

In depth examination of various health care leadership styles and techniques; review of case studies of employee related issues; and evaluation of the design and operation of allied health departments to include fundamental concepts in healthcare management, law, and ethics. Topics of discussion will cover leadership, communication, time management, problem solving, motivation, productivity, policy improvement, recruitment, selection, and training of new employees. PREREQ: Admission to program. S

***RESP 4430 Disease Management: 3 semester hours.***

This course is designed for department leaders to investigate the impact and issues encountered with disease management through exploration of advanced physiology related to the cardiovascular and pulmonary systems. It covers cardiac and circulatory function, the regulation and operation of the cardiovascular system, and an in-depth analysis of respiratory physiology. The primary focus is on connecting physiological principles with clinical processes to enhance patient care in cases of cardiopulmonary disease. Discussion of the respiratory therapists' contribution to an inter-professional team in order to provide safe and effective patient care. PREREQ: Admission to program or instructor approval. F

***RESP 4435 Adult Critical Care: 3 semester hours.***

This comprehensive course is designed to elevate the critical skills required for respiratory therapists working in adult critical care environments. Tailored specifically for interdisciplinary teams, the course offers an in-depth orientation for managing critically ill adult patients. Participants will acquire the knowledge and skills necessary to effectively manage and treat complex cases in adult critical care settings. PREREQ: RESP 4430 or instructor approval. S

***RESP 4440 Caring for an Aging Population: 2 semester hours.***

This course provides a comprehensive exploration of geriatric patient care, focusing on various aspects including pulmonary care, rehabilitation, home care, and the social dimensions of gerontology. Key topics include respiratory care monitoring, diagnostics, and advanced emergency procedures. The course addresses current issues in geriatric respiratory care, including the impact of chronic conditions such as asthma, pneumonia, heart disease, and the common cold on the aging population's breathing difficulties. An in-depth examination of pulmonary function testing and other outpatient diagnostic tests is also included, offering valuable insights into the specific needs and challenges of elderly patients. PREREQ: Admission to program or instructor approval. S

***RESP 4445 Adv Neonatal/Pediatric Care: 3 semester hours.***

This comprehensive course is designed to enhance the critical skills required for respiratory therapists working in neonatal and pediatric critical care environments. Tailored specifically for interdisciplinary teams, the course provides an in-depth orientation for treating critically ill neonates and children. Through this course, participants will gain the knowledge and skills needed to effectively manage and treat complex cases in neonatal and pediatric critical care. PREREQ: RESP 4430 or instructor approval. S

***RESP 4450 Ethics in Health Care: 3 semester hours.***

An advanced exploration of the legal and ethical responsibilities required of health care practitioners designed to help students develop a clearer understanding and advocacy of patient's rights. Ethical theories and principles applicable to the allied health professions will be considered with a primary focus on respiratory care. Using scholarly inquiry, including case studies, students will analyze ethical dilemmas that may occur in their professional roles as respiratory therapists. Students will address ethical and legal circumstances across the lifespan in diverse socioeconomic and cultural situations. PREREQ: Admission to program. F

***RESP 4460 Quality Management and Education: 3 semester hours.***

The focus of this course is to provide students with a solid foundation in quality management and education. Quality management encompasses four main components: quality planning, quality assurance, quality control and quality improvement.

***RESP 4490 Respiratory Care Capstone: 3 semester hours.***

Culmination and integration of core program courses leading to the production and presentation of a final project. Students will enroll in this capstone course during their final semester of the program. PREREQ: Instructor approval. F, S