

# RESPIRATORY THERAPY (RESP)

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## **RESP 300 Respiratory Health and Disease 3 Credit Hour(s)**

The study of normal pulmonary mechanisms, manifestations and treatment of respiratory disease, their clinical course with specific focus on the basis for respiratory therapeutics.

**Registration Restrictions:** Admission to Respiratory Therapy, Junior/Senior status

**Offered:** Resident

## **RESP 302 Respiratory Care Equipment and Techniques 4 Credit Hour(s)**

Study and clinical application of respiratory care equipment utilized in the hospital setting (3 hour class/1 hour lab).

**Registration Restrictions:** Admission to Respiratory Therapy, Junior/Senior status

**Offered:** Resident

## **RESP 304 Introduction to Respiratory Care 3 Credit Hour(s)**

An orientation to the profession, consideration of professional ethics, introduction to basic cardiopulmonary assessment and life support techniques, infections control, medical record, hospital environment and role of the respiratory therapist.

**Registration Restrictions:** Admission to Respiratory Therapy, Junior/Senior status

**Offered:** Resident

## **RESP 306 Pulmonary Function and Testing 4 Credit Hour(s)**

Study of methods, instrumentation, standards and clinical applications of pulmonary function testing, monitoring and blood gas analysis with emphasis on quality assurance.

**Registration Restrictions:** Admission to Respiratory Therapy, Junior/Senior status.

**Offered:** Resident

## **RESP 308 Artificial Ventilation 3 Credit Hour(s)**

Study of various mechanical ventilators and device interfaces (artificial airways and masks), with a major emphasis placed on all aspects of the management of the patient-ventilator system.

**Registration Restrictions:** Admission to Respiratory Therapy, Junior/Senior status

**Offered:** Resident

## **RESP 310 Clinical Observation 4 Credit Hour(s)**

Clinical observation of respiratory therapy in a variety of environments.

**Registration Restrictions:** Admission to Respiratory Therapy, Junior/Senior status

**Offered:** Resident

## **RESP 320 Neonatal Respiratory Care 2 Credit Hour(s)**

**Online Prerequisite:** RESP 300

Theories, procedures and equipment applicable to the delivery of respiratory therapy in neonatal care.

**Registration Restrictions:** Admission to BS Respiratory Therapy degree, Junior/Senior status.

**Offered:** Online

## **RESP 321 Pediatric Respiratory Care 2 Credit Hour(s)**

**Resident Prerequisite:** RESP 320

Theories, procedures and equipment applicable to the delivery of respiratory therapy in pediatric care (outside of the neonatal period).

**Offered:** Resident and Online

## **RESP 322 Respiratory Care for Special Populations 3 Credit Hour(s)**

Theories, procedures and equipment applicable to the delivery of respiratory therapy to special populations such as home care, sleep, community health, rehabilitation and long-term care.

**Registration Restrictions:** Admission to Respiratory Therapy, Junior/Senior status

**Offered:** Resident

## **RESP 324 Respiratory Pharmacology 3 Credit Hour(s)**

Introduces the physiologic and pharmacologic basis of cardiopulmonary medications. Preparation, calculation of dosages, mixtures and general principles of pharmacology will be covered followed by an in-depth discussion of bronchoactive drugs, and drug groups related to the cardiopulmonary system such as neuromuscular blocking agents, central nervous system depressants, cardiovascular agents and diuretics.

**Registration Restrictions:** Admission to Respiratory Therapy, Junior/Senior status

**Offered:** Resident

## **RESP 400 Critical Respiratory Care 3 Credit Hour(s)**

Provides instruction on all phases of adult critical care inclusive of mechanical ventilation monitoring, support, weaning and liberation from. Additionally, a study of invasive and non-invasive cardiopulmonary monitoring commonly seen in the ICU.

**Registration Restrictions:** Admission to Respiratory Therapy, Junior/Senior status

**Offered:** Resident

## **RESP 402 Clinical Experience I 4 Credit Hour(s)**

Clinical observations and achievement of competencies related to respiratory care procedures in general and surgical acute care units.

**Registration Restrictions:** Admission to Respiratory Therapy, Junior/Senior status

**Offered:** Resident and Online

## **RESP 404 Guided Study in Respiratory Care 3 Credit Hour(s)**

Guided study of topics or pursuits of individual experiences in respiratory therapy.

**Registration Restrictions:** Admission to Respiratory Therapy, Junior/Senior status

**Offered:** Resident

## **RESP 406 Advanced Ventilatory Support 3 Credit Hour(s)**

Advance ventilatory support inclusive of advanced modes (NAVA, APRV, PAV, ASV, etc), high frequency ventilation, extracorporeal CO2 removal and extracorporeal membrane oxygenation.

**Offered:** Resident and Online

## **RESP 408 Pulmonary Disease Management 3 Credit Hour(s)**

Study of etiology, pathophysiology, diagnosis, treatment and prognosis of common pulmonary disease and conditions. Topics include post critical care managements of acute respiratory distress syndrome, obstructive and restrictive pulmonary diseases, neoplastic disease of the lung, disordered breathing, cardiac and cardiovascular disorders, neurologic and neuromuscular disorders and the associated disease management techniques shown to improve quality of life through education of patient (self-management) and of other care providers (care continuity).

**Registration Restrictions:** Admission to Respiratory Therapy, Senior status

**Offered:** Resident

## **RESP 410 Seminar 3 Credit Hour(s)**

Conferences, group discussion and presentation of selected topics.

**Registration Restrictions:** Admission to Respiratory Therapy, Senior status

**Offered:** Resident and Online

**RESP 412 Clinical Experiences II 4 Credit Hour(s)**

Clinical observations and achievement of competencies related to respiratory care procedures in critical care, neonatal and pediatric areas.

**Registration Restrictions:** Admission to Respiratory Therapy, Senior status

**Offered:** Resident and Online

**RESP 420 Cardiopulmonary Physiology and Monitoring 3 Credit Hour(s)**

Study of cardiopulmonary anatomy, physiology and monitoring of functionality. The study includes but not limited to ventilatory mechanics, gas transport, natural and chemical regulation of breathing, circulation, blood flow and pressure, cardiac output and the monitoring of each of these topics.

**Registration Restrictions:** Admission to Respiratory Therapy, Senior status

**Offered:** Online

**RESP 422 Current Issues in Respiratory Care 3 Credit Hour(s)**

An analysis of current administrative, legal, regulatory, professional issues and current trends which influence the administration of respiratory therapy.

**Registration Restrictions:** Admission to Respiratory Therapy, Senior status

**Offered:** Online

**RESP 424 Teaching and Learning Respiratory Therapy 3 Credit Hour(s)**

Principles and practice of teaching and learning in respiratory therapy.

Various education roles and strategies of respiratory therapist in academic, community and clinical settings.

**Registration Restrictions:** Admission to Respiratory Therapy, Senior status

**Offered:** Resident and Online

**RESP 430 Fundamentals of Respiratory Care Research 3 Credit Hour(s)**

Survey of research problems, methods and designs utilized in respiratory care, with emphasis on data collection, analysis and presentation.

**Registration Restrictions:** Admission to Respiratory Therapy, Senior status

**Offered:** Online

**RESP 432 Respiratory Care Management and Leadership 3 Credit Hour(s)**

Study of management principles and problems as they relate to respiratory care and the management of the department, hospital, service organization, and health care programs will be reviewed.

**Registration Restrictions:** Admission to Respiratory Therapy, Junior/Senior status

**Offered:** Online