

# RESPIRATORY THERAPY (RESD)

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## **RESD 102 Theory and Principles of Respiratory Therapy**

**2 Units** (Degree Applicable, CSU)

Lecture: 36

Prerequisite: ANAT 10A and ANAT 10B and CHEM 10 and MATH 51 and MEDI 90

Corequisite: (RESD 51A or RESD 104) and (RESD 52 or RESD 106)

Formerly RESD 50.

History of respiratory care, patient confidentiality, patient safety, principles of infection control, bloodborne and airborne pathogens, ethical and legal implications of practice, professionalism, physical principles of respiratory care, and computer applications in respiratory care.

## **RESD 104 Respiratory Therapy Science**

**4 Units** (Degree Applicable, CSU)

Lecture: 54 Lab: 54

Prerequisite: MATH 51, and MEDI 90, and CHEM 10, and ANAT 10A, and ANAT 10B.

Corequisite: (RESD 50 or RESD 102) and (RESD 52 or RESD 106)

Formerly RESD 51A.

Principles of respiratory therapy equipment. Emphasis placed on methods of administration of therapy and application of specialized equipment in the clinical setting. Also includes respiratory physiology and oxygen transport.

## **RESD 106 Pulmonary Anatomy and Physiology**

**3 Units** (Degree Applicable, CSU)

Lecture: 54

Prerequisite: MEDI 90 and CHEM 10 and ANAT 10A and ANAT 10B and MATH 51

Corequisite: (RESD 51A or RESD 104) and (RESD 50 or RESD 102)

Formerly RESD 52.

A study of the function and interaction of the cardiovascular and pulmonary systems.

## **RESD 108 Pharmacology for Respiratory Care**

**1.5 Units** (Degree Applicable, CSU)

Lecture: 27

Prerequisite: (RESD 50 or RESD 102) and (RESD 51A or RESD 104) and (RESD 52 or RESD 106)

Formerly RESD 62.

Commonly used respiratory care drugs with emphasis on dosage, indications, contraindications, adverse reactions, and expected outcomes.

## **RESD 110 Respiratory Therapy Science**

**4 Units** (Degree Applicable, CSU)

Lecture: 54 Lab: 54

Prerequisite: (RESD 102 or RESD 50) and (RESD 104 or RESD 51A)

Corequisite: RESD 112 and RESD 114

Formerly RESD 51B.

Basic principles of respiratory therapy equipment. Emphasis is placed on the methods of administration of therapy and the application of specialized equipment in the acute care setting and the application of mechanical ventilation in the clinical setting.

## **RESD 112 Cardiopulmonary Pathophysiology**

**3 Units** (Degree Applicable, CSU)

Lecture: 54

Corequisite: RESD 110

Formerly RESD 53.

Etiology, anatomic alterations of the lungs, overview of the cardiopulmonary clinical manifestations, and general management of commonly encountered cardiopulmonary diseases.

## **RESD 114 Comprehensive Pulmonary Assessment**

**3 Units** (Degree Applicable, CSU)

Lecture: 54

Corequisite: RESD 110 and RESD 112

Formerly RESD 60.

Techniques of pulmonary assessment, including history taking, clinical laboratory data, pulmonary function testing data, chest X-rays, physical exam findings, arterial blood gas data, hemodynamic monitoring data, exhaled gas monitoring data, nutrition, and synopsis of findings, which includes extensive practice in interpreting this data.

## **RESD 116 Special Procedures for Respiratory Care**

**1.5 Units** (Degree Applicable, CSU)

Lecture: 27

Prerequisite: RESD 110 or RESD 51B

Corequisite: RESD 200A

Formerly RESD 57B.

Application and skills development in bronchoscopy, chest tubes, mechanical ventilation, microbiology, and arterial blood gas puncture.

## **RESD 200A Techniques of Respiratory Therapy**

**2.5 Units** (Degree Applicable, CSU)

(May be taken for Pass/No Pass only)

Lab: 143

Prerequisite: RESD 51B OR RESD 110

Corequisite: RESD 57B OR RESD 116

Formerly RESD 56A.

Clinical practice in intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients in a hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 51A or RESD 104 and RESD 51B or RESD 110 and apply concepts learned in the first academic sessions of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities and diagnostic procedures performed in the general management and treatment of adult and pediatric patients requiring respiratory care are introduced.

**RESD 200B Techniques of Respiratory Therapy**

**6 Units** (Degree Applicable, CSU)

(May be taken for Pass/No Pass only)

Lab: 324

Prerequisite: RESD 56A or RESD 200A

Corequisite: (RESD 55 or RESD 202) and (RESD 58 or RESD 204)

Formerly RESD 56B.

Clinical practice in the hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 104 or RESD 51A and RESD 51B and apply concepts learned in the first three semesters of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities and diagnostic procedures performed in the management and treatment of adult and pediatric patients requiring respiratory care. Emphasis of intensive care and mechanical ventilator procedures are introduced.

**RESD 200C Techniques of Respiratory Therapy**

**2.5 Units** (Degree Applicable, CSU)

(May be taken for Pass/No Pass only)

Lab: 143

Prerequisite: RESD 55 or RESD 202

Formerly RESD 56C.

Clinical practice in the hospital setting. Continued practice of intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients.

**RESD 200D Techniques of Respiratory Therapy**

**6 Units** (Degree Applicable, CSU)

(May be taken for Pass/No Pass only)

Lab: 324

Prerequisite: RESD 56C or RESD 200C

Corequisite: RESD 59 or RESD 206 and RESD 61 or RESD 208

Formerly RESD 56D.

Clinical practice including adult and neonatal intensive care requiring demonstration of all learned clinical skills. Application of therapeutic modalities and diagnostic procedures performed in the management and treatment of adult and pediatric intensive care patients. A six-week rotation is done in the neonatal intensive care unit. The student is expected to perform basic therapeutic modalities mastered in RESD 104 or RESD 51A and RESD 51B and apply concepts learned in the first four semesters of the Respiratory Therapy Program.

**RESD 202 Adult Respiratory Intensive Care**

**3 Units** (Degree Applicable, CSU)

Lecture: 54

Corequisite: RESD 200B or RESD 56B

Formerly RESD 55.

Provides an in-depth approach to the current modalities and monitoring tools of respiratory care. Emphasis is on the adult patient who is critically ill with cardiopulmonary failure.

**RESD 204 Neonatal Intensive Care**

**3 Units** (Degree Applicable, CSU)

Lecture: 54

Corequisite: RESD 200B and RESD 202

Formerly RESD 58.

Emphasizes neonatal pathophysiologies, etiologies, and ramifications. Encompasses the newest techniques in monitoring equipment used in the treatment and maintenance of the premature infant. Designed primarily for respiratory therapists and nurses.

**RESD 206 Respiratory Therapeutic Modalities**

**3 Units** (Degree Applicable, CSU)

Lecture: 54

Prerequisite: RESD 55 or RESD 202

Corequisite: (RESD 56D or RESD 200D) and (RESD 61 or RESD 208)

Formerly RESD 59.

Advanced practitioner review and evaluation of patient data, equipment manipulation, and therapeutic respiratory therapy procedures. Student self-assessment and preparation for board examinations, credentialing and employment. Students are required to purchase self-assessment examinations.

**RESD 208 Current Issues in Respiratory Care**

**3 Units** (Degree Applicable, CSU)

Lecture: 54

Prerequisite: RESD 56C or RESD 200C

Corequisite: RESD 200D and RESD 206

Formerly RESD 61.

Explores recently developed health care techniques and strategies for diagnostics, assessment, and therapeutics and their impact on respiratory therapists.