

RESPIRATORY THERAPY TECHNOLOGY (RTT)

RTT 10000 INTRODUCTION TO RESPIRATORY THERAPY 4 Credit Hours

Establishes a foundation in the profession of respiratory care. Topics include: patient assessment and monitoring, medical gas and humidity therapy, infection control, communication and diversity, clinical environment, patient education, disaster management, ethics and law, quality assurance and evidence based medicine, industry standards, healthcare reimbursement.

Prerequisite: Admission to technical study.

Schedule Type: Laboratory, Lecture

Contact Hours: 3 lecture, 2.5 lab

Grade Mode: Standard Letter

RTT 11001 RESPIRATORY CARE PHARMACOLOGY 2 Credit Hours

Basic principles in pharmacology, specific to respiratory care, covering the pharmacokinetic action of drugs, administration, calculations, and effects on the body systems.

Prerequisite: RTT 11003 with a minimum C grade.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

RTT 11002 CARDIOPULMONARY DISEASES 3 Credit Hours

A study of diseases and disorders affecting the cardiopulmonary system; etiology, pathophysiology, clinical manifestations, analyzing and interpreting data, constructing respiratory care plans and the role of the respiratory therapist in treatment.

Prerequisite: RTT 10000 and RTT 11003 with a minimum C grade.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

RTT 11003 APPLICATION AND MECHANISMS OF CARDIOPULMONARY ANATOMY AND PHYSIOLOGY 3 Credit Hours

Provides a solid foundation in cardiopulmonary anatomy and physiology with relevant applied physiology as it relates to the profession of respiratory care.

Prerequisite: Admission to technical study; and respiratory therapy technology major.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

RTT 11004 THERAPEUTICS 6 Credit Hours

Introduction to inhaled medication administration, hyperinflation therapy, bronchopulmonary hygiene, and airway management. There is a laboratory and clinical component.

Prerequisite: RTT 10000 and RTT 11003 with a minimum C grade.

Schedule Type: Clinical Laboratory, Laboratory, Lecture

Contact Hours: 4 lecture, 3 lab, 8 other

Grade Mode: Standard Letter

RTT 11006 INTRODUCTION TO CLINICAL RESPIRATORY CARE 3

Credit Hours

Introduction to patient assessment and monitoring, communication, infection control, medical records, medical gas and humidity therapy, and the clinical environment. There is a laboratory component.

Prerequisite: Admission to technical study; and respiratory therapy technology major.

Schedule Type: Laboratory, Lecture

Contact Hours: 2 lecture, 3 lab

Grade Mode: Standard Letter

RTT 11008 BLOOD GAS ANALYSIS 2 Credit Hours

A study of methods, equipment, and procedures for obtaining arterial blood; additionally, the principles and standards of analysis and applications of physiological data is stressed.

Prerequisite: RTT 10000 and RTT 11003 with a minimum C grade.

Schedule Type: Combined Lecture and Lab

Contact Hours: 1.5 lecture, 1.5 lab

Grade Mode: Standard Letter

RTT 21000 CRITICAL CARE 4 Credit Hours

An advanced-level course that provides a foundation for managing patients in critical care utilizing mechanical ventilation, pharmacology, and hemodynamic monitoring systems. Students perform, interpret and apply data, and learn advanced life support. There is a clinical component.

Prerequisite: RTT 21001 and RTT 21003 with a minimum C grade.

Schedule Type: Clinical Laboratory, Lecture

Contact Hours: 3 lecture, 16 other

Grade Mode: Standard Letter

RTT 21001 MECHANICAL VENTILATION 5 Credit Hours

Establishes a foundation of mechanical ventilation and associated equipment; assessment, monitoring and modifying parameters. There is a laboratory and clinical component.

Prerequisite: Minimum C grade in RTT 11001 or AHS 12000; and minimum C grade in RTT 11002, RTT 11004 and RTT 11008; and minimum C grade BSCI 11010 (and BSCI 11020) or BSCI 21010 (and BSCI 21020); and minimum C grade in PHY 12111 or PHY 13001; and minimum C grade in CHEM 10050 or CHEM 10055 or CHEM 10060; and minimum C grade in ENG 11011 or ENG 21011 or HONR 10197 or HONR 10297.

Schedule Type: Clinical Laboratory, Laboratory, Lecture

Contact Hours: 4 lecture, 4 lab, 16 other

Grade Mode: Standard Letter

RTT 21003 PERINATAL AND PEDIATRIC RESPIRATORY THERAPY 2

Credit Hours

An intense study of assessing, providing, and evaluating neonatal and pediatric respiratory care. Topics include: assessment of growth and development from conception to delivery, resuscitation, persistent illness, therapeutic interventions, and managing mechanical ventilation.

Prerequisite: RTT 11001 or AHS 12000 with a minimum grade of C; and minimum C grade in RTT 11002 and RTT 11004 and RTT 11008.

Schedule Type: Combined Lecture and Lab

Contact Hours: 1.5 lecture, 1.5 lab

Grade Mode: Standard Letter

RTT 21004 ADVANCED DIAGNOSTICS 3 Credit Hours

Provides knowledge and skills necessary to work effectively in a pulmonary function laboratory. Topics include: spirometry, testing standards and techniques, equipment set up and utilization, analyzing test results and applying them in the clinical setting.

Prerequisite: RTT 11003 and RTT 11008 with a minimum C grade.

Schedule Type: Laboratory, Lecture

Contact Hours: 2 lecture, 1 lab

Grade Mode: Standard Letter

**RTT 21005 PULMONARY REHABILITATION AND CONTINUING CARE
2 Credit Hours**

Roles and functions of respiratory therapists in cardiopulmonary rehabilitation and home care.

Prerequisite: RTT 21001 with a minimum C grade.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

**RTT 21006 PULMONARY REHABILITATION AND CONTINUING CARE
1 Credit Hour**

Roles and functions of respiratory therapists in cardiopulmonary rehabilitation and home care.

Prerequisite: RTT 21001 with a minimum C grade.

Schedule Type: Lecture

Contact Hours: 1 lecture

Grade Mode: Standard Letter

RTT 21010 RESPIRATORY THERAPY CAPSTONE COURSE 3 Credit Hours

Contemporary issues and trends in respiratory care; preparation for the CRT and RRT credentialing examinations; obtaining employment after graduation. There is a laboratory and clinical component.

Prerequisite: RTT 21000 with a minimum C grade.

Schedule Type: Clinical Laboratory, Laboratory, Lecture

Contact Hours: 1 lecture, 3 lab, 16 other

Grade Mode: Standard Letter

**RTT 21012 BASIC RESEARCH DEVELOPMENT AND ANALYSIS 2
Credit Hours**

Survey of research problems, methods, and designs utilized in respiratory care with a focus on developing analytical and critiquing skills.

Prerequisite: RTT 21000 with a minimum C grade.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

RTT 21013 RESPIRATORY THERAPY CAPSTONE 2 Credit Hours

Contemporary issues and trends in respiratory care# preparation for the CRT and RRT credentialing examinations# obtaining employment after graduation.

Prerequisite: Minimum C (2.000) grade in RTT 21000.

Schedule Type: Clinical Laboratory, Laboratory, Lecture

Contact Hours: 1 lecture, 1 lab, 16 other

Grade Mode: Standard Letter

RTT 21095 SPECIAL TOPICS IN RESPIRATORY THERAPY 1-3 Credit Hours

(Repeatable for credit) Scheduled topics of interest to students and faculty.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 1-3 lecture

Grade Mode: Standard Letter

**RTT 21096 INDIVIDUAL INVESTIGATION IN RESPIRATORY THERAPY
1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Readings and/or investigation of respiratory therapy topics supervised by respiratory therapy faculty.

Prerequisite: Respiratory therapy technology majors.

Schedule Type: Individual Investigation

Contact Hours: 1-3 other

Grade Mode: Satisfactory/Unsatisfactory