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: Lecture, Clinic, Laboratory, Lecture
Contact Hours: 4 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 grade of C (2.000).
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 grade of C (2.000).
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: respiratory therapy technology (RTT) major and admitted to technical study.
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, 11003; all with a minimum grade of C (2.000).
Schedule Type: Clinic, 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: respiratory therapy technology (RTT) major and admitted to technical study.
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 grade of C (2.000).
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 21003 with a minimum grade of C (2.000).
Schedule Type: Clinic, 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: RTT 11001 or AHS 12000; RTT 11002; RTT 11004; RTT 11008; BSCI 11010 and BSCI 11020 or BSCI 21010 and BSCI 21020; PHY 12111 or PHY 13001; CHEM 10050 or CHEM 10055 or CHEM 10060; ENG 11011 or ENG 21011 or HONR 10197 or HONR 10297; all with a minimum grade of C (2.000).
Schedule Type: Clinic, 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 (2.000); and RTT 11002 and RTT 11004 and RTT 11008 all with a minimum grade of C (2.000).
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 11008 with a minimum grade of C (2.000).
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 grade of C (2).
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 grade of C (2.000).
Schedule Type: Clinic, 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 grade of C (2.000).
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: RTT 21000 with a minimum C grade.
Schedule Type: Clinic, 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 (RTT) majors.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory