

Respiratory Therapy

RT 101

Fundamentals of Respiratory Care I [RE] • 6.0 Credits

This course introduces the foundations of respiratory care, focusing on the role of respiratory therapists, basic cardiopulmonary anatomy and physiology, and introductory therapeutic and diagnostic procedures. Emphasis is placed on evidence-based practice and the principles of patient-centered care. **Prerequisite: Acceptance into CBC's Respiratory Therapy program.**

RT 102

Cardiopulmonary Anatomy & Physiology [RE] • 3.0 Credits

This course offers an in-depth study of the structure and function of the cardiopulmonary system. Topics include the respiratory and circulatory systems, gas exchange mechanisms, and the regulatory aspects of breathing and circulation. **Prerequisite: Acceptance into CBC's Respiratory Therapy program.**

RT 103

Electrocardiography [RE] • 1.0 Credit

An introduction to electrocardiography, this course covers the basics of ECG technique and interpretation. Students will learn to recognize normal and abnormal heart rhythms and understand their clinical significance. **Prerequisite: Acceptance into CBC's Respiratory Therapy program.**

RT 104

Fundamentals of Respiratory Care II [RE] • 5.0 Credits

Continuing from RT 101, this course delves into advanced respiratory care techniques, including mechanical ventilation, patient assessment, and management of acute respiratory conditions. Emphasis on integrating clinical decision-making with theoretical knowledge. **Prerequisite: Completion of RT 101, RT 111, RT 102, RT 103, and RT 113 with a 2.0 grade or better.**

RT 105

Respiratory Therapy Pharmacology [RE] • 5.0 Credits

This course explores pharmacological agents in respiratory care, including bronchodilators, corticosteroids, and anti-infectives. Emphasis on pharmacodynamics, dosing, side effects, and clinical application in respiratory disorders. **Prerequisite: Completion of RT 101, RT 111, RT 102, RT 103, and RT 113 with a 2.0 grade or better.**

RT 106

Advanced Cardiovascular Life Support [RE] • 1.0 Credit

An overview of advanced cardiovascular life support (ACLS), this course introduces students to the protocols and practices for managing cardiopulmonary emergencies, including algorithm-based patient care and teamwork. **Prerequisite: Completion of RT 101, RT 111, RT 102, RT 103, and RT 113 with a 2.0 grade or better.**

RT 107

Fundamentals of Respiratory Care III [RE] • 5.0 Credits

Building on previous courses, this class addresses complex respiratory care practices, focusing on critical care, advanced patient management strategies, and ethical considerations in respiratory therapy. **Prerequisite: Completion of RT 104, RT 114, RT 105, and RT 106 with a 2.0 grade or better.**

RT 108

Advanced Respiratory Pathophysiology [RE] • 5.0 Credits

An in-depth exploration of respiratory pathophysiology, this course examines the underlying mechanisms and clinical manifestations of various pulmonary diseases, emphasizing their impact on respiratory

function and patient care. **Prerequisite: Completion of RT 104, RT 114, RT 105, and RT 106 with a 2.0 grade or better.**

RT 111

Fundamentals of Respiratory Care I Lab [RE] • 3.0 Credits

A practical laboratory complementing RT 101, this course provides hands-on experience with basic respiratory care equipment and procedures. Students will engage in simulations that reinforce theoretical concepts, focusing on proper equipment use and patient care techniques. **Prerequisite: Acceptance into CBC's Respiratory Therapy program.**

RT 113

Electrocardiography Lab [RE] • 1.0 Credit

Complementing RT 103, this lab focuses on hands-on ECG acquisition and analysis. Students will practice correct lead placement, ECG interpretation, and troubleshooting common ECG acquisition problems. **Prerequisite: Acceptance into CBC's Respiratory Therapy program.**

RT 114

Fundamentals of Respiratory Care II Lab [RE] • 3.0 Credits

A hands-on lab experience complementing RT 104. Focuses on advanced respiratory care procedures, mechanical ventilation setups, and patient management simulations, enhancing technical and decision-making skills. **Prerequisite: Completion of RT 101, RT 111, RT 102, RT 103, and RT 113 with a 2.0 grade or better.**

RT 117

Fundamentals of Respiratory Care III Lab [RE] • 4.0 Credits

An advanced laboratory course that reinforces and expands on the concepts from RT 107. Students engage in simulated critical care scenarios, mastering advanced respiratory care techniques and patient management strategies. **Prerequisite: Completion of RT 104, RT 114, RT 105, and RT 106 with a 2.0 grade or better.**

RT 201

Fundamentals of Respiratory Care IV [RE] • 4.0 Credits

This course focuses on specialized areas of respiratory care, including pediatric and neonatal care, advanced diagnostic techniques, and the latest trends in respiratory therapy. **Prerequisite: Completion of RT 107, RT 117, and RT 108 with a 2.0 grade or better.**

RT 203

Fundamentals of Respiratory Care V [RE] • 4.0 Credits

This advanced course covers comprehensive respiratory care in various clinical settings, including critical care, long-term care, and rehabilitation. Focus on patient assessment, advanced therapeutic techniques, and interprofessional collaboration. **Prerequisite: Completion of RT 201, RT 211, and RT 222 with a 2.0 grade or better.**

RT 205

Professional Credentialing Preparation [RE] • 4.0 Credits

This course prepares students for professional credentialing exams in respiratory care. It includes comprehensive review sessions, practice exams, and strategies for successful test-taking, covering all major aspects of respiratory therapy. **Prerequisite: Completion of RT 203, RT 213, and RT 224 with a 2.0 grade or better.**

RT 211

Fundamentals of Respiratory Care IV Lab [RE] • 2.0 Credits

This lab course provides practical experience in specialties including pediatric and neonatal respiratory care techniques, along with advanced diagnostic procedures in respiratory therapy. **Prerequisite: Completion of RT 107, RT 117, and RT 108 with a 2.0 grade or better.**

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RT 213

Fundamentals of Respiratory Care V Lab [RE] • 2.0 Credits

This lab complements RT 203, offering hands-on experience with advanced respiratory care equipment and techniques in diverse clinical scenarios. **Prerequisite: Completion of RT 201, RT 211, and RT 222 with a 2.0 grade or better.**

RT 215

Respiratory Therapy Capstone [RE] • 3.0 Credits

Serving as the culmination of the respiratory therapy program, this course requires students to develop and complete a research project or clinical case study. The project demonstrates their mastery of respiratory care principles and their ability to apply knowledge to real-world situations. **Prerequisite: Completion of RT 203, RT 213, and RT 224 with a 2.0 grade or better.**

RT 222

Respiratory Therapy Clinical I [RE] • 8.0 Credits

The first clinical practicum, offering immersive experience in real-world respiratory care settings. Emphasis on applying theoretical knowledge to patient care, diagnostic procedures, and therapeutic interventions. **Prerequisite: Completion of RT 107, RT 117, and RT 108 with a 2.0 grade or better.**

RT 224

Respiratory Therapy Clinical II [RE] • 8.0 Credits

A continuation of the clinical series, this course provides advanced clinical experiences in respiratory care. Students will engage in patient management in diverse settings, focusing on critical care scenarios and advanced respiratory support techniques. **Prerequisite: Completion of RT 201, RT 211, and RT 222 with a 2.0 grade or better.**

RT 226

Respiratory Therapy Clinical III [RE] • 8.0 Credits

The final clinical practicum in the series, this course offers students in-depth, hands-on experiences in specialized areas of respiratory care. Emphasis is on integrating all learned skills and knowledge in the management of complex respiratory cases in various clinical settings. **Prerequisite: Completion of RT 203, RT 213, and RT 224 with a 2.0 grade or better.**