

# RESPIRATORY CARE (RCT)

All RCT courses numbered 100 and above may be applied to the major field and elective requirement for the Associate in Arts and Associate in Science degrees.

## **RCT 101 Introduction to Respiratory Care (3) 3,0**

This course introduces the Respiratory Care profession. Topics covered include the history of Respiratory Care as well as roles, responsibilities, and opportunities. Governing agencies, basic science and math, professionalism, cultural diversity, ethics, and emergency preparedness is covered as well. (1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$405 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Admission to the Respiratory Care program. Concurrent enrollment in RCT 110, RCT 120, RCT 130.

**Semester(s) Offered:** Fall

## **RCT 110 Cardiopulmonary Anatomy & Physiology (3) 3,0**

This course examines the cardiopulmonary anatomy and physiology as related to clinical practice. Ventilation, circulation, blood gas transport and acid-base balance are covered. (1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$405 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Admission into the Respiratory Care Program and concurrent enrollment in RCT 101, RCT 120, and RCT 130.

**Semester(s) Offered:** Fall

## **RCT 120 Patient Assessment (3) 3,0**

This course examines gathering information from the medical record, performing a patient interview, as well as performing a physical exam. Viewing radiological and laboratory results are included. Discussion will take place on how this data is brought together to arrive at respiratory conditions as well as patient response to therapy. Charting expectations and orientation to charting software will be discussed. (1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$405 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Admission into the Respiratory Care program and concurrent enrollment in RCT 101, RCT 110, and RCT 130

**Semester(s) Offered:** Fall

## **RCT 130 Respiratory Care Procedures I (5) 4,2**

This course provides classroom instruction and laboratory practice for various general respiratory care procedures such as patient assessment equipment, oxygen therapy, humidity, and aerosol therapy as well as hyperinflation therapy. Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$725 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Admission into the Respiratory Care program. And concurrent enrollment in RCT 101, RCT 110, RCT 120

**Semester(s) Offered:** Fall

## **RCT 140 Respiratory Care Pharmacology (3) 3,0**

This course discusses general principles of pharmacology and specific medications for acute and chronic illness. Bronchodilators, microkinetic, inhaled antibiotics, inhaled anti-inflammatories are pulmonary medication categories that will be covered. (1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$405 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Grade of C or better in RCT 101, RCT 110, RCT 102, RCT 130 and concurrent enrollment in RCT 150, RCT 160, RCT 170

**Semester(s) Offered:** Spring

## **RCT 150 Cardiopulmonary Diseases (3) 3,0**

This course discusses etiology, diagnosis, pathophysiology, symptoms, and treatment of various pulmonary and related diseases. (1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$405 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Grade of C or better in RCT 101, RCT 110, RCT 120, RCT 130 and concurrent enrollment in RCT 140, RCT 160, RCT 170

**Semester(s) Offered:** Spring

## **RCT 160 Respiratory Care Procedures II (4) 3,2**

Continuation of general respiratory care procedures such as inhaled medication delivery, secretion mobilization, airway clearance, and airway management will be discussed. (1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$590 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Grade of C or better in RCT 101, RCT 110, RCT 120, RCT 130 and concurrent enrollment in RCT 140, RCT 150, RCT 170.

**Semester(s) Offered:** Spring

**RCT 170 Clinical Practice I (3) 0,15**

This course provides clinical experience at an affiliated hospital under the direct supervision of a clinical preceptor. Emphasis is placed on general respiratory care procedures. (1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$405 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Grade of C or better in RCT 101, RCT 110, RCT 120, RCT 130 and concurrent enrollment in RCT 140, RCT 150, RCT 160.

**Semester(s) Offered:** Spring

**RCT 180 Respiratory Diagnostic Testing & Rehab (3) 2,2**

Students will be introduced to various diagnostic testing such as Pulmonary Function testing, stress testing, and electrocardiograms. Obtaining arterial blood gases and pulmonary rehabilitation will be discussed. These will be discussed in lecture and then practiced in the lab setting. (1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$405 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Grade of C or better in RCT 170 and concurrent enrollment in RCT 190.

**Semester(s) Offered:** Summer

**RCT 190 Respiratory Care Procedures III (3) 2,2**

Mechanical ventilation topics such as modes of ventilation, indications, hazards, weaning, and care of the patient will be discussed in lecture and practiced in the lab setting. (1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$405 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Grade of C or better in RCT 170 and concurrent enrollment in RCT 180

**Semester(s) Offered:** Summer

**RCT 210 Neonatal & Pediatric Care (2) 2,0**

Anatomy and physiology with an emphasis on patients with cardiopulmonary disorders will be discussed. Management of patients who require mechanical ventilation and high frequency oscillation will also be addressed. NRP & PALS certificate will be obtained. (1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$270 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Grade of C or better in RCT 180 and RCT 190 and concurrent enrollment in RCT 220, RCT 230.

**Semester(s) Offered:** Fall

**RCT 220 Respiratory Care Procedures IV (4) 3,2**

Students will expand concepts and apply to mechanical ventilation and procedures in the critical care setting. Topics such as management of unconventional modes of ventilation, hemodynamics, graphics interpretation, and specialty medical gases will be covered. Students will learn intubation techniques and carbon dioxide measurement and interpretation. Specialty care areas will be discussed such as Sleep lab and home care.(1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$540 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Grade of C or better in RCT 180, RCT 190 and concurrent enrollment in RCT 210, RCT 230.

**Semester(s) Offered:** Fall

**RCT 230 Clinical Practice II (3) 0,15**

This course provides clinical experience at an affiliated hospital under the direct supervision of a clinical preceptor. Observation, practice, and evaluation of advanced respiratory care skills will take place in the critical care setting. Advanced patient assessment will be included. (1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$405 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Grade of C or better in RCT 180, RCT 190 and concurrent enrollment in RCT 210, RCT 220.

**Semester(s) Offered:** Fall

**RCT 240 Respiratory Care Capstone (3) 3,0**

Students will prepare for the National Board for Respiratory Care (NBRC) Therapist Multiple Choice Exam through discussion, case studies, computer software, and mock examinations. Advanced Cardiac Life Support Certification will take place as well.(1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$405 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Grade of C or better in RCT 210, RCT 220, RCT 230 and concurrent enrollment in RCT 250.

**Semester(s) Offered:** Spring

**RCT 250 Clinical Practice III (3) 0,15**

This course provides clinical experience at an affiliated hospital under the direct supervision of a clinical preceptor. Further completion of critical care skills will take place as well as specialty care rotations.(1.2) Proficiency Credit Not Available Pass/No Credit Not Available.

**In-District Tuition/Fees:** \$405 (effective 2024/25 academic year)

**In-district tuition rates are subject to change based on Board approval.**

**Prerequisite:** Grade of C or better in RCT 210, RCT 220, RCT 230 and concurrent enrollment in RCT 240.

**Semester(s) Offered:** Spring