

# RESPIRATORY CARE

## Programs

- Respiratory Care Associate in Applied Science (<https://catalog.gvltec.edu/school-health-sciences/respiratory-care/respiratory-care-aas/>)

## Courses

### RES 101 Introduction to Respiratory Care (3-0-3)

*Offered Fall Semester*

Co-requisites: RES 121, RES 246

This course includes introduction topics pertinent to entering the respiratory care profession (i.e., medical terminology, ethical issues and legal issues).

### RES 111 Pathophysiology (2-0-2)

*Offered Spring Semester*

Prerequisites: RES 101, RES 121, RES 246

This course is a study of the general principles and analyses of normal and diseased states. Its focus is on the cardiac and pulmonary systems.

### RES 121 Respiratory Skills I (2-6-4)

*Offered Fall Semester*

Co-requisites: RES 101, RES 246

This course includes a study of basic respiratory therapy procedures and their administration.

### RES 131 Respiratory Skills II (3-3-4)

*Offered Spring Semester*

Prerequisites: RES 101, RES 121, RES 246

Co-requisites: RES 111

This course is a study of selected respiratory care procedures and applications. This will include an introduction to mechanical ventilation.

### RES 141 Respiratory Skills III (2-3-3)

*Offered Summer Semester*

Prerequisite: RES 131

This course covers mechanical ventilation systems, pediatrics and associated monitors.

### RES 152 Clinical Applications II (0-9-3)

*Offered Fall Semester*

Co-requisites: RES 101, RES 121, RES 246

This course includes practice of respiratory care procedures in the hospital setting. The course also includes infection control, back and fire safety, HIPPA and communication skills.

### RES 154 Clinical Applications II (0-12-4)

*Offered Spring Semester*

Prerequisite: RES 152

This course includes practice of respiratory care procedures in the hospital setting. This course also includes instruction of basic respiratory care skills and procedures including chest X-ray review, basic airway management, arterial blood gas interpretation, bronchial hygiene and patient monitoring equipment.

### RES 204 Neonatal/Pediatric Care (3-0-3)

*Offered Fall Semester*

Prerequisite: RES 131

Co-requisite: RES 244

This course focuses on cardiopulmonary physiology, pathology and management of the newborn and pediatric patient.

### RES 207 Management in Respiratory Care (2-0-2)

*Offered Spring Semester*

Co-requisite: RES 249

This course is a study of health care management, emphasizing the importance of good planning, decision-making and organizational skills as they relate to respiratory care.

### RES 232 Respiratory Therapeutics (2-0-2)

*Offered Spring Semester*

Prerequisites: RES 101, RES 121, RES 246

This course is a study of specialty areas in respiratory care including rehabilitation. It also includes home care techniques and pulmonary function testing.

### RES 236 Cardiopulmonary Diagnostics (3-0-3)

*Offered Summer Semester*

Co-requisites: RES 141, RES 265

This course focuses on the purpose, use and evaluation of equipment/procedures used in the diagnosis and therapeutic management of patients with cardiopulmonary disease. This will include hemodynamic monitoring and other invasive and non-invasive procedures.

### RES 241 Respiratory Care Transition (0-3-1)

*Offered Summer Semester*

Prerequisites: RES 121, RES 131

This course provides a comprehensive review of respiratory care.

### RES 242 Advanced Respiratory Care Transition (0-3-1)

*Offered Fall Semester*

Prerequisite: RES 141

This course provides a comprehensive review of advanced respiratory care.

### RES 244 Advanced Respiratory Skills I (4-0-4)

*Offered Fall Semester*

Prerequisites: RES 141, RES 265

This course includes an in-depth study of mechanical ventilation and considerations for management of the critical care patient. This course will focus on research and emerging emergency technology.

### RES 246 Respiratory Pharmacology (2-0-2)

*Offered Fall Semester*

Co-requisites: RES 101, RES 121

This course includes a study of pharmacologic agents used in cardiopulmonary care. It also will include cardiac agents, diuretics and related medications.

### RES 249 Comprehensive Applications (0-6-2)

*Offered Spring Semester*

Prerequisite: RES 242

This course includes integration of didactic and clinical training in respiratory care technology.

### RES 251 Clinical Applications III (0-24-8)

*Offered Spring Semester*

Prerequisite: RES 275

This course includes rotations in all areas of patient care with a primary emphasis on intensive care.

### RES 265 Advanced Clinical Applications I (0-9-3)

*Offered Summer Semester*

Prerequisite: RES 154

This course includes advanced clinical training in respiratory care.

**RES 275 Advanced Clinical Practice (0-15-5)**

*Offered Fall Semester*

Prerequisites: RES 131, RES 141, RES 265

This course includes clinical practice in advanced patient care procedures.