

# RESPIRATORY THERAPY (515)

## 515-111 - Respiratory Survey

Examines the role of the Respiratory Therapist within the healthcare community. Reviews the ethical, legal, and regulatory principles that guide practice across diverse populations. Introductory patient assessment and critical thinking processes used in the development of respiratory care plans are explored. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. (Prerequisites: Completion of or concurrent enrollment in 890-101 College 101.

Acceptance in the Respiratory Therapist program. Corequisite: 515-171 Respiratory Therapeutics 1)

3 Credit hours

36 Lecture hours

36 Lab hours

## 515-112 - Respiratory Airway Management

Provides a comprehensive exploration of airway management concepts and skills. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. (Prerequisites: 515-171 Respiratory Therapeutics 1; 806-177 General Anatomy and Physiology. Completion of or concurrent enrollment in 103-159 Computer Literacy – Microsoft Office. Corequisites: 515-172 Respiratory Therapeutics 2; 515-173 Respiratory Pharmacology; 515-174 Respiratory and Cardiac Physiology)

2 Credit hours

18 Lecture hours

36 Lab hours

## 515-113 - Respiratory Life Support

Focuses on management of adult ventilatory support. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. (Prerequisites: 515-112 Respiratory Airway Management; 515-172 Respiratory Therapeutics 2; 515-174 Respiratory and Cardiac Physiology; 515-175 Respiratory Clinical 1. Corequisites: 515-176 Respiratory Disease; 515-178 Respiratory Clinical 2; 515-179 Respiratory Clinical 3)

3 Credit hours

18 Lecture hours

72 Lab hours

## 515-171 - Respiratory Therapeutics 1

Introduces the topics of medical gas administration and humidity and aerosol therapy. The student will apply physics, math and patient assessment concepts to oxygen, aerosol and humidity therapy. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. (Prerequisite: 806-177 General Anatomy and Physiology. Corequisite: 515-111 Respiratory Survey)

3 Credit hours

36 Lecture hours

36 Lab hours

## 515-172 - Respiratory Therapeutics 2

Introduces therapeutic procedures including arterial puncture, bronchial hygiene, lung expansion therapy, and pulmonary rehabilitation. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. (Prerequisite: 515-171 Respiratory Therapeutics 1.

Corequisites: 515-112 Respiratory Airway Management; 515-173 Respiratory Pharmacology; 515-174 Respiratory and Cardiac Physiology)

3 Credit hours

36 Lecture hours

36 Lab hours

## 515-173 - Respiratory Pharmacology

Examines basic pharmacology principles, drug dosage, and calculations. Medications for inhalation including mucolytics, bronchodilators, and anti-inflammatories. Also includes cardiac drugs, anesthetic drugs, neuromuscular blockers, and antimicrobials. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. (Prerequisites: 515-111 Respiratory Survey; 515-171 Respiratory Therapeutics 1; 806-177 General Anatomy and Physiology. Corequisites: 515-112 Respiratory Airway Management; 515-172 Respiratory Therapeutics 2; 515-174 Respiratory and Cardiac Physiology)

3 Credit hours

54 Lecture hours

## 515-174 - Respiratory and Cardiac Physiology

Provides the student with an indepth knowledge of the structure and function of the respiratory and circulatory systems necessary to function as a competent Respiratory Therapist. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. (Prerequisites: 515-171 Respiratory Therapeutics 1; 806-177 General Anatomy and Physiology. Corequisites: 515-112 Respiratory Airway Management; 515-172 Respiratory Therapeutics 2; 515-173 Respiratory Pharmacology)

3 Credit hours

54 Lecture hours

## 515-175 - Respiratory Clinical 1

Introduces Respiratory Therapy practice in the hospital setting. Includes the development of skills such as basic therapeutics, patient assessment, medical record review, safety practices, patient interaction, and communication. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. This course includes the complete program competency list. At the completion of this clinical students must demonstrate competence in a minimum of 5 (required and/or simulated) competencies. The instructor may identify specific competencies to be addressed during this clinical. (Prerequisites: 515-111 Respiratory Survey; 515-171 Respiratory Therapeutics 1; 515-172 Respiratory Therapeutics 2. Completion of or concurrent enrollment in 501-101 Medical Terminology. Criminal Background Check and Health Requirement Verification required; current certification in CPR for the Healthcare Provider)

2 Credit hours

144 Other hours

**515-176 - Respiratory Disease**

Exploration of signs, symptoms, causes, progression, and treatment of diseases or disorders of the body that affect the respiratory cardiopulmonary system. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. (Prerequisites: 515-111 Respiratory Survey; 515-112 Respiratory Airway Management; 515-173 Respiratory Pharmacology; 515-174 Respiratory and Cardiac Physiology; 806-177 General Anatomy and Physiology. Corequisites: 515-113 Respiratory Life Support; 515-178 Respiratory Clinical 2; 515-179 Respiratory Clinical 3)  
 3 Credit hours  
 54 Lecture hours

**515-178 - Respiratory Clinical 2**

Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. This course includes the complete program competency list. At the completion of this clinical students must demonstrate competence in a minimum of 12 (required and/or simulated) competencies (cumulative through all clinical courses). The instructor may identify specific competencies to be addressed during this clinical. Note: Competencies with an R are required, competencies with an S are required, but may be simulated, competencies with an O are optional. (Prerequisite: 515-175 Respiratory Clinical 1. Corequisites: 515-113 Respiratory Life Support; 515-176 Respiratory Disease; 515-179 Respiratory Clinical 3. Criminal Background Check and Health Requirement Verification required; current certification in CPR for the healthcare provider)  
 3 Credit hours  
 216 Other hours

**515-179 - Respiratory Clinical 3**

Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. This course includes the complete program competency list. At the completion of this clinical students must demonstrate competence in a minimum of 19 (required and/or simulated) competencies (cumulative through all clinical courses). The instructor may identify specific competencies to be addressed during this clinical. Note: Competencies with an R are required, competencies with an S are required, but may be simulated, competencies with an O are optional. (Corequisites: 515-113 Respiratory Life Support; 515-176 Respiratory Disease 515-178 Respiratory Clinical 2. Criminal Background Check and Health Requirement Verification required; current certification in CPR for the healthcare provider)  
 3 Credit hours  
 216 Other hours

**515-180 - Respiratory Neonatal and Pediatric Care**

Provides a comprehensive orientation to the field of neonatal and pediatric respiratory care to include fetal development, birth, neonatal physiology, pulmonary dynamics, abnormal cardiopulmonary conditions, diseases, noninvasive and invasive therapeutic interventions. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. (Prerequisite: 515-113 Respiratory Life Support. Corequisites: 515-181 Respiratory and Cardio Diagnostics; 515-182 Respiratory Clinical 4; 515-183 Respiratory Clinical 5)  
 2 Credit hours  
 18 Lecture hours  
 36 Lab hours

**515-181 - Respiratory and Cardio Diagnostics**

Focuses on advanced invasive and noninvasive diagnostic cardiopulmonary procedures including pulmonary function, hemodynamics and rescue medicine. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. (Prerequisites: 515-173 Respiratory Pharmacology; 515-176 Respiratory Disease; 515-113 Respiratory Life Support. Corequisites: 515-180 Respiratory Neonatal and Pediatric Care; 515-182 Respiratory Clinical 4; 515-183 Respiratory Clinical 5. Student also needs to take 531-409 ACLS-recognition course)  
 3 Credit hours  
 36 Lecture hours  
 36 Lab hours

**515-182 - Respiratory Clinical 4**

Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. This course includes the complete program competency list. At the completion of this clinical students must demonstrate competence in a minimum of 26 (required and/or simulated) competencies (cumulative through all clinical courses). The instructor may identify specific competencies to be addressed during this clinical. Note: Competencies with an R are required, competencies with an S are required, but may be simulated, competencies with an O are optional. (Prerequisites: 515-113 Respiratory Life Support; 515-179 Respiratory Clinical 3. Corequisites: 515-180 Respiratory Neonatal and Pediatric Care; 515-181 Respiratory and Cardio Diagnostics; 515-183 Respiratory Clinical 5. Criminal Background Check and Health Requirement Verification required; current certification in CPR for the healthcare provider)  
 3 Credit hours  
 216 Other hours

**515-183 - Respiratory Clinical 5**

Focuses on the completion of respiratory therapy competencies and transition to employment. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. This course includes the complete program competency list. At the completion of this clinical students must demonstrate competence in all of the required and required/simulated) competencies. The instructor may identify specific competencies to be addressed during this clinical. Note: Competencies with an R are required, competencies with an S are required, but may be simulated, competencies with an O are optional. (Corequisites: 515-180 Respiratory Neonatal and Pediatric Care; 515-181 Respiratory and Cardio Diagnostics; 515-182 Respiratory Clinical 4. Criminal Background Check and Health Requirement Verification required; current certification in CPR for the healthcare provider)

3 Credit hours

216 Other hours