

# RESPIRATORY CARE (RSP)

 - General Education Course

## **RSP 100 Respiratory Pharmacology** **3 Credit hours**

Introduces the student to basic pharmacology of medicines used in respiratory care and physiological implications on the human body.

**Pre-req:** BSC 227 (may be taken concurrently) and BSC 228 and BSC 250 and RSP 101 and RSP 102 and RSP 102L.

**Concurrent PR:** BSC 227

**Co-req:** RSP 201, RSP 202, RSP 203

**Grade Mode:** Normal Grading Mode

## **RSP 101 Intro to Respiratory Care** **3 Credit hours**

Introduces the student to the history of respiratory care and professional organizations. Emphasis is on the role of the respiratory therapist as a member of the health care team.

**Pre-req:** BSC 227 and BSC 228.

**Co-req:** RSP 102, RSP 102L

**Grade Mode:** Normal Grading Mode

## **RSP 102 Intro Resp Care Procedures** **3 Credit hours**

Administration of medical gases, humidity and aerosol therapy with emphasis on the handling of medical gases and safety in administration. Techniques of therapeutic procedures used in respiratory care are included.

**Pre-req:** BSC 227 and BSC 228.

**Co-req:** RSP 101, RSP 102L

**Grade Mode:** Normal Grading Mode

## **RSP 102L Respiratory Lab** **1 Credit hour**

Administration of medical gases, humidity and aerosol therapy with emphasis on the handling of medical gases and safety in administration. Techniques of therapeutic procedures used in respiratory care are included.

**Pre-req:** BSC 227 and BSC 228.

**Co-req:** RSP 101, RSP 102

**Grade Mode:** Normal Grading Mode

## **RSP 200B Concepts of Respiratory Care** **5 Credit hours**

Designed for the board certified and state licensed CRT to enter into advanced respiratory practice. Emphasis is on concepts and principles for professional practice as an RRT.

**Grade Mode:** Normal Grading Mode

## **RSP 201 Pulmonary Pathophys** **3 Credit hours**

Emphasis is placed on the etiology, signs and symptoms, pathology, clinical manifestations, sequellae, and treatment. The respiratory therapist's role in the recognition and treatment of pulmonary diseases is highlighted.

**Pre-req:** BSC 227 and BSC 228 and BSC 250 and RSP 101 and RSP 102 and RSP 102L.

**Co-req:** RSP 100, RSP 202, RSP 203

**Grade Mode:** Normal Grading Mode

## **RSP 202 Mech Vent Tech & MGT** **3 Credit hours**

An introduction to the fundamentals of mechanical ventilation techniques and terminology. Monitoring and the ability to solve clinical problems relating to mechanical ventilation are emphasized. Lab included.

**Pre-req:** BSC 227 and BSC 228 and BSC 250 and RSP 101 and RSP 102 and RSP 102L.

**Co-req:** RSP 100, RSP 201, RSP 203

**Grade Mode:** Normal Grading Mode

## **RSP 203 Respiratory Internship I** **4 Credit hours**

Emphasis is on information gathering from the patient record, physical evaluation of the patient and basic respiratory interventions.

**Pre-req:** BSC 227 and BSC 228 and BSC 250 and RSP 101 and RSP 102 and RSP 102L.

**Co-req:** RSP 100, RSP 201, RSP 202

**Grade Mode:** Normal Grading Mode

## **RSP 204 Pulmonary Rehab/Home Care** **1 Credit hour**

Emphasis on the care of the patient with long term pulmonary disability requiring home care. Psychosocial and physical needs are addressed with emphasis of quality of life and cardiopulmonary reserve.

**Pre-req:** RSP 203.

**Co-req:** RSP 205, RSP 206, RSP 207, RSP 208, RSP 209

**Grade Mode:** Normal Grading Mode

## **RSP 205 Cardiopulmonary Diag** **3 Credit hours**

Emphasis on advanced techniques of pulmonary function testing. Topics include lung volume determination, diffusion/distribution of ventilation, invasive and non invasive methods of arterial blood gas sampling, analysis, and interpretation.

**Pre-req:** RSP 203.

**Co-req:** RSP 206, RSP 207

**Grade Mode:** Normal Grading Mode

## **RSP 206 Neonatal/Pediatric Care** **3 Credit hours**

Provide knowledge of neonatal/pediatric patients; fetal cardiopulmonary development and changes at birth, care methods used and evaluation of neonatal and pediatric patients are covered.

**Pre-req:** RSP 100 and RSP 201 and RSP 202 and RSP 203.

**Co-req:** RSP 207, RSP 208, RSP 209, RSP 211, RSP 212

**Grade Mode:** Normal Grading Mode

## **RSP 207 Intro Critical Care MGT** **3 Credit hours**

Designed to provide the student with knowledge of airway management, transtracheal oxygen therapy and aspiration, bronchoscopy, thoracentesis, pleural chest tubes, arterial lines, ABG interpretation and analysis, transports, and electrocardiogram interpretation.

**Pre-req:** RSP 100 and RSP 201 and RSP 202 and RSP 203.

**Co-req:** RSP 206, RSP 208, RSP 209, RSP 211, RSP 212

**Grade Mode:** Normal Grading Mode

## **RSP 208 Respiratory Care Seminar** **1 Credit hour**

Introduces the student to NBRC exam taking skills, mock examinations of the NBRC matrix, realistic clinical problems and situations with emphasis on critical thinking and problem solving.

**Pre-req:** RSP 100 and RSP 201 and RSP 202 and RSP 203.

**Co-req:** RSP 206, RSP 207, RSP 209, RSP 211, RSP 212

**Grade Mode:** Normal Grading Mode

- RSP 209 Respiratory Internship II** **4 Credit hours**  
 Emphasis is on supervised practice of humidity and aerosol therapy, aerosol drug therapy, lung inflation therapy and techniques used in electrocardiography.  
**Pre-req:** RSP 100 and RSP 201 and RSP 202 and RSP 203.  
**Co-req:** RSP 206, RSP 207, RSP 208, RSP 211, RSP 212  
**Grade Mode:** Normal Grading Mode
- RSP 210 Respiratory Internship III** **4 Credit hours**  
 Emphasis is on supervised practice of arterial blood gas sampling and analysis, arterial line management, chest tube management, ECGs observation of hemodynamic measurement and monitoring, IABP management.  
**Pre-req:** RSP 100 and RSP 201 and RSP 202 and RSP 203 and RSP 209.  
**Co-req:** RSP 303, RSP 309  
**Grade Mode:** Normal Grading Mode
- RSP 211 Dynamics of Pulmonary** **2 Credit hours**  
 Emphasis is placed on the interaction of systems in gas exchange and renal involvement in acid base balance.  
**Pre-req:** RSP 100 and RSP 201 and RSP 202 and RSP 203.  
**Co-req:** RSP 206, RSP 207, RSP 208, RSP 209, RSP 212  
**Grade Mode:** Normal Grading Mode
- RSP 212 Acute/Chronic Pulmonary Mgt** **3 Credit hours**  
 This is a 3 hour course with emphasis placed on pulmonary function testing/interpretation and care of a patient with long term pulmonary disability requiring home care and rehabilitation.  
**Pre-req:** RSP 100 and RSP 201 and RSP 202 and RSP 203.  
**Co-req:** RSP 206, RSP 207, RSP 208, RSP 209, RSP 211  
**Grade Mode:** Normal Grading Mode
- RSP 301 Intro Resp Care MGT** **3 Credit hours**  
 Introduces the student to the basic principles of management in the respiratory care department. Includes theory, scope of management, quality issues, budgeting, personnel issues, evaluation and application of management concept.  
**Grade Mode:** Normal Grading Mode
- RSP 302 Respiratory Internship IV** **4 Credit hours**  
 Emphasis is on cardiopulmonary assessment and treatment of trauma, post-surgical, cardiac, renal, neonatal and pediatric patients with refinement of monitoring procedures and interpretation of data.  
**Pre-req:** RSP 206 and RSP 207 and RSP 208 and RSP 209 and RSP 211 and RSP 212.  
**Co-req:** RSP 304, RSP 307, RSP 402  
**Grade Mode:** Normal Grading Mode
- RSP 303 Clinical Respiratory Education** **3 Credit hours**  
 Designed as an introduction to clinical teaching in a respiratory care program. Emphasis is on instructional and evaluation strategies and development of performance objectives.  
**Pre-req:** RSP 206 and RSP 207 and RSP 208 and RSP 209 and RSP 211 and RSP 212.  
**Co-req:** RSP 308  
**Grade Mode:** Normal Grading Mode
- RSP 304 Adv Neonatal & Pediatrics** **3 Credit hours**  
 Advanced study of neonatal/pediatric pathophysiology including parenchymal disease, obstructive airway disease, lesions of the lungs and airways, congenital abnormalities, respiratory distress syndrome, apnea disorders, neurological disorders and trauma. (PR: RSP 206)  
**Pre-req:** RSP 303 and RSP 308.  
**Co-req:** RSP 302, RSP 307, RSP 401  
**Grade Mode:** Normal Grading Mode
- RSP 305 Resp Cost MGT & Solutions** **3 Credit hours**  
 Introduces the student to cost solutions for respiratory departments. Topics include annual budgets, purchasing decisions, effective staffing, inventory and supply controls and cost-containment methods.  
**Co-req:** RSP 306  
**Grade Mode:** Normal Grading Mode
- RSP 306 Resp Care Performance Improv** **3 Credit hours**  
 Provides basic principles associated with Total Quality Management (TQM) and Continuous Quality Improvement (CQI) to aid in problem identification and quality problem-solving for respiratory care departments.  
**Co-req:** RSP 305  
**Grade Mode:** Normal Grading Mode
- RSP 307 Adv Tech Adult Critical Care** **4 Credit hours**  
 Emphasis is on current respiratory care procedures for the critically ill adult patient with exploration into newer techniques.  
**Pre-req:** RSP 303 and RSP 308.  
**Co-req:** RSP 302, RSP 304, RSP 401  
**Grade Mode:** Normal Grading Mode
- RSP 308 Resp Mgt & Quality Improvement** **3 Credit hours**  
 This course introduces the student to basic management principles of a respiratory department. Discussion includes, scope of management, quality issues, budgeting, personnel issues, and evaluation and application of management concepts.  
**Pre-req:** RSP 206 and RSP 207 and RSP 208 and RSP 209 and RSP 211 and RSP 212.  
**Co-req:** RSP 210, RSP 303  
**Grade Mode:** Normal Grading Mode
- RSP 314 Adv Mechanical Ventilation** **3 Credit hours**  
 Advanced theory and application of mechanical ventilation. Study of various mechanical ventilators and artificial airways, with major emphasis placed on all aspects of the management of the patient-ventilator system.  
**Pre-req:** RSP 202 with a minimum grade of D.  
**Grade Mode:** Normal Grading Mode
- RSP 401 Intro to Sleep Disorders** **4 Credit hours**  
 Designed to teach how a polysomnogram is performed, the major categories of sleep disorders, the presenting symptoms of sleep apnea, narcolepsy, psychophysiological insomnia and sleep disturbance due to depression.  
**Pre-req:** RSP 303 and RSP 308.  
**Co-req:** RSP 302, RSP 304, RSP 307  
**Grade Mode:** Normal Grading Mode
- RSP 402 Respiratory MGT** **3 Credit hours**  
 Designed to examine respiratory care in rural America. This course will address the key issues confronting rural respiratory healthcare today, examine the causes and develop solutions to the issues.  
**Pre-req:** RSP 302 and RSP 303 and RSP 304 and RSP 307 and RSP 308.  
**Co-req:** RSP 403, RSP 404, RSP 420  
**Grade Mode:** Normal Grading Mode
- RSP 403 Respiratory Care Research** **3 Credit hours**  
 Designed to provide the student knowledge about survey of research problems, methods, and designs utilized in respiratory care, with emphasis on data presentation and analysis.  
**Pre-req:** RSP 302 and RSP 303 and RSP 304 and RSP 307 and RSP 308 and (STA 225 or MGT 218 or PSY 223 or EDF 417 or BSC 417).  
**Co-req:** RSP 402, RSP 404, RSP 420  
**Grade Mode:** Normal Grading Mode

<p><b>RSP 404 Adv Respiratory Care Practicum</b>                      <b>4 Credit hours</b> Advanced respiratory techniques and management for clients across the life-span. <b>Pre-req:</b> RSP 302 and RSP 303 and RSP 304 and RSP 307 and RSP 308 and (STA 225 or MGT 218 or PSY 223 or EDF 417 or BSC 417). <b>Co-req:</b> RSP 402, RSP 403, RSP 420 <b>Grade Mode:</b> Normal Grading Mode</p>	<p><b>RSP 487 Independent Study</b>    <b>1-4 Credit hours</b> Course will consist of directed and independent readings, directed and independent research, problem reports, or tutorials. Will allow students to complete individualized learning in respiratory care. <b>Grade Mode:</b> Normal Grading Mode</p>
<p><b>RSP 405 Flight/Hyperbaric Care</b>                                      <b>3 Credit hours</b> Advanced respiratory techniques related to physiologic stressors impacting patient care due to atmospheric impact and pressure gradients and unique hazards in these environments to patients and staff. <b>Co-req:</b> RSP 420 <b>Grade Mode:</b> Normal Grading Mode</p>	<p><b>RSP 488 Independent Study</b>    <b>1-4 Credit hours</b> Course will consist of directed and independent readings, directed and independent research, problem reports, or tutorials. Will allow students to complete individualized learning in respiratory care. <b>Grade Mode:</b> Normal Grading Mode</p>
<p><b>RSP 406 Community Respiratory Care</b>                              <b>3 Credit hours</b> Designed for the student to provide care in a variety of settings including clinics, schools and other settings utilizing principles of public health and client and family teaching. <b>Grade Mode:</b> Normal Grading Mode</p>	
<p><b>RSP 407 Clinical Decision Making</b>                                      <b>3 Credit hours</b> The course focuses on gathering appropriate clinical information to make evidence-based decisions in the treatment for respiratory care diseases. <b>Pre-req:</b> RSP 201 with a minimum grade of D. <b>Grade Mode:</b> Normal Grading Mode</p>	
<p><b>RSP 420 🌟 Capstone in Respiratory Care</b>                              <b>5 Credit hours</b> Role synthesis practicum incorporating provider of care, coordinator of care, member of profession and leadership roles. <b>Pre-req:</b> RSP 302 and RSP 303 and RSP 307 and RSP 308 and (STA 225 or MGT 218 or PSY 223 or EDF 417 or BSC 417). <b>Co-req:</b> RSP 402, RSP 403, RSP 404 <b>Attributes:</b> Capstone Course <b>Grade Mode:</b> Normal Grading Mode</p>	
<p><b>RSP 480 Special Topics</b>    <b>1-4 Credit hours</b> Study of topics not available in other courses. <b>Grade Mode:</b> Normal Grading Mode</p>	
<p><b>RSP 481 Special Topics</b>    <b>1-4 Credit hours</b> Study of topics not available in other courses. <b>Grade Mode:</b> Normal Grading Mode</p>	
<p><b>RSP 482 Special Topics</b>    <b>1-4 Credit hours</b> Study of topics not available in other courses. <b>Grade Mode:</b> Normal Grading Mode</p>	
<p><b>RSP 483 Special Topics</b>    <b>1-4 Credit hours</b> Study of topics not available in other courses. <b>Grade Mode:</b> Normal Grading Mode</p>	
<p><b>RSP 485 Independent Study</b>    <b>1-4 Credit hours</b> Course will consist of directed and independent readings, directed and independent research, problem reports, or tutorials. Will allow students to complete individualized learning in respiratory care. <b>Grade Mode:</b> Normal Grading Mode</p>	
<p><b>RSP 486 Independent Study</b>    <b>1-4 Credit hours</b> Course will consist of directed and independent readings, directed and independent research, problem reports, or tutorials. Will allow students to complete individualized learning in respiratory care. <b>Grade Mode:</b> Normal Grading Mode</p>	