NorthWest Arkansas Community College Division of Allied Health

Course Number and Title

RESP 2533 Critical Care

<u>Catalog Description</u>

Focuses on special techniques, case studies, and pathological complications associated with the critically ill patient. Advanced Life Support, Pediartic Advanced Life Support, and Neonatal Resuscitation Protocol will also be covered in this course.

Prerequisites

- Anatomy and Physiology I
- Anatomy and Physiology II
- Introduction to Computer Information
- College Algebra OR Math for AAS
- English Composition I
- English Composition II OR Technical Writing
- Medical Terminology
- Microbiology
- General Psychology
- Concepts in Respiratory Care
- Pulmonary Diseases
- Cardiopulmonary A & P
- Cardiopulmonary Diagnostics
- Respiratory Care Sciences
- Equipment and Procedures
- Pharmacology for Respiratory Care
- Assessment and Diagnosis
- Home and Rehabilitative Care
- Clinical Practicum I
- Dysrhythmias for Respiratory Therapists
- Mechanical Ventilation I
- Pediatrics and Perinatology
- Clinical Practicum II

Admission into the Respiratory Therapy Program.

Credit hours/Contact hours/Load hours

3 credit hours 48 contact hours 3 load hours

Target Audience and Transfer

Students admitted into the Respiratory Therapy Program. May transfer to other respiratory therapy programs.

Student Learning Outcomes

- Perform a physical assessment of a critically ill patient.
- Explain the procedures required to act as an assistant to the physician in performing a bronchoscopy, thoracentesis, tracheotomy, cardioversion, and endotrachial intubation.
- Troubleshoot airway emergencies and respond appropriately.
- State normal hemodynamics values
- Discuss cardiogenic vs. non-cardiogenic pulmonary edema.
- Discuss the interdependence of respiration and nutrition.
- Explain the nutritional needs of the cardiopulmonary system.
- Explain the nutritional requirements for metabolism.
- State the methods used to assess nutrition.

Topics

- Respiratory Monitoring in the ICU
- Oxygenation and Oxygen Transport
- Cardiac Output Assessment and Hemodynamics
- Act as an Assistant to the Physician in Performing Special Procedures
- Troubleshooting Airway Emergencies
- Nutritional Assessment of Patients with Respiratory Disease
- Interdependence of Respiration and Nutrition

Forms of Assessment

- Written exam
- Homework
- Research project