NorthWest Arkansas Community College
Division of Allied Health

Course Number and Title

2214 Equipment and Procedures

Catalog Description

This is a laboratory course that is designed to provide the student with an understanding of the function, maintenance, and use of respiratory equipment. Emphasis will be placed on administration of therapeutic gases, humidity and aerosol therapy, lung expansion therapy, and bedside ventilatory therapy

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

Admission into the Respiratory Therapy Program.

Credit hours/Contact hours/Load hours

4 credit hours
64 contact hours
4 load hours

Target Audience and Transfer

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

Student Learning Outcomes

- Explain the therapies / procedures listed under Topics**.**
- Interact on a professional level with the other members of the health care team.
- Explain the rationale, indications and contraindications of the therapy and procedures listed under Topics.
- Explain each procedure in a way that patients can understand the procedure and its purpose**.**
- Review existing patient data or collect additional data for evaluation and to make recommendations in therapies.
- Select the proper equipment, troubleshoot, perform quality control procedures and ensure proper infection control procedures.
- Perform therapeutic procedures under Topics, including initiation and modification of procedures.

Topics

- Infection Control Methods
- Medical gases-manufacture, storage and delivery
- Vital signs
- Oxygen therapy and equipment
- Humidity / aerosol therapy and equipment
- Incentive spirometry and cough
- Pulmonary hygiene and clearance
- Arterial blood gases
- Cardiopulmonary resusitation

Forms of Assessment

- Written examinations
- Homework
- Observation