

**Northwest Arkansas Community College
Health Professions Division
Respiratory Therapy Program Course Outline**

Course Number and Title

RESP 2214 Equipment and Procedures

Catalog Description

This course is intended to emphasize drugs and agents administered by respiratory therapists. Major drug groupings and classifications will be identified with specific effect of particular drugs on the respiratory system. Also discussed will be calculating drug doses, the central and peripheral nervous system, and drugs used in critical care.

Prerequisites

- RESP 2102 Concepts in Respiratory Care
- RESP 2103 Cardiopulmonary Anatomy and Physiology
- RESP 2104 Respiratory Care Sciences
- RESP 2204 Cardiopulmonary Assessments and Diagnostics

Credit Hours/Contact Hours/Load Hours

4 credit hours
64 contact hours
8 load hours

Target Audience and Transfer

Second semester students admitted into the Respiratory Therapy Program.
May transfer to other respiratory therapy programs.

Student Learning Outcomes

- Defend the performance of Respiratory Therapy procedures using correct rationales, indications and contraindications.
- Reinforce each procedure in a way that patients can understand the procedure and its purpose.
- Evaluate existing patient data or collect additional data for evaluation and make recommendations in therapies.
- Choose the proper equipment, troubleshoot, perform quality control procedures and ensure proper infection control procedures.
- Perform therapeutic procedures under correctly, including initiation and modification of procedures.

Topics

- Manufacture, Storage, and Transport of Medical Gases, Administering Medical Gases, Regulators, Flowmeters, and Controlling Devices
- Humidity and Aerosol Therapy
- Lung Expansion Devices
- Airway Management Devices
- Blood Gas Monitoring

Format

Hybrid with Laboratory, Required personal computer with web camera, microphone, internet access, and Microsoft Office applications.

Forms of Assessment

- Written examinations
- Homework
- Participation
- Discussions
- Must obtain a cumulative score of 75.5% to pass the course