

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

Course Number and Title

RESP 2523 Clinical Practicum III

Catalog Description

This course is a continuation of RESP 2423. It provides the student with an opportunity to develop confidence and improve clinical skills in the application of respiratory care while moving toward independent practice. It enables the student to correctly interpret patient data, develop bedside assessment skills, evaluate/recommend/modify therapy modalities, transition to independent practice, and develop professional communication skills applicable to the patient and other members of the health care team.

Prerequisites

- RESP 2102 Concepts in Respiratory Care
- RESP 2103 Cardiopulmonary Anatomy and Physiology
- RESP 2104 Respiratory Care Sciences
- RESP 2204 Cardiopulmonary Assessments and Diagnostics
- RESP 2123 Pulmonary Diseases
- RESP 2214 Equipment and Procedures
- RESP 2222 Pharmacology for Respiratory Care
- RESP 2501 Dysrhythmia for Respiratory Therapists
- RESP 2306 Clinical Practicum I
- RESP 2423 Clinical Practicum II
- RESP 2414 Mechanical Ventilation I
- RESP 2433 Pediatrics and Perinatology
- PSYC 2003 General Psychology

Additional Prerequisite Course Requirements

- Proof of current physical exam
- Clear criminal background check from NWACC approved company
- Clear 10 panel urine drug screen
- Proof of current TB skin test X2
- Varicella Immunization x2 or positive titer
- MMR Immunization x2 or positive titer
- Hepatitis B Immunization x3 or positive titer
- Annual Flu Shot
- TDAP Immunization
- Proof of current CPR certification

- Declaration of medical insurance coverage
- Attendance of classroom lecture on general hospital orientation
- Completion of all required training modules for each clinical affiliate

Credit Hours/Contact Hours/Load Hours

3 credit hours
 336 contact hours
 22.4 load hours

Target Audience and Transfer

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

Student Learning Outcomes

- Recommend and evaluate perscribed therapy according to patient data
- Create evidence based respiratory patient care plans base on patient data
- Perform therapeutic procedures correctly
- Modify therapeutic procedure based on patient response
- Perform the following: correctly assemble, ensure cleanliness, troubleshoot, administer and modify equipment for respiratory therapy procedures
- Communicate each of the therapies/procedures in a way that patients can understand the procedure and its purpose
- Adhere to the American Association for Respiratory Care's ethical standards
- Adhere to rules and regulations established by the:
 - Arkansas State Respiratory Care Practice Act
 - American Association for Respiratory Care Clinical Practice Guidelines
- Interact on a professional level with patients, families, and other members of the health care team
- Develop assessment skills as evidenced by performance on care plans
- Develop healthcare provider communication and teamwork skills as evidenced by daily evaluations
- Develop time management and organizational skills as evidenced by daily evaluations
- Adapt to functioning as part of the healthcare team in the intensive care unit and neonatal/pediatric units as evidenced by daily evaluations
- Manage mechanically ventilated patients: initiating, managing and weaning with assistance from RT staff and working toward indirect supervision by the RT staff as evidenced by competency evaluations competed
- Acquire procedural competency by completing assigned competencies
- Process data and recommend appropriate actions related to actual patient care situations as evidenced by performance on care plans

Topics

- Vital Signs
- Chest Assessment
- Oxygen Therapy
 - Nasal Cannula
 - Simple Mask
 - Air Entrainment Mask
 - Partial Rebreathing Mask
 - Non-rebreathing Mask
- Pulse Oximetry (continuous)
- Transport with Oxygen
- Aerosol and Humidity Therapy
 - Aerosol Face Mask
 - Aerosol Trach Collar
 - Aerosol T-Piece
 - Face Tent
- Aerosol Drug Therapy
 - MDI
 - DPI
 - Small Volume Nebulizer
- Incentive Spirometry
- Bronchial Hygiene
 - CPT
 - Mucous Clearance Adjuncts
 - Coughing
- ABG Sample
- ABG Analysis
- A-line Sampling
- X-Ray Interpretation
- Peak Flow
- Bedside Spirometry
- Cuff Management
- Extubation
- Heat Moisture Exchanger (HME)
- In-Line MDI* and SVN
- In-Line Suction
- Manual Ventilation during Transport
- NIPPV Set-up
- NIPPV Check
- Endotracheal Suction or tracheal suction
- Secure Artificial Airway
- Suctioning (ET, NT, or Trach)
- Tracheostomy Care
- Ventilator Check (Routine)

- Ventilator Graphic Analysis
- Ventilator Set-up
- Ventilator Circuit Change*
- Resuscitation
 - Resuscitation (Bag Mask Ventilation)
 - Set-up and ventilation via Mask
 - Set-up and ventilation via ETT
- Neo/Ped Oxygen hood*
- Neo/Ped Nasal CPAP (High Flow NC)
- Neo/Ped Nasal Cannula
- Neo/Ped MDI via Manual Resuscitator*
- Neo/Ped Chest PT*
- Neo/Ped Newborn Assessment Resuscitation*
- Neo/Ped Bulb Suctioning
- Neo/Ped Suctioning (ET, NT, Trach)
- Neo/Ped Capillary Blood Gas
- **Diagnostic Procedures:**
- Diffusion Study
- Nitrogen Washout/Helium Dilution
- PFT – Quality Assurance
- Plethsmography*
- Spirometry

Format

Hybrid/practicum, Required personal computer with web camera, microphone, internet access, and Microsoft Office applications

Forms of Assessment

- Written examinations
- Homework/Paperwork documentation
- Participation
- Preceptor performance evaluations
- Faculty affective evaluations
- Must obtain a cumulative score of 75.5% to pass the course