

# RSPC A296: RESPIRATORY CARE BOARD REVIEW

Item	Value
Curriculum Committee Approval Date	03/13/2019
Top Code	121000 - Respiratory Care/Therapy
Units	1 Total Units
Hours	18 Total Hours (Lecture Hours 18)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Open Entry/Open Exit	No
Grading Policy	Standard Letter (S)

## Course Description

Comprehensive categorical review of diagnostic and therapeutic modalities in Respiratory Care to prepare for national certification, national registry, and state licensing board examinations. COREQUISITE: RSPC A278. Transfer Credit: CSU.

## Course Level Student Learning Outcome(s)

1. Describe knowledge of patient assessment, equipment, diagnostic techniques, equipment and therapeutic modalities in a comprehensive setting.

## Course Objectives

- 1. Apply patient assessment and monitoring techniques to given patient scenarios \*
- 2. Describe pulmonary diagnostic techniques to diagnose and determine extent to pulmonary pathology. \* +
- 3. Describe and evaluate advanced monitoring data used in the intensive care unit\* +
- 4. Explain types, application, and outcomes of basic respiratory therapies utilized in the clinical area.\*
- 5. List, describe effect, dosages, side effects, and hazards of commonly used pulmonary pharmacological agents\*\*
- 6. Describe and apply to patient situations, techniques utilized in emergency care life support and airway management. \*
- 7. List and describe all modes of life support mechanical ventilation in relation to patient assessment and outcomes.\*
- 8. Apply life support ventilatory techniques, airway management, and patient evaluation in neonatal pathologies\*.
- 9. List, describe clinical applications and evaluate outcomes of special procedures used in pulmonary care.\*
- 10. Explain techniques utilized in home care and patient pulmonary rehabilitation\* .
- 11. Prepare and complete all materials for application to the State Board and NBRC .

## Lecture Content

Board requirements and application process Board requirements Criminal background check DMV records Transcripts Application process State of California Respiratory Care Board National Board for Respiratory Care Patient assessment Overall evaluation of the patient Chest radiograph Chest physical examination Cough and breath sounds Blood gas monitoring Technique and analysis Evaluation of oxygenation Co-oximeter Calculations Transcutaneous oxygenation Pulmonary function Basic spirometry Flow volume loop FRC determination Body plethysmography Equipment Advanced monitoring Capnography Swan Ganz catheter PAP PWP Cardiac output Basic Therapy Hyperinflation therapy Incentive spirometry Positive pressure systems Oxygenation Humidity and aerosol Secretion mobilization Chest physiotherapy PEP therapy Infection control Pharmacology Cardiovascular agents Airway agents Surfactant Calculations Emergency Care CPR ECG Airway management Intubation Tracheostomy Airway clearance Mechanical Ventilation Types of ventilators Modes of ventilation PEEP and CPAP Compliance Waveforms Patient evaluation Neonatal Intensive Care Fetal assessment Resuscitation Oxygenation Mechanical ventilation Pathology Home care and Rehabilitation Program and training Outcome assessment Special Procedures Bronchoscopy Thoracentesis Transtracheal Stress testing Polysomnography Comprehensive Board Mock Examination

## Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)

## Instructional Techniques

Lecture/demonstration Case studies

## Reading Assignments

Written homework assignments.

## Writing Assignments

Written homework assignments.

## Out-of-class Assignments

Written homework assignments.

## Demonstration of Critical Thinking

1. Case studies
2. Weekly Quizzes
3. CRT self-assessment examination
4. WRRT self-assessment examination

## Required Writing, Problem Solving, Skills Demonstration

Written homework assignments.

## Textbooks Resources

1. Required Sills, J.R.. Entry Level Respiratory Therapist Exam Guide, ed. Elsevier/Mosby, Inc., 2004 Rationale: -
2. Required Sills, J.R.. Advanced Respiratory Therapist Exam Guide, ed. Elsevier/Mosby, Inc., 2004 Rationale: -