

Master Syllabus

RET 2101 - Critical Care I

Division: Health Sciences

Department: Respiratory Care

Credit Hour Total: 5.0 **Lecture Hrs:** 4.0 **Lab Hrs:** 3.0

Prerequisite(s): RET 1301

Other Prerequisite(s): AND Restricted to Majors

Date Revised: June 2015

Course Description:

Assessment and treatment of patients in respiratory failure to include the following categories: airway management and emergencies, physiology and treatment of oxygenation/ventilation failure, physiology of lung mechanics, ventilator classification and management, positive pressure ventilation including volume and pressure control ventilation modes, ventilator troubleshooting, weaning from mechanical ventilation, and the application of ventilator graphic interpretation in the management of the mechanically ventilated patient. Four classroom, three lab hours per week.

General Education Outcomes:

- Critical Thinking/Problem Solving Competency

Course Outcomes:

Artificial and anatomical airway management of the mechanically ventilated patient

Determine the correct management and maintenance of the artificial and anatomical airway as well as the lung mechanics pertinent to the mechanically ventilated patient.

Assessment Method: Locally developed exams

Performance Criteria:

75% score or higher

Initiation and management of mechanical ventilation for the adult patient

Identify indications for the initiation of mechanical ventilation and describe the management of mechanical ventilation (including modes, parameter changes, calculations, graphic interpretation, troubleshooting and quality control).

Assessment Method: Locally developed exams

Performance Criteria:

75% score or higher

Termination of adult mechanical ventilation

Discuss the decision for termination of adult mechanical ventilation based on specific disease states and protocols.

Assessment Method: Locally developed exams

Performance Criteria:

75% score or higher

Outline:

Artificial and anatomical airway management as well as the management of airway emergencies for the mechanically ventilated patient

Physiology and treatment of oxygenation/ventilation failure

Physiology of lung mechanics

Initiation, management and termination of mechanical ventilation for the adult patient

Ventilator classification, management, and troubleshooting

Positive pressure ventilation including volume and pressure control ventilation modes

Weaning from mechanical ventilation

Application of ventilator graphic interpretation in the management of the mechanically ventilated patient