

## 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

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### 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

#### **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

#### **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

### 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