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| **PROFESSOR:** | **PHONE NUMBER:** |
| **OFFICE LOCATION:** | **E-MAIL:** |
| **OFFICE HOURS:** | **SEMESTER:** |

1. **COURSE NUMBER AND TITLE, CATALOG DESCRIPTION, CREDITS:**

**RET 2264C ADVANCED MECHANICAL VENTILATION (6 CREDITS)**

In this course, the student will learn the advanced theory and application of techniques for artificial mechanical ventilation, as well as ancillary forms of patient monitoring. The continued development of the application of the various modes of mechanical ventilation and their graphical analysis and ventilator synchrony are key concepts for the learner. The laboratory will demonstrate the clinical concepts and applications to specific ventilator modes as well as ventilator types, used in the Southwest Florida clinical affiliates. The physiological and realistic formats for mechanical ventilation will be consistently contrasted throughout the course. This content, for this course, comprises the single greatest emphasis on the National Board Exams.

1. **PREREQUISITES FOR THIS COURSE:**

RET 2234C

**CO-REQUISITES FOR THIS COURSE:**

RET 2875L, RET 2295

1. **GENERAL COURSE INFORMATION:** Topic Outline.

This course is designed to facilitate learning related to the classification and best practices for mechanical ventilators Topics of discussion include:

* History of mechanical ventilation,
* Advanced steps in ABG evaluation for the management of ventilation
* Establishing the need for mechanical ventilation.
* Basics of ventilator graphics.
* Physiologic effects and complications of positive pressure ventilation.
* Physical aspects and limitations of mechanical ventilation.
* Noninvasive and Invasive monitoring of mechanically ventilated patients.
* Selecting initial parameters and settings.
* Special issues related to ventilator setup.
* Basic patient assessment and methods to improve ventilation
* Methods to improve oxygenation
* Artificial airways, circuits, medication delivery and patient positioning during mechanical ventilation
* Problems and troubleshooting the patient –ventilator system
* Weaning and discontinuation of mechanical ventilation
* Hemo-dynamic monitoring during mechanical ventilation
* Neonatal and pediatric ventilation
* Mechanical ventilation in long term care settings & the patient’s home setting

1. **All courses at Florida SouthWestern State College contribute to the general education program by meeting one or more of the following general education competencies:**

**C**ommunicate clearly in a variety of modes and media.

**R**esearch and examine academic and non-academic information, resources, and evidence.

**E**valuate and utilize mathematical principles, technology, scientific and quantitative data.

**A**nalyze and create individual and collaborative works of art, literature, and performance.

**T**hink critically about questions to yield meaning and value.

**I**nvestigate and engage in the transdisciplinary applications of research, learning, and knowledge.

**V**isualize and engage the world from different historical, social, religious, and cultural approaches.

**E**ngage meanings of active citizenship in one’s community, nation, and the world.

**A.**  **General Education Competencies and Course Outcomes**

1. Listed here are the course outcomes/objectives assessed in this course which play an integral part in contributing to the student’s general education along with the general education competency it supports.

General Education Competency: **Think**

Course Outcomes or Objectives Supporting the General Education Competency Selected:

* Demonstrate an advanced expertise for Mechanical Ventilators including; indications, contraindications, mode of operation, initial set up and timing of the I:E relationships.
* Demonstrate advanced expertise for monitoring and discontinuation of mechanical support.

**2.  Listed here are the course outcomes/objectives assessed in this course which play a *supplemental* role in contributing to the student’s general education along with the general education competency it supports.**

General Education Competency: **Evaluate**

Course Outcomes or Objectives Supporting the General Education Competency Selected:

* Demonstrate understanding of the diagnosis and treatment of various life threatening & emergency conditions that result concurrent with or due to mechanical ventilation

1. **DISTRICT-WIDE POLICIES:**

**Programs for Students with Disabilities**

Florida SouthWestern State College, in accordance with the Americans with Disabilities Act and the College’s guiding principles, offers students with documented disabilities programs to equalize access to the educational process. Students needing to request an accommodation in this class due to a disability, or who suspect that their academic performance is affected by a disability should contact the Office of Adaptive Services at the nearest campus. The office locations and telephone numbers for the Office of Adaptive Services at each campus can be found at <http://www.fsw.edu/adaptiveservices>.

**REPORTING TITLE IX VIOLATIONS**

Florida SouthWestern State College, in accordance with Title IX and the Violence Against Women Act, has established a set of procedures for reporting and investigating Title IX violations including sexual misconduct.  Students who need to report an incident or need to receive support regarding an incident should contact the Equity Officer at [equity@fsw.edu](mailto:equity@fsw.edu).  Incoming students are encouraged to participate in the Sexual Violence Prevention training offered online.  Additional information and resources can be found on the College’s website at <http://www.fsw.edu/sexualassault>.

1. **REQUIREMENTS FOR THE STUDENTS:**

List specific course assessments such as class participation, tests, homework assignments, make-up procedures, etc.

1. **ATTENDANCE POLICY:**

The professor’s specific policy concerning absence. (The College policy on attendance is in the Catalog, and defers to the professor.)

1. **GRADING POLICY:**

Include numerical ranges for letter grades; the following is a range commonly used by many faculty:

90 - 100 = A

80 - 89 = B

70 - 79 = C

60 - 69 = D

Below 60 = F

(Note: The “incomplete” grade [“I”] should be given only when unusual circumstances warrant. An “incomplete” is not a substitute for a “D,” “F,” or “W.” Refer to the policy on “incomplete grades.)

1. **REQUIRED COURSE MATERIALS:**

(In correct bibliographic format.)

1. **RESERVED MATERIALS FOR THE COURSE:**

Other special learning resources.

1. **CLASS SCHEDULE:**

This section includes assignments for each class meeting or unit, along with scheduled Library activities and other scheduled support, including scheduled tests.

1. **ANY OTHER INFORMATION OR CLASS PROCEDURES OR POLICIES:**

(Which would be useful to the students in the class.)