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

# COURSE NUMBER AND TITLE, CATALOG DESCRIPTION, CREDITS:

## RET 2264 Advanced Mechanical Ventilation (3 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 physiological and realistic formats for mechanical ventilation will be consistently contrasted throughout this course. This course provides a strong basis for student success on the Respiratory Care credentialing examination.

# PREREQUISITES FOR THIS COURSE:

RET 2234C, RET 2254C, RET 2714, RET 2874L, all with a grade of “C” or better

### CO-REQUISITES FOR THIS COURSE:

RET 2244, RET 2264L, RET 2875L, RET 2295

# GENERAL COURSE INFORMATION:

This course is designed to facilitate learning related to the classification and best practices for mechanical ventilation. Topics include:

History of mechanical ventilation

Establishing the need for mechanical ventilation

Interpreting 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

Ventilator setup and ventilator management

Ventilator liberation

Ventilator modes

Mechanical ventilation for long term and non-acute care settings

Methods to improve oxygenation and ventilation

Problems and troubleshooting the patient-ventilator system

Medical ethics

## 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 outcomes/objectives assessed in this course which play an integral part in the student’s general education along with the general education competencies they support.

General Education Competency: **Think**

Course Outcomes or Objectives Supporting the General Education Competency:

Students will be able to demonstrate an advanced expertise for mechanical ventilation including; indications, contraindications, modes of operation, initial set up and timing.

General Education Competency: **Evaluate**

Course Outcomes or Objectives Supporting the General Education Competency:

Students will be able to demonstrate an understanding of the diagnosis and treatment of various life threatening and emergency conditions concurrent with or due to mechanical ventilation.

## 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 <https://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 <https://www.fsw.edu/sexualassault>.

## REQUIREMENTS FOR THE STUDENTS:

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

## ATTENDANCE POLICY:

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

## GRADING POLICY:

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

| **Grade Percent** | **Letter Grade** |
| --- | --- |
| 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.)

## REQUIRED COURSE MATERIALS:

(In correct bibliographic format.)

## RESERVED MATERIALS FOR THE COURSE:

Other special learning resources.

## CLASS SCHEDULE:

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

## ANY OTHER INFORMATION OR CLASS PROCEDURES OR POLICIES:

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