



MIDWESTERN STATE UNIVERSITY

## Course Syllabus: Adult Critical Care Procedures and Equipment

Robert D. & Carol Gunn College of Health Sciences and Human Services

RESP 3552 Section 201, 21A, 21B, 21C, 21D

Spring 2020 January 12- May 11

### Contact Information

Instructor: Erica Judie, DHSc, RRT-ACCS

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### Additional Course Instructors

T. Kurszewski, DHSc, RRT-ACCS

J. Fino, MA, RRT

M.S. Owen, MS, RRT-NPS, ACCS, AE-C

### Course Description

Combined lecture and laboratory class focusing on techniques and procedures used to support the adult patient in respiratory failure. Emphasis is placed on correct set-up and application of procedures and equipment. Topics include - full and partial ventilatory support modes, patient-ventilator system checks, triggering, flow patterns, expired gas monitoring, and diagnostic and monitoring uses of the ECG.

### Course Objectives

1. Identify the typical parameters documented during mechanical ventilation
2. Correctly initiate mechanical ventilation on a simulator to include all appropriate settings
3. State the indications for mechanical ventilation
4. Differentiate between volume and pressure cycled ventilation
5. List the criteria for the implementation of mechanical ventilation
6. Differentiate modes of ventilation: Assist control, IMV, Control
7. Describe common complications of mechanical ventilation
8. Differentiate between PEEP and CPAP – hazards and benefits
9. Perform troubleshooting on the patient/ventilator system
10. Describe the criteria used to determine a patient's ability to be weaned
11. Differentiate between various techniques and modes of ventilation used to achieve weaning

12. Analyze various wave forms to determine: Inspiration, expiration, PEEP, auto PEEP, peak and plateau pressure, spontaneous and machine breaths, and over-inflation

Textbook & Instructional Materials

White, G.C. (2013). Basic Clinical Lab Competencies for Respiratory Care. 5<sup>th</sup> Edition. Delmar. ISBN 978-1-4354-5365-4

**Additional material will be provided via D2L.**

Weekly Meeting Pattern

Wednesday: 1:00-1:50 Lecture CE 250  
2:00-5:00 Laboratory CE 250

Student Handbook

Refer to: [Student Handbook 2019-20](#)

Academic Misconduct Policy & Procedures

Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given). Additional guidelines on procedures in these matters may be found in the Office of Student Conduct.

Attendance

**Class attendance and participation is essential. Daily attendance records will be kept. Each missed lab will result in a reduction in the lab attendance grade. Make-up for any time that is missed from lab is the responsibility of the student. Prior absence approval may be granted as deemed necessary by the professor.**

Students are expected to attend all meetings of the classes in which they are enrolled. Although in general students are graded on intellectual effort and performance rather than attendance, absences may lower the student's grade where class attendance and class participation are deemed essential by the faculty member. In those classes where attendance is considered as part of the grade, the instructor should so inform students of the specifics in writing at the beginning of the semester in a syllabus or separate attendance policy statement. An instructor who has an attendance policy must keep records on a daily basis. The instructor must give the student a verbal or written warning prior to being dropped from the class. Instructor's records will stand as evidence of absences. A student with excessive absences may be dropped from a course by the instructor. Any individual faculty member or college has the authority to establish an attendance policy, providing the policy is in accordance with the General University Policies.

## Learning Resources

Laboratory Equipment- Each student will be supplied with laboratory equipment that will be used for instruction and performing therapy. The equipment includes items such as mouthpieces, filters, small volume nebulizers, and additional items. You will need these items to practice with and to perform therapy on fellow students (you will use the actual student's equipment when performing therapy). This equipment will be used in all of your laboratory courses. Everyone is responsible for cleaning and storage of their equipment. You will need a hand calculator, stethoscope and watch with a second hand.

Audio/Video- Additional audio and video resources will be provided throughout the semester via D2L.

## Laboratory Practice Standards

Each student is expected to review the Clinical Skills Laboratory Practice Standards in D2L. Please adhere to the standards as they are important and consistent with the student transitioning to a professional Respiratory Therapist.

## Grading

Course Grade - Graded assignments with their percentage of total grade. A minimum grade of 75 (C) is required in all respiratory courses. Failure to attain a minimum grade of C will prevent the student from progressing in the program.

Table 1: Grading Scale for final grade.

Grade	Points
A	90 to 100%
B	80 to 89%
C	75 to 79%
D	60 to 74%
F	Less than 60%

Table 2: Percentages allocated to each assignment

Assignments	Percentage
Attendance	10%
Quizzes	20%
Midterm Laboratory Check Off	30%
Cumulative Final Laboratory Check Off	40%
Total	100%

## Missed Check Offs, Quizzes, or Other Graded Item Policy

Anything not completed and handed in on time will be subjected to a 15% per day penalty (weekends included). No exceptions!!

**There are no make-ups for quizzes.**

### Quizzes & Semester Lab Check Offs

There will be approximately 4 quizzes. They will be taken from the reading material in the laboratory manual and information covered in the Adult Critical Care Class. They will be given from 1:00–1:20 only. **Remember that there will be no make-up quizzes.**

For each of the chapters in the Laboratory Exercises text you will be required to perform the competencies described in each chapter. The competencies will be practiced in lab with an instructor before the student will be signed off on the competency on a formal competency assessment day. All assigned competencies must be successfully completed by the student in order to complete the course.

Students are highly encouraged to practice, practice, and practice! Success at being checked-off is directly proportional to your comfort at doing a specific task--practice makes perfect.

### Midterm Check Off and Final Check Off

The midterm and final check offs will be comprehensive and performance – based. Each student must pass the midterm check off in order to return to clinical. All assigned competencies must be successfully completed by the student in order to complete the course.

### Extra Credit

Extra credit will not be available for this course.

### Important Dates

Last day for term schedule changes: January 23

Last Day to drop with a grade of "W:" March 30

Refer to: [Drops, Withdrawals & Void](#)

### Desire-to-Learn (D2L)

Extensive use of the MSU D2L program is a part of this course. Each student is expected to be familiar with this program as it provides a primary source of communication regarding assignments, examination materials, and general course information. You can log into [D2L](#) through the MSU Homepage. If you experience difficulties, please contact the technicians listed for the program or contact your instructor.

### Change of Schedule

A student dropping a course (but not withdrawing from the University) within the first 12 class days of a regular semester or the first four class days of a summer semester is eligible for a 100% refund of applicable tuition and fees. Dates are published in the Schedule of Classes each semester.

### Refund and Repayment Policy

A student who withdraws or is administratively withdrawn from Midwestern State University (MSU) may be eligible to receive a refund for all or a portion of the tuition, fees and room/board charges that were paid to MSU for the semester. HOWEVER, if the student received financial aid (federal/state/institutional grants, loans and/or scholarships), all or a portion of the refund may be returned to the financial aid programs. As described below, two formulas (federal and state) exists in determining the amount of the refund. (Examples of each refund calculation will be made available upon request).

### Services for Students With Disabilities

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational programs and activities. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Clark Student Center, Room 168, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. For more details, please go to <http://www.mwsu.edu/student-life/disability>.

### College Policies

Campus Carry Rules/Policies

Refer to: [Campus Carry Rules and Policies](#)

Smoking/Tobacco Policy

College policy strictly prohibits the use of tobacco products in any building owned or operated by WATC. Adult students may smoke only in the outside designated-smoking areas at each location.

Alcohol and Drug Policy

To comply with the Drug Free Schools and Communities Act of 1989 and subsequent amendments, students and employees of Midwestern State are informed that strictly enforced policies are in place which prohibits the unlawful possession, use or distribution of any illicit drugs, including alcohol, on university property or as part of any university-sponsored activity. Students and employees are also subject to all applicable legal sanctions under local, state and federal law for any offenses involving illicit drugs on University property or at University-sponsored activities.

### Grade Appeal Process

Update as needed. Students who wish to appeal a grade should consult the Midwestern State University [Undergraduate Catalog](#)

### Notice

Changes in the course syllabus, procedure, assignments, and schedule may be made at the discretion of the instructor.

## Course Schedule

	Date	Content	Text Reference	Assignments/ Quiz
Week 1	January 22	Ventilator Fair	Pocket guides	
Week 2	January 29	-Compliance and Resistance on Mech. Ventilated Pts. -Ventilator Alarms	Ch. 25	
Week 3	February 5	-Ventilator modes and set-up	Ch. 25	Quiz #1
Week 4	February 10-14	Clinical rotation		
Week 5	February 17-21	Clinical rotation		
Week 6	February 26	-Flowrates/Waveforms	Ch. 25 & 26	Quiz #2
Week 7	March 4	-Ventilator Initiation/Changes	Ch. 25&27	
Week 8	March 9-13	Clinical rotation		
	March 16-20	Spring Break		
Week 9	March 23-27	Clinical rotation		
Week 10	April 1	Midterm		
Week 11	April 8	Waveform Analysis	Ch. 27	Quiz #3
Week 12	April 15	Troubleshooting/Weaning	Ch. 26 & 28	Quiz #4
Week 13	April 22	Clinical rotation		
Week 14	April 29	Clinical rotation		
Week 15	May 6	Final Prep		
Week 16	May 12	Comprehensive Final Check Off @ 1 pm		