



Course Syllabus: Cardiopulmonary Dynamics
College of Health Sciences and Human Services
RESP 4413 Section 101
Fall 2021

Contact Information

Instructor: Randy Case, Ph.D., RRT-NPS
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Course Description

Prerequisite courses include RESP 3543 and RESP 3552. Course Meetings will be Wednesdays from 8:00am to 1:00pm. Course dates are listed below and are subject to change. The focus of this lecture course is to provide the student with a thorough understanding of cardiac electrophysiology and clinical hemodynamics. Emphasis is placed on rhythm recognition, and causes and treatments of common dysrhythmias. Other topics include advanced cardiac life support.

Course Objectives

Course objectives include: Recognize and initiate early management of pre-arrest conditions that may result in cardiac arrest or complicate resuscitation outcome, Demonstrate proficiency in providing BLS care, including prioritizing chest compressions and integrating automated external defibrillator use, Recognize and manage respiratory arrest, Recognize and manage cardiac arrest until termination of resuscitation or transfer of care, including immediate post-cardiac arrest care, Recognize and initiate early management of ACLS, Recognize and initiate early management of stroke, Demonstrate effective communication as a member or leader of a resuscitation team

Textbook & Instructional Materials

Advanced Cardiac Life Support Provider Manual, American Heart Association,
ISBN-13: 9781616694005

Student Handbook

Refer to: [Student Handbook 2020-2021](#)

Academic Misconduct Policy & Procedures

Academic Dishonesty: Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given).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. Research papers and projects must be original work for each course assignment. The faculty will not accept a submission that has been or is being submitted for another course. No Exceptions!

Assignment Grading

Assignments	Percentage of Total Grade
Lecture Examinations	55%
Mega-Code Competency	15%
ACLS Exam	10%
Final Exam	20%

Grading Scale

Letter Grade	Percentage Grade
A	90-100%
B	80-89%
C	75-79%
D	60-74%
F	Less than 60%

A minimum grade of 75, or a C, is required in all respiratory courses. All assignments must be completed by 11:59pm on the due date.

Lecture Exams

Lecture Examinations may consist of multiple-choice, definitions, true/false, short answer, fill-in the blank, labeling diagrams, or essay type questions. The material for the examinations will come from the text as well as lectures and notes. Exams are set for 60 minutes each.

Attendance and Participation

Punctuality to class is imperative. Exams will be given during the first part of class with an allotted amount of time. If the student is late, they will be given the remaining time to finish the exam. At the end of the allotted time, all exams

must be turned in, complete or not. Regular class attendance is required. No distinction is made between excused and unexcused absences unless absence has been cleared through the office of the Dean of Students, Athletic Department, or Academic Affairs. Two late arrivals equal one absence. The following policy will be enforced: Greater than 5 absences will result in instructor initiated drop from the class. Prior absence approval may be granted after review by the professor. If you have a documented disability that will impact your work in this class, please contact me to discuss your needs. In order for you to receive the greatest knowledge and information from this course, the classroom exercises and activities will require your participation. Your participation will be assessed during each class meeting.

Mega-Code Competency

The Mega-Code Competency will be a full clinical check-off for your ACLS Certification. Simulation will be utilized for these check-offs. Groups will be formed in the beginning of the semester and these groups will be utilized throughout the semester for your mock codes. Each group will be assigned a time for their check-off. You will be graded on both individual skills competency and teamwork abilities. If you do not meet the necessary skills to pass the ACLS check-off during the competency, you will have the opportunity to repeat the check-off with an automatic 15 point reduction. If you do not meet the necessary skills to pass the ACLS check-off during your second attempt, you will receive a "0" for your Mega-Code Competency. After 2 failed attempts, remediation of ACLS skills will continue until the student is able to complete the ACLS competency successfully, however, the "0" grade will remain in the gradebook. A grading rubric for this competency can be found in D2L.

ACLS Exam

The ACLS Exam is the actual exam required to pass ACLS and receive your certification. In order to pass the exam, you must achieve an 80% or better. If your score on the exam is less than 80%, the score you received will be recorded in the gradebook. However, you will receive another opportunity to take the exam to achieve the 80% requirement for the ACLS certification. Note, the first attempt on the exam will be the recorded grade for this class. Any repeat ACLS exam scores will only be utilized for the certification, not an improved score in the gradebook.

Final Exam

The Final comprehensive exam may consist of multiple-choice, definitions, true/false, short answer, fill-in the blank, labeling diagrams, or essay type questions. The material for the examinations will come from the text as well as lectures and notes.

Missed Exam and Assignment Policy

If a student is going to miss an examination or assignment, it is the student's responsibility to contact the instructor prior to the exam or assignment deadline. A 10% reduction will be taken for each day (weekends and holidays included) after the scheduled exam or assignment due date. The professor reserves the right to make unscheduled or delayed exams essay in nature and considerably more challenging.

Important Dates

Last Day to drop with a grade of "W:" October 25, 2021.

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.

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

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

Code Teams:

Code Team A:

Acelynn,
Brynna,
Fatima,
Karly,
Malorie,
Melanie

Code Team B:

Anthony
Christian,
Huldah,
Khadijah,
Maranda,
Reagan

Code Team C:

Ashley,
Emma,
Jacky,
Madison,
Mark,
Uriel,
Zhante

Course Schedule:

On the next page, you will find the course schedule. I suggest printing a copy of the course schedule to help you stay organized and meet all deadlines. Please note that changes in the course syllabus, assignments, and schedule may be made at the discretion of the professor.

Course Schedule

Date	Lecture	Exams/Assignments
Aug 25	Review Syllabus Assign Code Groups ACLS Video The Systematic Approach, Team Dynamics, Systems of Care	N/A
Oct 13	Dysrhythmias & Pharmacology	Exam 1: The Systematic Approach, Team Dynamics, Systems of Care
Oct 20	ACLS Case 1 – Respiratory Arrest ACLS Case 2 – VFIB with CPR & AED ACLS Case 3 – VFIB/Pulseless VTach ACLS Case 4 – PEA ACLS Case 5 – Asystole	Exam 2: Dysrhythmias & Pharmacology
Oct 27	ACLS Case 6 – Acute Coronary Syndrome ACLS Case 7 – Bradycardia ACLS Case 8 – Unstable Tachycardia ACLS Case 9 – Stable Tachycardia ACLS Case 10 – Acute Stroke	Exam 3: ACLS Case 1-5
Nov 3	Code Groups A, B, C (After Exam 3) Death & Dying	Exam 4: ACLS Cases 6-10 (8:00)
Nov 10	Code Group B – Report at MSU from 8:00-9:30 Code Group C – Report at MSU from 9:30-11:00 Code Group A – Report at MSU from 11:00-12:30	
Nov 17	Code Group C – Report at MSU from 8:00-9:30 Code Group A – Report at MSU from 9:30-11:00 Code Group B – Report at MSU from 11:00-12:30	
Dec 1	Schedule to be determined closer to date. Will be scheduled between 8:00am and 1:00pm.	Mega Code Competency ACLS Exam
Dec 8	N/A	Final Exam 9:00am

Potential to add extra dates for Code Practice time