



Course Syllabus: Cardiopulmonary Dynamics  
College of Health Sciences and Human Services  
RESP 4413 Section 101  
Fall 2024

Contact Information

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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, 2020, ISBN-13: 9781616697723

## Student Handbook

Refer to: [Student Handbook](#)

### Academic Misconduct Policy & Procedures

This course adheres to the MSU Code of Conduct. Academic dishonesty, however small, creates a breach in academic integrity. A student's participation in this course comes with the expectation that his/her work will be completed in full observance of the MSU Code of Student Conduct. A student should consult the Student Handbook for answers to any questions about the code.

Students are encouraged to take full advantage of many resources available including Internet sites, handouts, other textbooks & journals, faculty, and peers. This interactive collegial learning environment is conducive to lifelong learning.

The components of this course are designed to represent the efforts of each student individually and are NOT to be shared. Submitting someone else's work as your own or improperly cited work constitutes plagiarism. Please see the Midwestern State University Catalog for further discussion of plagiarism. Plagiarism will constitute in an F for the course and the student will be referred to administration for further action. When students submit their efforts for grading, they are attesting they abided by this rule.

Cheating includes, but is not limited to: (1) use of any unauthorized assistance in taking quizzes, tests, or examinations; (2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or completing other assignments; or (3) the acquisition of tests or other academic materials belonging to the university faculty or staff without permission.

Plagiarism includes, but is not limited to: the use of, by paraphrase or direct quotation without correct citation in the text and on the reference list, the published or unpublished works of another person. Students may not submit papers and assignments that they have previously submitted for this or other courses. The use of materials generated by agencies engaged in "selling" term papers is also plagiarism. The use of AI-generated works is also considered plagiarism. Students are encouraged to review the tutorials and suggested websites for more information about plagiarism.

By enrolling in this course, the student expressly grants MSU a limited right in all intellectual property created by the student for the purpose of this course. The limited right shall include but shall not be limited to the right to reproduce the students' work product in order to verify originality and authenticity, and for educational purposes.

## 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 go through remediation measures and have the opportunity to repeat the check-off. However, your Mega-Code Competency grade will be recorded in the gradebook based on your first attempt. Note, the first attempt on the competency will be the recorded grade for this class. Any repeat ACLS competency scores will only be utilized for the certification, not an improved score 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 84% or better. If your score on the exam is less than 84%, the score you received will be recorded in the gradebook. However, you will receive another opportunity to take the exam to achieve the 84% 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:" November 25<sup>th</sup>, 2024.  
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

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disability Support Services in Room 168 of the Clark Student Center, [\(940\) 397-4140](tel:9403974140). For more details, please go to [MSU Texas Disability Support Services Site](#).

### Co College Policies

Campus Carry Rules/Policies

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

Smoking/Tobacco Policy

Refer to: [Smoking and Tobacco Policy](#)

Alcohol and Drug Policy

Refer to: [Alcohol and Drug Policy](#)

### Grade Appeal Process

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

### Course Schedule:

Below, 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.

| Date   | Lecture   | Exams/Assignments   |
|--------|---|---|
| Aug 28 | -Review Syllabus & Code Groups<br>-The Systematic Approach, Team Dynamics, Systems of Care<br>-ACLS Video   |   |
| Oct 2  | -Dysrhythmias & Pharmacology<br>-ACLS Video if not finished   | Exam 1: The Systematic Approach, Team Dynamics, Systems of Care<br><br>Practice Codes |
| Oct 9  | ACLS Case 1 – Respiratory Arrest<br>ACLS Case 2 – VFIB with CPR & AED<br>ACLS Case 3 – VFIB/Pulseless VTach<br>ACLS Case 4 – PEA<br>ACLS Case 5 – Asystole                  | Exam 2: Dysrhythmias & Pharmacology<br><br>Practice Codes                             |
| Oct 16 | ACLS Case 6 – Acute Coronary Syndrome<br>ACLS Case 7 – Bradycardia<br>ACLS Case 8 – Unstable Tachycardia<br>ACLS Case 9 – Stable Tachycardia<br>ACLS Case 10 – Acute Stroke | Exam 3: ACLS Case 1-5<br><br>Practice Codes   |
| Oct 23 |   | Exam 4: ACLS Cases 6-10<br><br>Practice Codes   |
| Nov 13 | Death & Dying   | Practice Codes  |
| Nov 20 | Code Group B – Report at MSU from 8:00-10:00<br>Code Group A – Report at MSU from 10:00-12:00   | Practice Codes  |
| Nov 27 | Code Group A – Report at MSU from 8:00-10:00<br>Code Group B – Report at MSU from 10:00-12:00   | Practice Codes  |
| Dec 4  | Schedule to be determined closer to date.<br>Will be scheduled between 8:00am and 1:00pm.   | Mega Code Competency<br>ACLS Exam   |
| Dec 11 | N/A   | Final Exam  |

NOVEMBER 15<sup>th</sup> ICE EVENT 8:00am to 1:00pm