



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

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.

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

It is the policy of Midwestern State University that no otherwise qualified person, on the basis of disability, be excluded from participation in, be denied the benefits of, or be subject to discrimination under any education program, activity, or employment of the University. It is MSU's policy to provide equal access and opportunity to individuals with disabilities in compliance with federal law to include sections 504 and 508 of the Rehabilitation Act of 1973, the American with Disabilities Act of 1990 (ADA), and the ADA Amendments Act of 2008.

Disability Support Services provides information and assistance, arranges accommodations, and serves as a liaison for students, instructors, and staff. A student who seeks accommodations on the basis of disability must register with Disability Support Services, Clark Student Center Room 168. Documentation of disability from a relevant, licensed professional is required.

Individuals with grievances related to discrimination or lack of accommodation on the basis of a disability are encouraged to resolve the problem directly with the area involved. If the matter remains unresolved, advice and assistance will be provided by Disability Support Services. Specific information on filing a grievance is available in Disability Support Services and at <https://msutexas.edu/student-life/disability/disability-grievance-procedures.php>.

The Director of Disability Support Services serves as the ADA Coordinator and may be contacted by email at disabilityservices@msutexas.edu, by phone at (940) 397-4140, TDD (940) 397-4515, or 3410 Taft Blvd., Clark Student Center Room 168. The web address is <https://msutexas.edu/student-life/disability>.

The Section 508 Coordinator may be contacted by email at disabilityservices@msutexas.edu, by phone at (940) 397-4140, TDD (940) 397-4515, or 3410 Taft Blvd., Clark Student Center Room 168. The web address is <https://msutexas.edu/student-life/disability>.

Student Handbook

Refer to: [Student Handbook](#)

College Policies

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.

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](#)

Drops

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

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. 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 27	-Review Syllabus & Code Groups -The Systematic Approach, Team Dynamics, Systems of Care -ACLS Video	
Oct 1	-Dysrhythmias & Pharmacology -ACLS Video if not finished	Exam 1: The Systematic Approach, Team Dynamics, Systems of Care Practice Codes
Oct 8	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 Practice Codes
Oct 15	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 Practice Codes
Oct 22		Exam 4: ACLS Cases 6-10 Practice Codes
Nov 12	Death & Dying	 Practice Codes
Nov 19	Code Group B – Report at MSU from 8:00-10:00 Code Group A – Report at MSU from 10:00-12:00	 Practice Codes
Nov 26	Code Group A – Report at MSU from 8:00-10:00 Code Group B – Report at MSU from 10:00-12:00	 Practice Codes
Dec 3	Schedule to be determined closer to date. Will be scheduled between 8:00am and 1:00pm.	Mega Code Competency ACLS Exam
Dec 10	N/A	Final Exam

NOVEMBER 14th BRIDGE EVENT 8:00am to 1:00pm