

**Midland College**  
**Syllabus**  
**RSPT 2139**  
**Advanced Cardiac Life Support**  
**(1-0-0)**

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**Course Description:** Advanced Cardiac Life Support (ACLS) with an emphasis on airway management. Designed to develop skills for resuscitation of the adult. Includes strategies for managing and stabilizing the cardiopulmonary arrested patient. May include certification.

**Text, References, and Supplies:** Textbooks (**Required textbook in is bold print**)

Wilkins, Stoller, Kacmarek, Egan's Fundamentals of Respiratory Care. Ninth Edition, Mosby/Elsevier. 2009

**Cummins, Advanced Cardiac Life Support (ACLS) Provider Manual. American Heart Association. 2015**

Burton, Respiratory Care: A Guide to Clinical Practice. Fourth Edition, Lippincott. 1997.

Kacmarek, The Essentials of Respiratory Care, Fourth Edition. Mosby. 2006.

Mistovich, Advanced Cardiac Life Support, Brady/Prentice Hall. 1998.

Walraven, Basic Arrhythmias, Fifth Edition. Brady/Prentice Hall. 1999.

**Students MUST actively participate by completing an academic assignment required by the instructor by the official census date. Students who do not actively participate in an academically-related activity will be reported as never attended and dropped from the course.**

**Course Goals/ Objectives:**

Upon successful completion of the course the student will:

1. Discuss the primary ABCD Survey
2. Discuss the secondary ABCD Survey
3. Describe management of for each step of the ACLS approach
4. Describe the principles and adjuncts of supplemental oxygen
5. Describe the techniques of airway control and management
6. Describe the techniques of ventilation
7. Perform ventilation to endotracheal tube, LMA, Combitube
8. Perform endotracheal intubation
9. Explain primary and secondary tracheal tube confirmation and protection from dislodgment
10. Discuss the human issues associated with CPR and ACLS
11. Discuss the ethical issues associated with CPR and ACLS
12. Discuss the legal issues associated with CPR and ACLS
13. Review basic cardiac life support BCLS/CPR
14. Describe what an Automated External Defibrillator (AED) does
15. List the four (4) universal steps of operating an AED
16. Describe in detail the universal steps above

17. Identify cardiac arrest (lethal) rhythms
18. Identify non cardiac arrest rhythms
19. Perform intermediate rhythm interpretation (i.e., bradycardia, blocks, atrial tachycardia, tachycardia)
20. Provide appropriate therapeutic intervention for cardiac arrhythmias
21. Explain the safe and effective use of a defibrillator to deliver shocks to VF
22. Explain the safe and effective use of cardioversion for unstable VT
23. Explain the safe and effective use of an external pacer
24. Describe major advantages and disadvantages of peripheral and central IV
25. Describe the techniques of intravenous therapy
26. Explain the use of appropriate resuscitation medications to:
  - Correct hypoxemia
  - Restore circulation and blood pressure
  - Promote optimal cardiac function
  - Prevent or suppress significant arrhythmias
  - Relieve pain
  - Correct electrolyte abnormalities
  - Adjust acidosis
  - Counteract effects of prescribed medications or illegitimate agents
  - Treat congestive heart failure
27. Analyze trauma situations
28. Provide appropriate therapeutic intervention for trauma situations

**Student Contributions and**

Each student will spend at least 6 hours per week preparing for class. Attendance is critical in this class. The college attendance policy will be followed.

**Class Policies:**

**All classroom performance and behavior will be considered academic.**

**Evaluation of Students:**

A minimum of one comprehensive test will be given. Test questions will come from lecture, reading assignments and CD information. The test will be objective in nature. The mock code will incorporate all the knowledge and skills the student has acquired during the course. They will be responsible for directing the code to a successful conclusion.

1.	Test	45%
2.	Attendance, participation and attitude	10%
3.	Skills exam (Mock code)	45%
	Total	100%

**Course Schedule:**

The class meets for 1 lecture hour per week. Wednesdays from 09:00 – 10:00 am

## **Students with Disabilities**

### **AMERICANS WITH DISABILITIES ACT (ADA):**

The Americans With Disabilities Act (ADA) and Section 504 of the Rehabilitation Act require that no otherwise qualified person with a disability be denied access to, or the benefits of, or be subjected to discrimination of any program or activity provided by an institution or entity receiving federal financial assistance. It is this Section 504 mandate that has promoted the development of disability support service programs in colleges and universities across the country. Sub-part E of Section 504 deals specifically with this mandate for institutions of higher education.

While it does not require development of special educational programming, for students with disabilities, it does require that an institution (public or private) be prepared to make appropriate academic adjustments and reasonable accommodations to allow the full participation of students with disabilities in the same programs and activities available to non-disabled students. Disabilities may include things such as physical/mobility problems such as paralysis or academic problems like learning disabilities. Some examples of accommodations are extra time for tests, testing in a quiet location, and providing architectural access to buildings.

Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must place documentation on file with the Counselor/Disability Specialist. Students with disabilities should notify Midland College prior to the beginning of each semester. Student Services will provide each student with a letter outlining any reasonable accommodations. The student must present the letter to the instructor at the beginning of the semester.

### **Licensure Eligibility Notification**

Completion of Midland College degrees and/or certificates does not guarantee eligibility to take a certification/registry/licensure examination. The eligibility of each person is determined on an individual basis by the regulatory body of the specific discipline. If you have a conviction of a crime other than a minor traffic violation, physical or mental disability/illness, hospitalization/treatment for chemical dependency within the past five years, current intemperate use of drugs or alcohol or a previous denial of a licensure or action by a licensing authority, you will need to contact the specific regulatory body for an individual ruling. Some programs require a criminal background check and urine and drug screen.

**Non Discrimination Statement:** Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following individuals have been designated to handle inquiries regarding the non-discrimination policies:

**Tana Baker, Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 242, Midland, TX 79705, (432) 685-4781, [tbaker@midland.edu](mailto:tbaker@midland.edu);**

**Natasha Morgan, Director Human Resources/Payroll, 3600 N. Garfield, PAD 104, Midland, TX 79705, (432) 685-4534, [nmorgan@midland.edu](mailto:nmorgan@midland.edu).** For further information on notice of non-discrimination, visit <http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm> or call 1 (800) 421-3481.

### **Spanish**

Midland College no discrimina por motivos de raza, color, nacionalidad, sexo, discapacidad, o edad en sus programas o actividades. Las siguientes personas han sido designadas para responder a cualquier pregunta o duda sobre estas políticas no discriminatorias:

**Tana Baker, Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 242, Midland, TX 79705, (432) 685-4781, [tbaker@midland.edu](mailto:tbaker@midland.edu);**

**Natasha Morgan, Director Human Resources/Payroll, 3600 N. Garfield, PAD 104, Midland, TX 79705, (432) 685-4534, [nmorgan@midland.edu](mailto:nmorgan@midland.edu).** Para más información sobre estas políticas no discriminatorias , visite <http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm> o llame al 1 (800) 421-3481.

### **Division Information**

Division Dean: Dr. Carmen Edwards, DNP, MSN, RN  
Division Secretary: Karen Harris, CPS  
Division Office Location: Room 208 DHS  
Division Telephone: 685-4600 or 685-4799  
Program Chair: Bob Weidmann, M.Ed., RRT, RPFT, RRT-NPS, RCP  
Program Office Location: AMS A34  
Program Office Telephone: 432/685-5549

Students are encouraged to contact the instructor at any time; however, making an appointment will guarantee the instructor's availability at a specific time.