

Cardiology

Class

EMSP 2444

Assessment and management of patients with cardiac emergencies. Includes single and multi-lead ECG interpretations.

Pre-requisite: Admission to the WC Paramedic Program, AHA Basic Life Support, EMSP 1438, EMSP 1455, EMSP 2360

Co-requisite: EMSP 2306, EMSP 2534, EMSP 2261

Course Learning Objectives

Course content is guided by the Education Standards set forth by the US DOT – NHTSA, as adopted by the Texas Department of State Health Services.

1. Integrate pathophysiological principles and assessment findings to formulate a field impression
2. Implement a treatment plan for the cardiac patient.

See the current WC Student Handbook and EMS Academy Rules and Regulations for additional information and program entry requirements.

Required Textbooks

- Bledsoe, Paramedic Care V1, 6th Ed, Pearson, ISBN: 2818560659976
- Bledsoe, Paramedic Care V2, 6th Ed, Pearson, ISBN: 2818560659983
- WC Custom, Pharmacology Manual, 1st Ed, ISBN: 2818560626886
- Walraven, Basic Arrhythmias, 8th Edition, Pearson, ISBN: 9780134380995
- 2020 Handbook of Emergency Cardiovascular Care for Healthcare Providers, American Heart Association, ISBN: 9781616697662

Evaluation Standards

Students should strive to achieve a grade of 80 or higher on each major exam. A grade below 80 is considered poor academic performance. A final cumulative grade of 80 and an 80 or higher on the modular final is required to proceed to remain in the program. Students not meeting this requirement will be released from the program.

Assigned Reading = 2.5%

Module Quizzes = 15%

Module Exams = 30%

Homework/In-Class Assignments = 12.5%

Final Exam = 40%

90 -100 = A

80 – 89 = B

79.9 –Below = F

Affective Grade: The affective grade will be broken down into two components: daily attendance & class participation. You start off with 100 points from which points will be deducted for infractions outlined in the WC EMS Academy Rules and Regulations. If the affective grade drops below 80% the student will be released from the program and will receive a grade of F recorded on the transcript.

Psychomotor Grade: Students must pass all psychomotor evaluations within the three allowable attempts. Failure to pass all evaluations will result in failure of the course. A grade of F will be recorded on the transcript.

Instructional Methods

This course is taught through lectures in the classroom and skills demonstration and practice in the lab.

Disabilities

ADA Statement:

Any student with a documented disability (e.g. learning, psychiatric, vision, hearing, etc.) may contact the Office on the Weatherford College Weatherford Campus to request reasonable accommodations. *Phone:* 817-598-6350 *Office Location:* Office Number 118 in the Student Services Building, upper floor. *Physical Address:* Weatherford College 225 College Park Drive Weatherford, TX.

Academic Integrity

Academic Integrity is fundamental to the educational mission of Weatherford College and the College expects its students to maintain high standards of personal and scholarly conduct. Academic dishonesty includes but is not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials. Any student who is demonstrated to have engaged in any of these activities will be subject to immediate disciplinary action in accordance with institutional procedures.

Plagiarism is the use of an author's words or ideas as if they were one's own without giving credit to the source, including, but not limited to, failure to acknowledge a direct quotation.

Cheating is the willful giving or receiving of information in an unauthorized manner during an examination, illicitly obtaining examination questions in advance, copying computer or Internet files, using someone else's work for assignments as if it were one's own, or any other dishonest means of attempting to fulfill the requirements of a course.

Collusion is intentionally aiding or attempting to aid another in an act of scholastic dishonesty, including but not limited to providing a paper or project to another student, providing an inappropriate level of assistance; communicating answers to a classmate during an examination; removing tests or answer sheets from a test site, and allowing a classmate to copy answers.

Program Learning Outcomes

"To prepare competent entry-level Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and/or Emergency Medical Responder levels."

Program Outcomes:

1. Integrate a complex depth and comprehensive breadth of knowledge of the anatomy and physiology of all human systems.
2. Integrate comprehensive knowledge of the pathophysiology of major human systems.
3. Integrate scene and patient assessment findings with knowledge of pathophysiology to form a field impression. This includes the development of a list of differential diagnoses through clinical reasoning to modify the assessment and formulate a treatment plan.
4. Integrate comprehensive knowledge of causes and pathophysiology into the management of cardiac arrest and peri-arrest states.
5. Integrate comprehensive knowledge of the causes and pathophysiology into the management of shock, respiratory failure, or arrest with an emphasis on early intervention to prevent arrest.
6. Safely and effectively perform all psychomotor skills within the National EMS Scope of Practice Model and state scope of practice at the Paramedic level