

Emergency Medical Responder

Course Syllabus

Location:

Romeo Engineering and Technology Center
62300 Jewell Road,
Washington, MI 48094
586.752.0245
Room A-100

Instructor:

Sarah Pile, BS, NREMT-P, EMSIC
sarah.pile@romeo.k12.org

Credits:

1 credit, Grades 9-12

Course Description:

This class is designed for students interested in medicine – specifically emergency medicine. Students enrolled in this program will receive instruction in the fields of pre-hospital and emergency medical training. This program is a study of the human body and the treatment required outside the hospital setting. Students will receive hands-on instruction in anatomy and physiology, emergency first aid, bleeding control, shock, cardiac arrest management, airway management, and patient treatment at accident scenes. Classroom study and hands-on practical assessments will challenge the student both academically and physically.

Required Text

First Responder 8th Edition, Brady Books

Course Outcomes

By the end of the course, students will be able to:

1. Identify the major components and functions of the respiratory, circulatory, nervous, digestive, musculoskeletal, endocrine, genito-urinary and reproductive systems.
2. Identify, understand and utilize appropriate common medical terminology.
3. Become familiar with background information, base concepts, and current issues in EMS as well as the applicable Federal, State and local laws as they relate to out-of hospital patient care.
4. Identify signs, symptoms of and techniques for dealing with EMS related stress & the well-being of the EMT.
5. Identify the assessment skills needed to evaluate the out-of-hospital patient, including the geriatric patient.
6. Identify the pathophysiology, signs and symptoms, and out-of-hospital management of the following:

- a. Medical and Traumatic respiratory emergencies.
 - b. Cardiovascular emergencies
 - c. Altered mental status, diabetes & acute strokes
 - d. Syncope/allergic reaction.
 - e. Poisonings, and substance abuse related emergencies
7. Be familiar with and administer general pharmacology & use of the AED.
 8. Utilize the computer generated self-tests to reinforce key concepts.
 9. Be proficient at EMS communications & documentation.
 10. Identify the anatomy of the Central Nervous, Endocrine and Reproductive Systems
 11. Identify the pathophysiology, signs, symptoms and out-of-hospital management of the following:
 - a. Acute abdominal pain
 - b. Bleeding and soft tissue injuries
 - c. Musculoskeletal injuries, burns, shock and trauma.
 - d. OB/GYN, pediatric and genitalia emergencies
 - e. Injuries to the eye, face, neck and spine
 - f. Neurological dysfunction and behavioral problems
 - g. Environmental emergencies, submersion drowning, diving and agricultural emergencies
 12. Identify the mechanism of injury as they relate to the study of kinematics of injuries and extrication.
 13. Identify the need for and appropriate techniques for managing a hazardous material and multiple casualty incidents.
 14. Become familiar with EMD response to weapons of mass destruction.
 15. Demonstrate the proper assessment skills needed to evaluate the out-of-hospital patient.
 16. Demonstrate the proper techniques for body substance isolation and patient handling.
 17. Demonstrate the proper techniques for protecting oneself in unstable or hostile situations.
 18. Demonstrate the proper procedure for Basic Cardiac Life Support in the out-of-hospital patient.
 19. Demonstrate the proper procedure for dressing, bandaging, and splinting soft tissue and musculoskeletal injuries.
 20. Demonstrate the proper use of spinal immobilization devices for treating suspected spinal injuries in the adult, pediatric and geriatric patient.
 21. Demonstrate the proper use of basic to medium airway devices, ventilation and oxygen therapy.
 22. Demonstrate the proper treatment modalities for a patient with medical conditions such as cardiac, diabetic, neurological, OB, traumatic or anaphylactic emergencies.

Attendance

Students will follow the Romeo High School Student Handbook's rules. Click [here](#) for more information (page 14-17).

Academic Dishonesty/Plagiarism

Cheating is considered a serious academic offence. Examples of cheating include, but are not limited to

- a. Unauthorized sharing of test answers.
- b. Unauthorized sharing of class assignments or homework.

- c. Plagiarism
- d. Unauthorized distribution of course assessments.

Click [here](#) for more information regarding Academic Dishonesty (page 28).

Class Drop/Add Policy

According to the Romeo High School Student Handbook, student classes cannot be changed without going through the approval change of schedule process. Only in extenuating circumstance will student scheduled be changed within the first 5 days of each semester. (Page 12)

Grades and Citizenship

We will be following the Grading Policy and Citizenship Policy outlined in the Student Handbook. Click [here](#) for more information (page 7-12)

Grades consist of the following

- a. Classroom participation (both discussion and hands on)
- b. Practical skill assessments
- c. Homework
- d. Quizzes
- e. Tests (80% average of test scores are required to take the NREMT exam)
- f.

Personal Communication Devices (cells phones)

The EMS courses are a part of the Yellow Zone which means Communication devices are allowed at the discretion of the teacher on a daily basis. Teacher permission is required on an individual student request.

The use of all audio, video recording and picture taking will be Strictly Prohibited. The instructor will take pictures as necessary for distribution.

Class Dismissal:

Students are expected to stay in their seats until the teacher dismisses the class.

Seating Assignments:

During the first 2 days of class students may decide where they wish to sit. Once the seating cart is made no changes will be allowed. Students wishing to change their seat may do so only upon instructor approval. As part of the course, seating will be changed periodically.

Instructor Availability:

The instructor/coordinator will be available before and after school by appointment only.

Hall/Bathroom Policy:

NO passes will be given during the first 15 or last 15 minutes of the class. Time out of class not to exceed 10 minutes or you will forfeit a pass. NO passes will be issued so that you may see someone. It is your responsibility to obtain a pass to leave class from that person or office. One student at a time.

Behavioral Expectations:

You are in a college level course and are expected to behave at that level. Consideration to fellow classmates and their learning experience is of the utmost concern. DO NOT distract or disrespect them from their learning experience.

Health and Safety Policy:

All students are required to practice universal precautions at all times in the classroom and clinical setting. Should an injury or possible exposure occur in the classroom or clinical setting the student must inform the instructor immediately.

Should you have any questions on the above policy, please contact the instructor.