



**Academy of Arts, Careers and Technology (AACT)  
Medical Academy  
2021/2022  
EMS**

**Instructors Name and Contact Information:**

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Office hours by appointment

Join the EMS parent portal on remind by texting @hgslic to 81010. Parents/Guardians will be notified of events and announcements for the class on this platform, as well as have the capabilities of messaging the instructor.

**Link to Brief Video**

**Course Purpose**

The purpose of the EMS classes are to establish a basic understanding of the knowledge, skills and techniques required of the prehospital personnel. Areas to be included are, but not limited to: EMT and EMR roles and responsibilities, airway management, patient assessment, medical emergencies, anatomy and physiology, documentation, lifting and moving, and communications. Students will participate in lab scenarios where they will perform techniques and skills in relation to medical and trauma emergencies to better prepare them for real world experiences. Students will complete the course with all the necessary information and training related to their scope of practice to respond to emergency scene and situations. Upon successful completion of this course, the student will be eligible to take the National Registry test and certify as an EMT or EMR in the State of Nevada.

**Course Objectives**

1. Identify the key elements necessary for effective EMS systems operations
2. Describe the role of the first responder/EMT in the patient care setting as defined by the U.S. Department of Transportation and within their scope of practice both nationally and state.
3. Understanding the spread and physiology of pathogens and how to prevent from exposure.
4. Identify the role of the EMS community in injury prevention.
5. Understand the laws of EMS
6. Discuss specific prehospital ethical issues including decisions surrounding resuscitation, confidentiality, and consent.
7. Have a basic understanding of the human anatomy and physiology across the lifespan as it relates to the care of the patient in the prehospital setting.
8. Students will identify health information and evidence based research from a wide range of resources.
9. Students will identify mental health assessment criteria in assessments of all individuals. Recognizing stress and promoting health and wellness; as well as, stress management techniques.

10. Recognizing characteristics for medical emergencies and describing/performing prehospital treatments, including pharmacology, in all of the human systems across the life span.
11. Students will demonstrate skills associated with treatment for traumatic injuries related to mechanisms of injury in all the human systems.
12. Students will demonstrate skills associated with treatments under stressful and realistic scenarios.

## **Class Outline**

Unit 1 – BLS certification, BLS recert (EMT's), first aid (EMR), EMS systems, workplace safety, disease pathogens, med legal, communication and documentation, lifting and moving, cellular anatomy (EMT), pharmacology and medication administration, patient assessment, anatomy of muscles and bones, musculoskeletal/orthopedic injuries and splinting and ambulance operations.

Unit 2- airway management, human anatomy, respiratory emergencies, cardiac emergencies, and neuro emergencies. Endocrinology, blood sugar assessment, virology, immunology, hematology, digestive and urinary anatomy and emergencies and multisystem trauma and management.

Unit 3 – male and female reproductive anatomy and emergencies, gynecologic emergencies, menstruation phases, childbirth and pregnancy, lifespan development, Erickson and Piaget's theories, intro to child psychology, mental health, intro to abnormal psychology and toxicology.

Unit 4 Environmental, trauma overview, bleeding control and shock, BCON training (EMT's), weapons of mass destruction, HAZMAT, terrorism, incident management, national registry exam prep and national registry exam (for all becoming certified, if eligible).

All students who meet the attendance and grade requirements will have the ability to test for their state and national examination (EMR's will only become state certified).

Complete syllabus and other current information available on your students' teams.