

# EMS - EMERGENCY MEDICAL SERVICES

## EMS 101 - CPR and First Aid

**Units: 1**

This course is a video-based instructional module in CPR and First Aid. It includes peer practice, manikin practice, and case discussions. This course may be conducted to train students in the academic setting or to provide emergency training in the workplace.

*Transferability: May not transfer towards an NSHE bachelor's degree*

## EMS 108 - Emergency Medical Technician Training

**Units: 6-8**

The primary focus of the Emergency Medical Technician is to provide basic emergency medical care and transportation for critical and emergent patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care and transport. Emergency Medical Technicians function as part of a comprehensive EMS response, under medical oversight. At the successful completion of this course, the student will be eligible to receive EMT Certification from the National Registry of EMTs and the State of Nevada Health Division. Students must be 18 years old upon completion of this class. \* This course satisfies 18 hours of instruction toward completing the embedded Human Relations curriculum requirements, in accordance with Embedded Curriculum Guidelines Option A.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: Current American Heart Association Healthcare Provider CPR card.*

## EMS 113 - Emergency Medical Responder

**Units: 4**

The primary focus of the Emergency Medical Responder is to initiate immediate lifesaving care to critical patients who access the emergency medical system. This course was designed using the National EMS Education Standards to help students understand the basic knowledge and skills necessary to provide lifesaving interventions while awaiting additional EMS response and to assist higher-level personnel at the scene and during transport. Emergency Medical Responders function as part of a comprehensive EMS response, under medical oversight. Emergency Medical Responders perform basic interventions with minimal equipment. Completion of the course will allow the student to be eligible for national and state certification as an EMR and provide a gateway to becoming an EMT.

*Transferability: May not transfer towards an NSHE bachelor's degree*

## EMS 115 - Advanced Emergency Medical Technician

**Units: 7**

The primary focus of the Advanced Emergency Medical Technician is to provide basic and limited advanced emergency medical care and transportation for critical and emergent patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care and transportation. Advanced Emergency Medical Technicians function as part of a comprehensive EMS response, under medical oversight. Advanced Emergency Medical Technicians perform interventions with the basic and advanced equipment typically found on an ambulance. The Advanced Emergency Medical Technician is a link from the scene to the emergency health care system. Successful completion of this course allows the candidate to sit for the National Registry of EMT's and State of Nevada's certification exam. This course satisfies 23 hours of instruction toward completing the embedded Human Relations curriculum requirements, in accordance with Embedded Curriculum Guidelines Option A.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: Current Nevada EMT certification, immunizations, and American Heart Association Healthcare Provider CPR certification.*

## EMS 198 - Special Topics in EMS

**Units: 0.5-6**

Various short courses and experimental classes covering a variety of subjects. The course will be a variable credit of one-half to six credits depending on the course content and number of hours required. The course may be repeated for up to six credits.

*Transferability: May not transfer towards an NSHE bachelor's degree*

## EMS 200 - Fundamentals of Paramedic Medicine

**Units: 2-4**

This course defines the roles and responsibilities of the paramedic and the importance of scene safety, stress management, and wellness when practicing in the field. The course also provides information on injury prevention and the use of protective equipment needed to protect the paramedic in the field. It will provide the student with an understanding of the medical-legal and ethical issues, which will affect them in their career. Students will also develop communication and documentation skills necessary to perform their duties. They will overview life span development and how it influences their assessment of different patient populations. Students will also develop critical thinking and clinical decision-making skills utilizing crew resource management and leadership skills to be able to effectively manage a scene. Students will also discuss career options in the field of paramedicine. This course satisfies 10 hours of Human Relations general education requirement.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: Acceptance into the Paramedic Program.*

## EMS 202 - Advanced Cardiology for Paramedics

**Units: 3**

This course will prepare the Paramedic student to recognize and identify cardiac abnormalities in a 12-lead ECG as well as be able to identify when to treat abnormalities based on the presentation of the patient.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: Current enrollment in TMCC Paramedic Program.*

*Term Offered: Spring and Fall*

**EMS 203 - Paramedic Skills**

**Units: 3-4**

This course is designed for students to practice skills appropriate to national level exams within the paramedic scope.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Enrollment Requirements: Prerequisite: Current enrollment in TMCC Paramedic Program.*

*Term Offered: Spring and Fall*

**EMS 204 - Principles of Anatomy & Physiology for Paramedicine**

**Units: 4**

This course is designed to provide more in-depth knowledge of anatomy and physiology to help students build a foundation when entering the paramedic academy. This course has a lecture and lab component where the structure and function of all of the body systems will be discussed and applied. This course satisfies the science credit for the Associates in Applied Science- Prehospital Emergency Services only. This course is also a prerequisite to enter into the paramedic program.

*Transferability: May not transfer towards an NSHE bachelor's degree*

**EMS 205 - Principles of Pathophysiology**

**Units: 3-4**

Pathophysiology is the foundation of any medical career. This course focuses on the concepts of pathophysiology essential to understanding alterations in body systems. A strong knowledge base on pathophysiology is important in clinical decision-making in the emergency setting. The students will also understand how the pathological processes manifest themselves in the body and relate to the disease process of medical conditions that healthcare professionals encounter in the field.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: EMT or EMT Advanced and acceptance into the Paramedic Program.*

**EMS 206 - Prin Pharmacology/Medication Admin/Venous Access**

**Units: 3-4**

This course prepares the student to understand and be able to integrate the principles of pathophysiological pharmacology and the assessment findings to formulate a field impression and implement a pharmacologic management plan for patients in the prehospital environment. The course also introduces the paramedic student to venous access, IV therapy, medication administration and drug calculations that will be used in treating patients in the prehospital environment. This course satisfies 16 embedded hours toward specified programs and certificates for AAS Math/Quantitative Reasoning General Education requirements.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Enrollment Requirements: Prerequisite: Acceptance into the Paramedic Program.*

**EMS 207 - Airway Management and Ventilation for Paramedics**

**Units: 3-4**

Integrates complex knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of ensuring a patent airway, adequate mechanical ventilation, and respiration for patients of all ages.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Enrollment Requirements: Prerequisite: EMT or EMT Advanced and acceptance into the Paramedic Program.*

**EMS 208 - Paramedic Practicum**

**Units: 2-4**

This course is designed to apply concepts learned from the first semester of the paramedic program and incorporate the knowledge gained in that time to a set number of hours in field time with an assigned agency and clinical time in an assigned hospital. This will help students practically apply their knowledge and skills to build on their experience and critical thinking skills for the second semester. This course satisfies 12 embedded hours toward specified programs and certificates for AAS Human Relations General Education requirements.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Enrollment Requirements: Successful completion of EMS 207, EMS 209, EMS 210*

**EMS 209 - Patient Assessment for Paramedics**

**Units: 3-4**

This course introduces the Paramedic student to a comprehensive physical examination and assessment, which includes history taking, clinical decision making, communications, and documentation. \*

This course satisfies 10 hours of Human Relations general education requirement. This course satisfies 16 embedded hours toward specified programs and certificates for AAS Math/Quantitative Reasoning General Education requirements.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Enrollment Requirements: Prerequisite: Acceptance into the Paramedic Program.*

**EMS 210 - Principles of Cardiology for the Paramedic**

**Units: 3-4**

This course prepares the Paramedic student to identify single and multi-lead cardiac rhythms and treat those rhythms considered to be life-threatening with electrical therapy. The skills taught include defibrillation, cardioversion, and cardiac rhythm interpretation. It will also prepare the student to assess, manage and treat various cardiovascular emergencies that includes ventricular fibrillation, bradycardia, tachycardia, myocardial infarction, cardiogenic shock, pulmonary edema, angina pectoris, congestive heart failure, hypertension, PEA (pulseless electrical activity), and asystole.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Enrollment Requirements: Prerequisite: EMT or EMT Advanced and acceptance into the Paramedic Program.*

**EMS 211 - Paramedic Care for Medical Emergencies**

**Units: 3-4**

This course will prepare the Paramedic student to identify, assess, manage, and treat various medical emergencies and communicable diseases utilizing proper assessment, communication techniques, and interventions. This course satisfies 12 hours of Human Relations general education requirement. This course satisfies 13 embedded hours toward specified programs and certificates for AAS Math/Quantitative Reasoning General Education requirements.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Enrollment Requirements: Prerequisite: Acceptance into the Paramedic Program.*

**EMS 212 - Paramedic Trauma Emergencies**

**Units: 3**

This course will prepare the paramedic student to identify, assess, manage, and treat various types of trauma emergencies. The ITLS course will teach paramedic students the skills necessary to recognize mechanisms of injury, assess, perform critical interventions, package for transport, and fundamental knowledge and experiences necessary to deliver the trauma patient to the emergency department. This course satisfies 10 embedded hours toward specified programs and certificates for AAS Human Relations General Education requirements.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Enrollment Requirements: Prerequisite: Acceptance into the Paramedic Program.*

**EMS 214 - Special Populations in Paramedicine** **Units: 3**

This course prepares the Paramedic to identify, assess, manage, and treat age-related emergencies, and other special challenges. The student will also be introduced to the concept of assessment-based management. Topics include Neonatology, Pediatrics, Geriatrics, Abuse and Assault, and Patients with Special Challenges. This course satisfies 12 hours of instruction toward completing the embedded Human Relations curriculum requirements, in accordance with Embedded Curriculum Guidelines Option A.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: Acceptance into the Paramedic Program.*

**EMS 215 - EMS Incident Management and Operations** **Units: 3**

This course addresses the principles of Assessment Based Management that will teach the paramedic student how to implement a plan for patients with common complaints. The course will also prepare the Paramedic for the concepts of medical incident command, ambulance and rescue operations, hazardous materials incidents, and crime scene awareness.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: Acceptance into the Paramedic Program.*

**EMS 216 - Hospital Clinical Experience for the Paramedic** **Units: 4-7**

This course allows the paramedic student to apply learned classroom skills and knowledge in the hospital environment such as telemetry, intensive care unit, psychiatric unit, emergency department, and labor and delivery. The student will function under the direction of a nurse or paramedic preceptor. This course satisfies 15 embedded hours toward specified programs and certificates for AAS Human Relations General Education requirements.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: Current enrollment in TMCC Paramedic Program.*

**EMS 217 - Field Internship for the Paramedic** **Units: 4-8**

This course is designed to introduce the Paramedic student to the advanced life support prehospital operations. The student will also become familiar with procedures and care provided by paramedics in the field, and will be a third person on a paramedic rescue unit and will work directly with his or her paramedic preceptor. This course satisfies 30 embedded hours toward specified programs and certificates for AAS Human Relations General Education requirements.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: Current enrollment in TMCC Paramedic Program.*