

# COURSES

## PDF EMERGENCY MEDICAL SERVICES

### EMS100 Healthcare Provider CPR 0 Credits

Provides instruction of Basic Cardiac Life Support/ Cardiopulmonary Resuscitation for the Healthcare Provider which includes: one and two person rescuer for CPR and management of foreign body obstruction of the airway in adults, children and infants. Instruction also provides for recognition of signs and symptoms requiring AED intervention, safe administration of AED, and common actions that can be utilized for survival, and prevention of risk factors for heart attack and stroke. Certification according to the standards of the American Heart Association (AHA) is issued upon successful completion of course which requires passing of a written examination and practical demonstration. The course satisfies the CPR requirement for students admitted to the nursing and surgical technology programs, nursing assistant and EMS courses. May be repeated for up to one credit.

### EMS108 Emergency Medical Technician 8 Credits

Prerequisite: must be 18 years or older. Current CPR certification and required immunizations and tests, and health insurance. See Nursing and Allied Health web site for further information. Prepares individuals to provide basic emergency medical care, according to US Department of Transportation guidelines, to individuals experiencing sudden illness or injury. Course content includes appraisal of scene safety and scene management, assessment and treatment of common emergency patient conditions, including fractures, wounds and airway obstruction. Instruction includes use of emergency medications and automatic external defibrillation (AED) devices as well as components of continuing care during emergency ambulance transportation to the emergency department (ED). Clinical experience includes Emergency department hospital and ambulance rotations to meet a required minimum of 10 patient contacts. Upon successful conclusion of the course the student is eligible to sit for the National Registry Examination for EMT Basic.

### EMS115 Advanced Emergency Medical Technician 8 Credits

Prerequisite: Certified as a Nationally Registered EMT within the last two years. CPR Certificate. Must be at least 18 year of age at the time of enrollment. Prepares students to incorporate knowledge of basic and advanced emergency medical care for critically ill and emergent patients to reduce the morbidity and mortality associated with acute out-of-hospital medical and traumatic emergencies. The A-EMT is educated to safely provide more advanced airway maintenance skills and the ability to recognize basic electrocardiography (ECG) arrhythmias and utilize pharmacological interventions within the scope of practices. Other competencies include interventions such as suctioning, initiation of IV therapy, control of breathing and shock, and cardiopulmonary resuscitation. The A-EMT provides care based on site assessment data and works alongside other EMS and health care professionals as an integral part of the emergency care team.

### EMS200 Fundamentals of Paramedic Medicine 3 Credits

Prerequisite: Admission to the Paramedicine Program. Provides information to the paramedic student on the history, roles and responsibilities, safety, wellness, medical-legal, and ethical issues of paramedic medicine.

### EMS203 Paramedic Skills 3 Credits

Prerequisite: Admission to the Paramedicine Program. Familiarizes the Paramedic student with nationally recognized testing. Provides skill-based practice and assessments in a laboratory environment.

### EMS205 Principles of Pathophysiology 3 Credits

Covers medical terminology, microscopic and gross anatomy and physiology. Designed to go beyond what is covered in the anatomy and physiology review of each section in the national standard curriculum.

### EMS206 Principles of Pharmacology/ Medication Administration & Venous Access for the Paramedic 3 Credits

Prerequisite: Admission to the Paramedicine Program. Prepares Paramedic students 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. Introduces the Paramedic student to venous access, IO access, medication administration and drug calculations that will be used in treating patients in the prehospital environment.

### EMS207 Airway Management and Ventilation for Paramedics 3 Credits

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

### EMS209 Patient Assessment for Paramedics 3 Credits

Prerequisite: Admission to the Paramedicine Program. Introduces the Paramedic student to a comprehensive physical examination and assessment, which includes history taking, clinical decision making, communications, and documentation.

### EMS210 Principles of Cardiology for the Paramedic 3 Credits

Prerequisite: Admission to the Paramedicine Program. Prepares the Paramedic student to identify single and multi-lead cardiac rhythms and treat those rhythms considered to be life-threatening with electrical therapy. Teaches skills including defibrillation, cardioversion, and cardiac rhythm interpretation. Prepares 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.

### EMS211 Paramedic Care for Medical Emergencies & ACLS 4 Credits

Prerequisite: Admission to the Paramedicine Program Prepares the Paramedic to identify, assess, manage, and treat various medical emergencies. Topics include Neurology, Endocrinology, Allergies and Anaphylaxis, Gastroenterology, Urology, Toxicology, Infectious and Communicable Diseases, Behavioral and Psychiatric Disorders, and associated pharmacological interventions.

### EMS212 Paramedic Trauma & International Trauma Life Support (ITLS) 4 Credits

Prerequisite: Admission to the Paramedicine Program Integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a comprehensive treatment/disposition plan for an acutely injured patient.

### EMS214 Special Populations in Paramedicine 3 Credits

Prerequisite: Admission to the Paramedicine Program Prepares the Paramedic student to identify, assess, manage, and treat age related emergencies, and other special challenges. Topics include obstetrics, neonatology, pediatrics, geriatrics, abuse and assault, and patients with special challenges.

### EMS215 EMS Management and Operations 3 Credits

Prerequisite: Admission to the Paramedicine Program Prepares the student to implement a plan for patients with common complaints. Prepares the Paramedic with the concepts of medical incident command, ambulance and rescue operations, hazardous materials, incident, and crime scene awareness.

### EMS216 Hospital Experience for the Paramedic 4 Credits

Prerequisite: Admission to the Paramedicine Program Offers planned hospital clinical experience designed to meet and enhance the specific learning needs of the student. Each area of clinical experience has been selected to correspond with a specific area of didactic classroom instruction and to meet the clinical skill objectives outlined by the program. Students will function under the direction of a nurse or physician preceptor.

### EMS217 Field Internship for the Paramedic 4 Credits

Prerequisite: Admission to the Paramedicine Program and Completion of all other Didactic and Clinical Paramedic courses Introduces the paramedic student to Advanced Life Support (ALS) prehospital operations. Familiarizes students with procedures and care provided by paramedics in

the field. Students will be a third person on a paramedic unit and will work under the direct supervision of a paramedic preceptor.