

## *Emergency Medical Services (EMS)*

### **EMS 250 Paramedic I**

10 Hours

Prerequisites: EMT 111 or equivalent, valid CPR card, valid Illinois EMT-B or EMT-I license  
12 hours weekly (9-3)

This course expands on the basic EMT level material in the areas of medical, legal, moral, and ethical responsibilities, and human anatomy and physiology. Trauma patient assessment is stressed utilizing ITLS standards. Patient assessment will be comprehensive and evoke critical thinking concepts. Respiratory system anatomy and physiology will be covered in preparation for EMS 251. Students must show evidence of appropriate inoculations.

### **EMS 251 Paramedic II**

13 Hours

Prerequisites: EMS 250, valid CPR card, valid Illinois EMT-B or EMT-I license  
21 hours weekly (9-12)

This course introduces students to the anatomy and physiology of the cardiovascular system, emphasizing the structure, function, and electrical conduction system of the heart, and the pathophysiology and emergency management of the cardiovascular system. The student will study the EKG interpretation and treatment of various arrhythmias and specific treatment techniques, including CPR, EKG, monitoring, defibrillation and cardioversion. The student will also study and show proficiency in advanced airway techniques and demonstrate an understanding of pharmacology and medications administered by the paramedic.

### **EMS 252 Paramedic III**

7.5 Hours

Prerequisites: EMS 250 and EMS 251, valid CPR certification, valid Illinois EMT-B or EMT-I license  
12 hours weekly (5-7)

This course is a continuation of EMS 251 covering advanced body systems. The student will first learn the management of hemorrhage in the patient followed by shock and its effects on body systems, and how the nervous system relates to trauma and medical emergencies. The student will also explore additional body systems including endocrine, gastrointestinal, and integumentary.

### **EMS 253 Paramedic IV**

12.5 Hours

Prerequisites: EMS 250, EMS 251, EMS 252, valid CPR card, valid Illinois EMT-B or EMT-I license  
20.5 hours weekly (8.5-12)

This course is a continuation of EMS 252 that will expand into specific types of patients and special circumstances in EMS. Students will learn about hematology, infectious diseases, patients with behavioral and/or psychiatric disorders, physical disabilities, pediatrics, and geriatrics, with special emphasis on personal safety and patient care. Students will also learn techniques of emergency childbirth, be able to identify obstetrical emergencies, respond to hazardous emergencies and explain the incident command system.