

# COURSE DESCRIPTIONS

## PARAMEDIC AND EMERGENCY MEDICAL SERVICE

### **EMTP 1001: First Aid and CPR for Health Care Providers**

Student in this course will learn to recognize and provide first aid for injuries ranging from simple lacerations to musculoskeletal injuries. Students will also learn how to recognize various medical emergencies ranging from heart attacks to allergic reactions. Students will complete requirements for certification in first aid, adult, child and infant CPR including Automated External Defibrillator (AED). This course is recognized by health care agencies, fire departments, police departments and local industries. (Cost of certification will be assessed.)

Ozark Card Fee: \$6; Ozark Allied Health Fee: \$31.

### **EMTP 1007: Basic Emergency Medical Services Training**

This course is designed to train students to perform in pre-hospital care of acutely ill or injured patients. EMTs perform such measures as cardiopulmonary resuscitation, extrication, initial patient assessment and triage, stabilization and transport of any emergency, to include routine transport of non-emergent patient to allied health care facility. Completion of this course with a "C" or better and passing the state exam and be licensed is a pre-requisite to be eligible to enter the Paramedic program.

Ozark Malpractice Insurance Fee: \$66, Ozark Allied Health Fee: \$217.

### **EMTP 1233: Medical Emergencies I with Laboratory**

This course will present the student with a review of anatomy and physiology, an overview of pathophysiology, clinical assessment and treatment of patients presenting with specific illness. Critical thinking and clinical decision making, airway management, and assessment of respiratory, and neurology patients will be included in this section with an emphasis on assessment and management of present illness for effective field treatment. In addition, there will be a review of EMS systems, safety and wellness, public health, medical legal, communications, and documentation. The lab section will include performance of both basic and advanced prehospital airway management techniques, skill practice, scenario development, and high fidelity simulations in a lab environment. Students must successfully demonstrate each skill through a pass/fail scenario for successful course completion. Application of these skills will be reassessed in the clinical setting. This is the first of a series of three Medical Emergency courses required for the paramedic program.

Lecture: 3 hours, Laboratory: 1 hour.

Ozark Paramedic Fee: \$83; Ozark Malpractice Insurance Fee: \$66; Ozark Allied Health Fee: \$93.

### **EMTP 1234: Clinical Practicum I**

The student will receive supervised clinical experience in the emergency department and operating room. While in these areas, the student will perform patient procedures under the guidance of a professional health care preceptor with expertise in the patient care area while also observing all care. Students will be required to assess and document on specific age and diverse complaint based patients while in the clinical area. Patient documentation will be placed and maintained in an online database. A team approach will be emphasized in the clinical area while performing basic and advanced patient skills. Age and condition requirements must be met in the clinical setting and may be found in the program handbook.

Clinical: 4 hours.

Ozark Allied Health Fee: \$124.

### **EMTP 1243: Pharmacology**

Includes the pharmacological developments, standards, patient rights and drug controls. The student will apply their knowledge of human anatomy and physiology, and ethics with the pharmacological use of medications, pharmacokinetics, fluids, and electrolytes. Clinical pharmacology will be emphasized.

Lecture: 3 hours.

Ozark Allied Health Fee: \$93.

### **EMTP 2101: Cardiology I**

This course is the first in a two-part series of cardiology courses aimed at giving the paramedic student a comprehensive knowledge of cardiology. The course is designed to train students to understand the pathophysiology, assessment, and management of cardiac patients to include pharmacological and electrical interventions. The pharmacology section will focus on the study, preparation, administration, and indications of cardiac medications. Students will be presented with EKG (ECG) monitoring leads I, II, and III with an emphasis on the study of arrhythmia etiologies and irregular waveforms. An overview of 12-lead techniques will also be discussed.

Lecture: 1 hours.

Ozark Paramedic Fee: \$59; Ozark Allied Health Fee: \$31.

### **EMTP 2111: Clinical Practicum II**

Prerequisite: EMTP 1234 Clinical Practicum I

A continuation of Clinical Practicum I. The student will apply basic and advanced assessment and procedures in the emergency department and operating room while under supervision of preceptor and/or clinical coordinator. Age and condition requirements must be met in the clinical setting and may be found in the program handbook.

Clinical: 1 hour.

Ozark Allied Health Fee: \$31.

### **EMTP 2202: Cardiology Laboratory II**

Co-requisite: EMTP 2203 Cardiology II

Prepares prehospital care providers for the use and application of cardiac monitors (semi-automated and manual), vagal maneuvers, waveform capnography, and pulse oximetry. Application of these skills will be reassessed in the clinical setting.

Laboratory: 1 hour.

Ozark Allied Health Fee: \$62.

### **EMTP 2203: Cardiology II**

Co-requisite: EMTP 2202 Cardiology Laboratory II

This course is designed to introduce students to the practical application of pathophysiology, assessment and management of cardiac patients to include pharmacological and electrical interventions. The American Heart Association (AHA) Advanced Cardiac Life Support (ACLS) will be administered during this course. ACLS is designed to offer health care professionals a high-density course of advanced cardiac knowledge and treatment. Critical thinking skills will be examined through case based scenarios as well as a written test. In addition to the regular coursework, students must successfully complete ACLS practical (Pass/Fail) and written exam (84%) to successfully complete Cardiology II.

Lecture: 3 hours.

Ozark Allied Health Fee: \$93.

### **EMTP 2211: Clinical Practicum III**

Prerequisite: EMTP 2111 Clinical Practicum II

Designated preceptors and/or clinical coordinator in the following areas will supervise students: Intensive Care Unit, Surgical Recovery, Operating Room, and Labor and Delivery. Students will apply knowledge of all previous program coursework and perform procedures that are appropriate for these areas of hospital. Age and condition requirements must be met in the clinical setting and may be found in the program handbook.

Clinical: 1 hour.

Ozark Allied Health Fee: \$31.

### **EMTP 2212: Emergency Medical Services Operations**

Prepares prehospital care providers to perform in an operations role within the EMS system. This course includes the utilization of medical direction and protocols, rescue, and mass casualty response. Hazardous materials as well as violent situations will be covered with an emphasis on personal and bystander safety. Students will also be expected to successfully complete the Federal Emergency Management Agency National Incident Management System curriculum via the FEMA Emergency Management Institute website during this course.

Lecture: 2 hours.

Ozark Allied Health Fee: \$62.

### **EMTP 2311: Assessment Based Management**

This course includes the final aspects of pre-hospital care and management in this session of the paramedic program. The student will learn effective scene and patient management, critical thinking, and clinical decision-making. This session will serve as a final analysis of the student's ability to analyze patient information and provide the treatment necessary for the best outcome of the patient's condition. The student must have an understanding of all tasks required of the paramedic exam, computerized end of course final, and an oral interview by the program medical director must be successfully completed to complete this course. Upon successful completion of this course, the student will be recommended as a candidate for Paramedic National Registry of EMT's testing.

Lecture: 1 hours.

Ozark Allied Health Fee: \$31.

### **EMTP 2313: Medical Emergencies II with Laboratory**

Prerequisite: EMTP 1233 Medical Emergencies I with Laboratory

This course is designed to train students to understand the pathophysiology, assessment and management of various types of patients. Life Span Development, Gynecology, Obstetrics, Neonates, and Pediatrics are the topics covered for this course. Emphasis will be placed on assessment based management of present illness and focused patient complaints. The American Heart Association (AHA) Pediatric Advanced Life Support (PALS) program will be presented during this course. PALS is designed to provide health care professionals a greater knowledge of emergency care for the pediatric patient. The PALS course stresses critical thinking skills and the student will be examined through case based scenarios as well as a written test. In addition to the regular coursework, students must successfully complete the PALS course to pass this class. This is the second of a series of three Medical Emergency courses required for the paramedic program.

Lecture: 3 hours, Laboratory: 1 hour, Ozark Allied Health Fee: \$93.

### **EMTP 2316: Paramedic Internship**

Prerequisite: EMTP 2211 Clinical Practicum III

This course is divided into two phases. Phase I students will be placed with preceptors in the field who supervise patient assessment and management skills during the student's prehospital rotation. Students will demonstrate a greater understanding of EMS systems, dispatching, and emergencies with a higher level of competency in both verbal and written documentation. Upon completion of Phase I, each student must demonstrate a level of understanding, professionalism and clinical knowledge of prehospital emergency care to be recommended by the medical director and/or clinical coordinator to enter Phase II of Paramedic Internship. Phase II students must perform patient assessment and management skills while under supervision of experienced preceptors including the ability to perform as a team leader in the prehospital setting during this phase of the program. A closer evaluation of student's character and professionalism will be emphasized. This course will be the student's final step in prehospital field evaluation.

Clinical: 6 hours.

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Ozark Allied Health Fee: \$186, Ozark CF Paramedic Fee \$59.

**EMTP 2323: Trauma Management**

This course is intended to present the student with a comprehensive insight into traumatic injury. Pathophysiology, assessment, and management of trauma to include blunt, penetrating, soft-tissue, burn, musculoskeletal, head, face, neck, spinal, thoracic, and abdominal trauma as well as hemorrhage and shock will be analyzed. Types and phases of shock will be explored to provide the student assessment knowledge for the treatment of various shock conditions. Epidemiology of trauma will be discussed as well as the Arkansas Trauma System.

Lecture: 3 hours.

Ozark Allied Health Fee: \$93.

**EMTP 2413: Medical Emergencies III with Laboratory**

This course will present the student with a review of anatomy and physiology, an overview of pathophysiology, clinical assessment and treatment of patients presenting with specific illness. Diseases of the eyes, ears, nose and throat, endocrine emergencies, hematologic, immunologic, infectious disease, abdominal and gastrointestinal, genitourinary, geriatric, and special challenge patients will be included in this section, with an emphasis on assessment and management of present illness for effective field treatment. Comprehensive management of all types of patients with various medical illnesses will be covered using scenarios and simulations. This is the last of a series of three Medical Emergency courses required for the paramedic program.

Ozark Allied Health Fee: \$93.