

### The Profession

The Emergency Medical Technician (EMT) is concerned with pre-hospital care of acutely ill and injured patients at the basic life support level. The Paramedic must master a variety of complex skills in addition to those practiced by the EMT including endotracheal intubation, recognition and management of cardiac dysrhythmias, and administration of drugs.

EMT's and Paramedics find job opportunities in agencies which provide care to patients (e.g., ambulance services, fire departments and private industry). Introductory salaries are approximately \$18,000 for the EMT and \$23,000 for the Paramedic.

### Program

The College of Health Related Professions offers two levels of education and training in the Department of Emergency Medical Sciences: EMT and Paramedic. Both the Associate of Science degree and Certificate are available at the Paramedic level. EMT and Paramedic classes start in August and January. Contact the department for specific information.

### Professional Curriculum

#### EMT-Paramedic

##### EMS 1122—EKG Interpretation

This course covers cardiac anatomy and physiology with particular attention to cardiac electrical activity and the interpretation of electrocardiograms.

##### EMS 1201—Patient Assessment

History taking, physical examination techniques, patient assessment in the field, clinical decision making, communications, and documentation. Emphasis on detecting, defining, and describing normal and pathological conditions.

##### EMS 1210—Clinical Preparation

This course prepares the student to care for patients in the clinical area by presenting the principles of intravenous access, medication administration, and airway management.

##### EMS 1211, 1222, 1233—Clinical Practicum I, II, & III

This course consists of supervised rotations through selected clinical and field areas. Emphasis is on developing and improving psychomotor skills which reinforce classroom presentations.

##### EMS 1311—Anatomy & Physiology

Human Anatomy & Physiology from cellular structure to systems applications. Emphasis is on the normal human anatomy and physiology process. The course is taught using web-based instruction with a text book. Recommended as a prerequisite, but can be taken as a co-requisite.

##### EMS 1320—Pharmacology

This course addresses the basic principles of pharmacology including the history of pharmacology, drug regulation, nomenclature, classification, and pathophysiological principles of drug uptake, utilization, and elimination in the body. This course will also cover basic medical terminology.

##### EMS 1334—Lifespan Development

Recognition, pathophysiology, and management of emergencies among gynecologic, obstetric, neonatal, pediatric, and geriatric patients.

##### EMS 1340—Trauma Management

Trauma systems, mechanism of injury, pathophysiology, management, and treatment of traumatic injuries including hemorrhage, burns, thoracic trauma, soft tissue injury, head injury, spinal injury, abdominal injury, and musculoskeletal injury.

##### EMS 1410—Medical Emergencies I

Recognition, pathophysiology, and management of patients with respiratory, neurologic, endocrine, anaphylactic, non-traumatic abdominal, and urologic emergencies.

##### EMS 2159—Paramedic Competencies

This capstone course combines preparation and evaluation of significant entry level paramedic competencies including psychomotor and cognitive skills. Emphasis is placed on all psychomotor skills and cognitive aspects of the national professional credentialing examination.

##### EMS 2210—Foundations of the Paramedic

A study of the roles and responsibilities within an EMS system, the importance of personal wellness, implementation of injury prevention activities, understanding legal issues, ethics, and principles of therapeutic communications.

##### EMS 2220—Pathophysiology

This Web-based course includes the application of the general concepts of pathophysiology for the assessment and management of emergency patients. Pharmacological interventions are emphasized.

##### EMS 2250—Assessment Based Management

Integration of the assessment findings in order to formulate a field impression and implement a treatment plan for those who face common complaints, physical, mental, social, abuse victims, assault victims, chronic care problems, and financial challenges.

##### EMS 2310—Medical Emergencies II

Recognition, pathophysiology, and management of patients with toxicologic, substance abuse, hematologic, environmental, infectious, psychiatric, and behavioral emergencies.

##### EMS 2431—Paramedic Field Internship

Supervised experience in prehospital care settings. Emphasis on the application of previous coursework in the field environment.

##### EMS 2501—Cardiovascular Care

Utilization of the assessment findings to formulate a field impression and to implement and evaluate the management plan for the patient experiencing a cardiac emergency. Includes Advanced Cardiac Life Support (ACLS) didactic.

#### Special Courses

##### EMS 1291—Emergency Medical Responder

This course prepares individuals to function as Emergency Medical Responders. The Emergency Medical Responder is an integral part of the Emergency Medical Services (EMS) System and is the first individual or group who arrives at the scene in emergency situations. The Emergency Medical Responder uses a limited amount of equipment to perform initial assessment and intervention and is trained to assist other EMS providers. This level of provider is not intended to be utilized as the minimum staffing for an ambulance.

##### EMS 1602—Introduction to Emergency Medical Technology

This course includes all of the skills necessary for the individual to provide emergency medical care at a basic life support level with an ambulance service or other specialized area. Completing this course fulfills all of the requirements for the student to challenge the Arkansas and National Registry of Emergency Medical Technicians certification examination.



#### Certification/Licensure

Successful completion of EMS 1602, a one-semester, six semester credit hour course, satisfies eligibility requirements to apply to take the Arkansas Licensure Examination and the National Registry of Emergency Medical Technicians Examination. A successful candidate then becomes an Emergency Medical Technician.

Successful completion of the Paramedic Program satisfies eligibility requirements to apply to take the National Registry Paramedic Examination. A successful candidate then becomes a Paramedic.

#### Application Procedures and Deadlines EMT-Paramedic

Class size is limited and not all applicants are selected for participation in the program. Early consideration for the Paramedic Program will be given to those who have submitted complete applications (see the required items below) by March 31. Applications must be received by June 15 or December 1 to be assured of consideration for admission.

Applicants must provide:

- Application for Admission:** The College of Health Related Professions Application for Admission Form is required. Please contact the program office for information.
- Application Fee:** A non-refundable application fee of \$20.00 is required and must accompany the application. This fee is subject to change without notice. Please contact the department or the CHRP Admissions Officer for current application fee information.
- Official Transcripts:** Arrange for each college or university you have attended to forward an official transcript of your coursework. If no college/university level coursework has been completed, arrange for all high schools attended to forward an official transcript to the Office of Student Affairs. Applicants who are not high school graduates must provide documentation of satisfactory scores on the General Education Development Test (GED).
- Documentation:** A copy of current EMT (if applicable) or EMT-I (if applicable) and AHA Healthcare Provider card must be submitted by applicants to the Paramedic Program.

5. **Letter of Application:** A letter written by the applicant stating the applicant's interest in the program and the field, and objective(s) to be achieved through completion of the course is required.
6. **Interview & Testing:** Qualified applicants are contacted to arrange an interview after receipt of application, transcripts, and certification documents. On the date of interview, applicants will be given an Asset examination on reading, writing, and mathematics skills.
7. **Experience:** Documentation of pre-hospital or patient care experience in another health care area, where applicable.

For additional details contact the department office (501) 686-5772 or the College admissions officer (501) 686-5730.

#### Special Courses

Application for these courses must be made under the Nondegree/Noncertificate student guidelines published in the Admission to the College section of the College of Health Related Professions Catalog. Class size is limited and not all applicants are selected for participation. Early consideration will be given to those who have submitted complete applications (see the required items below) by the early consideration deadline. For Fall courses the early consideration deadline is **March 31**. For Spring courses the early consideration deadline is **September 30**, applications must be received by **December 1** to be assured of consideration for admission.

Applicants must provide:

1. **Application for Admission:** The College of Health Related Professions Application For Admission Form is required. Please contact the program office for information.
2. **Application Fee:** A non-refundable application fee of \$20.00 is required and must accompany the application. If applying to multiple programs, a \$20.00 fee is required for the first program and \$10.00 for each additional program.
3. **Official Transcripts:** Proof of high school graduation (copy of diploma or official transcript), GED or college transcript(s). Send to the CHRP Admissions Officer, University of Arkansas for Medical Sciences, 4301 West Markham, #619, Little Rock, AR 72205.
4. **Letter of Application:** A letter written by the applicant stating the course in which you wish to enroll and the objective(s) to be achieved through completion of the course is required.
5. **Nondegree/Noncertificate Form:** A signed statement that indicates the applicant has read, understands, and agrees to the requirements governing nondegree/noncertificate applications must be submitted. A standard form is available from the Office of Student Affairs and from the department for this purpose.
6. **Documentation:** A copy of a current AHA Healthcare Provider card must be submitted by applicants to the EMT program.
7. **Admission Requirements for International Applicants:** All applicants who are not United States citizens or permanent resident aliens or for whom English is not their native language must meet additional admission requirements. Please consult the Admission/Academic Information section of the CHRP Catalog found at <http://www.uams.edu/chrp/catalog/>.

Arkansas residency will be considered during selection for admission. Applicants are considered without regard to race, color, creed, age, marital status, national origin, or sex. Qualified handicapped persons, capable of meeting academic standards essential to participation in the program, receive equal consideration.

#### Fees

Shown below are fees for 2010-2011. Fees are subject to change without notice by action of the Board of Trustees, so contact the department chairman prior to registration to learn the exact fees. Note that all fees are due upon registration.

Tuition for Paramedic and EMT students:

Arkansas resident	\$98.00 per semester credit
Non-resident	\$504.00 per semester credit

Laboratory fees are as follows:

EMT	\$40.00 per semester
Paramedic	\$25.00 per semester

Other fees apply; contact the department chairman prior to registration for exact fees.

Applicants for the paramedic program may request financial aid information, which includes grants, scholarships, and student loans, from the UAMS Student Financial Services Office-Awards Division, 4301 West Markham, #864, Little Rock, AR 72205. Please visit [www.uams.edu/studentfinancialservices](http://www.uams.edu/studentfinancialservices) or call (501) 686-5451 for eligibility requirements.

This brochure describes the program requirements for the 2010-2011 academic year. While it is expected that most of the requirements will apply to 2011-2012 as well, some changes are likely. You are strongly advised to contact the department/program office to receive the latest information.

Telephone (501) 686-5772  
 Department of Emergency Medical Sciences  
 University of Arkansas for Medical Sciences  
 4301 West Markham Street, #635  
 Little Rock, Arkansas 72205

[www.uams.edu/chrp/ems](http://www.uams.edu/chrp/ems)



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# Emergency Medical Sciences Paramedic & EMT

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# UAMS

## COLLEGE OF HEALTH RELATED PROFESSIONS

UNIVERSITY OF ARKANSAS  
 FOR MEDICAL SCIENCES

2010-2011

College of Health Related Professions  
 University of Arkansas for Medical Sciences  
 4301 West Markham Street, #635  
 Little Rock, Arkansas 72205