

## **EMS Programming Overview**

Hendricks Regional Health EMS Education Program offers two on-site programs with the mission to provide quality education for all aspects relating to pre-hospital care of emergency and nonemergency ambulance patients. Hendricks Regional Health, has an established reputation and tradition in the State of Indiana for providing excellence in patient care through our mission “to improve the health of our region through the provision of high quality health care in a compassionate, technologically advanced and efficient environment”. The Hendricks Regional Health Emergency Medical Services (EMS) Education program is an integral part of the Hospital’s dedication to emergency care and commitment to community health services. Quality patient care consists of having clear judgment in various demanding environments, and being competent in the assessing physical, social, and mental needs and complaints. The EMS Education Program is aware that patients expect emergency care personnel who are qualified to provide competent care. This competent care comes from education, experience and having the personality to deliver the appropriate care. EMS is a system, not an isolated entity, as such EMS professionals must assess the areas that may affect the care they deliver such as, manpower and their education, communications, patient transportation, facilities and critical care units and mutual aid with other systems. Hendricks Regional Health EMS Education Program to provide the following services:

- Conduct basic and advanced EMS education programs relating to emergency care for all levels of health care and public safety personnel. Graduates of these programs will be eligible to take the appropriate State and National examinations.
- Conduct research and cooperate with those departments, agencies and individuals conducting research in the field of medicine and trauma.

Two programs support the base of the EMS Education Program

- Emergency Medical Technician (EMT),
- National Registry Emergency Paramedic (NRP), or EMS Paramedics

Each program builds upon the prior curriculum and is designed to prepare the student for the next level of education.

Individuals interested in any of our EMS programs must submit an application to be considered for acceptance into the respective program. Since our programs have limited class capacities, selection into the programs is competitive. The EMT program is selected on a first come, first serve basis, and the Paramedic Programs selection is competitive. Not every applicant who applies to the program will be selected. To learn more about the selection process, see “Admissions” in this section.

## **Emergency Medical Technician Program**

An Emergency Medical Technician is trained to assess and provide care in three major categories. An EMT is trained to provide basic life support for critically ill and injured patients with such skills as airway management, CPR (Cardio Pulmonary Resuscitation), controlling accessible bleeding and treating for shock and poisoning. The second category of training includes non-life-threatening conditions such as bandaging and splinting, & patient assessment. The last category of training covers non-medical requirements, including verbal and written communication skills, proper extrication techniques and equipment, and coping with medico-

legal problems. EMT Training is not limited to the previously given examples but this provides a general idea of the scope of training. Classes meet twice per week in the evenings. Two EMT courses are held each year. Classroom sessions are held in the EMS Education classroom inside the hospital and field rotations held in their respective areas. Ambulance rotations include time with emergency response providers. Emergency Department clinical rotations occur in the Emergency Department at the hospital. Upon successful conclusion of the program, students may elect to take the National Registry certification examination as well as the State of Indiana certification requirements written and practical exams.

### **Emergency Paramedic Program**

Once an individual has become certified as an Emergency Medical Technician (EMT), further education may be obtained by making application to the Emergency Paramedic program. Once an application is made, qualified candidates undergo written and practical testing to evaluate their knowledge and comprehension of EMT material. Accepted candidates will experience a rigorous curriculum of advanced life support topics such as cardiology, pharmacology, advanced invasive skills, medical emergencies and ACLS, PALS, PHTLS. Clinical rotations are done in a number of areas in and out of the hospital including numerous hours on a busy, emergency response ambulance. Classes meet twice per week during the day with clinical and ambulance/field rotations scheduled outside of classroom time. One class is accepted every other year. Classroom sessions are held primarily in the EMS Education Classroom but occasionally are located off campus when specialty training is required. At the conclusion of the program, students are eligible to participate in the National Registry written and practical exams to gain Indiana Paramedic licensure.

### **Job Overview**

The pre-hospital care practitioner is traditionally identified as working on an ambulance however the roles have been expanding to meet areas within the healthcare environment as well as industrial or environmental workplaces. Three credentialing levels of care exist in EMS systems: Emergency Medical Technician (EMT), Advanced EMT, and Paramedic. Additionally, there are subspecialties that are becoming popular such as Wilderness EMT, Critical Care Paramedic, and paramedics involved with mobile integrated healthcare practice. The EMS professional must be a confident leader who can accept the challenge and high degree of responsibility entailed in the position. They must have excellent judgment and be able to prioritize decisions and act quickly in the best interest of the patient, be self-disciplined, able to develop patient rapport, interview hostile patients, maintain safe distance, and recognize and utilize communication unique to diverse multicultural groups and ages within those groups. This individual must be able to function independently at optimum level in a non-structured environment that is constantly changing.

Additionally, EMS Professionals must be able to deal with adverse and often dangerous situations which include responding to calls in districts known to have high crime and mortality rates. Self-confidence is critical, as is a desire to work with people, solid emotional stability, a tolerance for high stress, and the ability to meet the physical, intellectual, and cognitive requirements demanded by this position.

EMT's and Paramedics provide the most extensive pre-hospital care and may work for fire departments, private ambulance services, police departments or hospitals. Response times for nature of work are dependent upon nature of call. For example, an EMS Professional working for a private ambulance service that transports the elderly from nursing homes to routine medical appointments and checkups may endure somewhat less stressful circumstances than the provider who works primarily with 911 calls in districts known to have high crime rates. Thus, the particular stresses inherent in the role of the care provider can vary, depending on place and type of employment. However, in general, EMT's & Paramedics must be flexible to meet the demands of the ever-changing emergency scene. When emergencies exist, the situation can be complex and care of the patient must be started immediately. In essence, the healthcare worker in the EMS system uses advanced training and equipment to extend emergency physician services to the ambulance. Further employment opportunities exist within the hospital environment in emergency departments and critical care units.

### Essential Skills and Abilities

To competently practice in the field of Emergency Medical Services, providers must possess the following skills and abilities:

#### 1. Physical/Motor Skills

- Stand, walk, bend, stoop, balance and crawl for extended periods of the time or uneven terrain
- Perform physically strenuous tasks including raising patients in bed, maneuvering patients to and from tables/stretchers and carrying or maneuvering equipment
- Rise from lying, kneeling & seated positions without assistance
- Twist and bend at the waist
- Extend the hands and arms in any direction
- Hold, grasp, pinch and turn with the hands
- Perform any of the above functions simultaneously with others
- Lift at least 50 lbs. unassisted, move 100 lbs., and 150 lbs. with partner assistance
- Work in cold and hot temperature extremes and weather extremes.
- Work for extended hours without eating or sleeping

#### 2. Sensory Abilities

- Correctable near vision to 20 / 40 in at least one eye
- Correctable far vision to 20 / 40 in at least one eye
- Depth perception
- Distinguish colors
- Hear audible speech (e.g. person-to-person communication) at 10 feet
- Hear speech when lips are not visible (e.g. wearing a surgical mask)
- Hear auditory alarms (e.g. patient monitors, fire alarms)
- Hear speech over a telephone
- Hear blood pressure, heart tones, and lung sounds through a stethoscope
- Smell (detect odors such as smoke, alcohol, noxious gasses)
- Feel temperature, pressure, abnormalities in patient assessment

#### 3. Communication Abilities

- Read & comprehend documents in English

- Write legibly in English
- Speak fluently in English
- Understand speech in English
- Adapt verbal communication to recipient limitations (e.g. hearing loss, pediatrics, diminished mental capacity, situational stress)
- Elicit patient history information through questioning techniques while simultaneously administering patient care in stressful or uncomfortable environments.

#### 4. Emotional and Behavior Skills

- Willingness to take directions & criticism
- Be self-directed and assertive once core skills are attained
- Provide emotional support to others in distress
- Adapt to changing environments
- Monitor own emotional state
- Continue to provide patient care under emotionally stressful situations
- Manage frustration appropriately
- Accept responsibility for own errors or shortcomings
- Express strong emotions in socially-acceptable manner
- Respect interpersonal boundaries
- Manage interpersonal and organizational conflicts in a respectful and professional manner

#### 5. Intellectual Abilities

- Recall information with reasonable accuracy
- Recognize cause and effect relationships
- Recognize hazardous or potentially harmful situations and react appropriately
- Anticipate/plan ahead for activities or situations
- Perform tasks in a logical and efficient sequence
- Prioritize tasks
- Problem solve when the solution is not self-evident
- Use visual/spatial processing in evaluating accident/illness surroundings
- Display attention to detail
- Evaluate own performance to determine corrective actions when appropriate
- Demonstrate acceptable time management skills in regards to studying, scheduling, & homework
- Perform mathematical equations necessary for drug calculations
- Orally present accurate patient descriptions to medical personnel via radio or phone

### **Program History**

The EMS Education Programs were first established in 1980's. Initially the Emergency Medical Technician (EMT) program was the only class being taught, and those classes were taught by outside instructors. Currently the EMT classes are taught by affiliated instructors, and the program is overseen by a hospital EMS Coordinator. In 2002, the program conducted their first Paramedic class. In 2012 Hendricks Regional Health had an initial accreditation site visit with the Committee on Accreditation of Educational Programs for the Emergency Medical Services Profession (CoAEMSP), the nationally recognized organization for programmatic accreditation.

As a result, the paramedic program restructured and organized in accordance with the CoAEMSP Standards and Guidelines. With the incorporation of the Field Internship Student Data Acquisition Project (FISDAP) Evaluations, the program was able to quantify student performance, taking what used to be subjective findings to a higher level of objectivity. Because of our high standard of excellence, our students are well equipped for the National Registry credentialing examinations and for entry-level performance in the job role. We are recognized by the State of Indiana and the National Registry of Emergency Medical Technicians (NREMT) as an institution qualified to teach all levels of EMS provider certification. Students reinforce classroom learning with hospital clinical education and a field internship experience. A specialized group of adjunct faculty members provide supervision to all levels of EMS students during field rotations. Graduate and employer surveys show satisfaction with the quality of the education received and of the job performance upon graduation. Our field preceptors are trained by EMS Education Faculty, and use the FISDAP Clinical Educator Training program which promotes consistency across the educational continuum.

### **Mission Statement**

The EMS Education Department exists to provide the highest quality of emergency medical services (EMS) education to our students, associates, and community practitioners in a way that embraces the Hendricks Regional Health Hospital's Mission Statement of "Our mission is to improve the health of our region through the provision of high quality health care in a compassionate, technologically advanced and efficient environment".

### **Facilities**

The EMS Education Department academic facilities are located in the main hospital across from the Emergency Department at 1000 East Main Street Danville IN. One main classroom is available for lecture format courses. Faculty offices are located in and in the rear of the Emergency Department and easily available for student consultation. Once students are accepted into an EMS Education program, they will receive an ID card that will allow access to the Departmental facilities. Specific classroom or skills lab access is done on a case by case basis with prior arrangements with a faculty member.

### **Goals**

Each EMS program at Hendricks Regional Health has the ultimate program goal of providing the educational opportunities to prepare the student to function at the entry level of the respective certification. As the level of responder increases in responsibility and complexity, so do the program goals and outcomes. Each program will outline the specific program goals and outcomes in the respective program manuals.

The goal of the program faculty is to prepare all students to function as a competent entry-level EMS Professional upon graduation, more specifically:

Objective 1A: Upon completion of this program, each student will demonstrate the ability to comprehend, apply, and evaluate clinical information relevant to his/her role as an EMS professional. (Cognitive Domain)

Objective 1B: Upon completion of this program, each student will demonstrate technical proficiency in all skills necessary to fulfill his/her role as an EMS professional. (Psychomotor

Domain)

Objective 1C: Upon completion of this program, each student will demonstrate personal behaviors consistent with professional and employer expectations for the EMS professional.

(Affective Domain)

Each student must show completion of the minimum number of clinical and field hours. This includes completed and submitted documentation for each rotation. Secondly, the Emergency Paramedic Program require minimum skill numbers and contact with specific patient types. While not the most important educational factor, each student has a handbook that includes a listing of required skills such as IVs, team leads, and intubations, other skills and patient demographic contacts. The data placed in FISDAP by the student is required to show minimum skill completion and patient demographic contacts or a student cannot advance to externship and subsequently graduate. These are both minimums, as some students may require more hours or individual skills to show competency.

Students who demonstrate a willingness to participate in the clinical rotations will have more than sufficient number of skills and patient contacts to fulfill the program requirements.

Likewise, students who find it difficult to interact with other members of the healthcare team and ask questions pertinent to the learning environment may find it more difficult to achieve the program minimums within the required number of hours. Each student will have an evaluation session with the Program Director at the conclusion of each Block to provide feedback on strengths, weaknesses and areas for suggested improvements. This is an opportunity for students to elicit feedback and develop performance improvement plans.

## PROGRAM OUTCOMES

### Paramedic Program Outcomes

Enrollment Year	Total Enrollment	Non-academic Attrition	General Education Course Attrition	Professional Course Attrition	Total Attrition	Percent Retention %	# Grads to date	Percent Placement
2015	12	1	0	0	1	91.67%	11	100%
2014	0	0	0	0	0	0.00%	0	0
2013	22	4	0	3	7	68.18%	15	100%
2012	14	0	0	0	0	100.00%	14	100%
2011	0	0	0	0	0	0.00%	0	0%

### Clinical Affiliations

- Brownsburg Fire Territory
- Danville Fire Department
- Fountain County EMS
- Plainfield Fire Territory
- Washington\Avon Township Fire Department

All EMS students participate in a variety of in-hospital clinical and pre-hospital field rotations to supplement the material being presented in the classroom. All clinical affiliates encourage student participation and hands on learning during all phases of their education programs. Specially trained adjunct faculty members provide real time, real scenario learning while responding to the emergency needs of the general public. Students are able to make direct correlation between the classroom and lab sessions with the actual patient care environment. The paramedic preceptors have had basic training in educational methodology, which aids in the transition of the learning process from the classroom to the patient care environment. Additionally, our mixture of clinical affiliates offers a diverse exposure to varied patient demographics and disease processes to prepare the student for superior entry level job performance.

### **Admissions**

Each program level in the EMS Education Department has individual requirements for admission to the program. Class size is limited in each of the classes.

To be considered for the EMT program, applicants must be at least 18 years old AND possess a high school diploma or equivalent. All students must read, write, comprehend and speak the English language fluently. Students must be currently certified in CPR (Cardio Pulmonary Resuscitation) at the American Heart Association Healthcare Provider level upon the course start date and maintain this certification throughout the program.

For admission to the EMS Paramedic program, the applicant must meet the entrance requirements for the EMT program as well as being currently certified as an EMT in the State of Indiana. Additionally, specific immunizations are required by the Hospital and the clinical affiliates such as TB skin testing, Influenza vaccine and others as recommended for the specific program. These immunizations protect both the student and the patients with which they come into contact. Student may opt out of certain immunizations, due to health or religious reasons, if approved by the occupational health office at Hendricks Regional Health Hospital. Documentation must be provided prior to the start of the program in order to be considered.

### **Advanced Placement**

The Hendricks Community Paramedic Science Program does not offer credit for advanced placement credit classes previously completed.

### **Transfer of Credits**

The Hendricks Community Paramedic Science Program does not offer the ability to transfer credits for classes previously completed.

### **Experiential Learning**

Registered Nurses (RN) seeking EMS-Paramedic credentialing may apply for a waiver for experiential credit for some clinical rotations. RN's requesting experiential credit waivers must do so in writing to the Paramedic Program Director with appropriate documentation to substantiate awarding of such. Awards will be made on a case by case basis. Academic course

credit may be granted based upon successful performance on content assessment examinations. RN's wishing to utilize Experiential Learning credits must possess a valid Indiana Emergency Medical Technician certification.

### **Criminal Background Check**

All students entering an EMS Program are held to both the Hendricks Regional Health employee standards as well as the National Registry of EMT's criminal background policy. Below is the policy outlined by the National Registry of EMT's. The National Registry of Emergency Medical Technicians (NREMT) has adopted a Criminal Conviction Policy to safeguard the public from individuals who, in practice as an EMS professional, might pose a danger to the public. EMS professionals, under the authority of their state licensure, have unsupervised, intimate, physical and emotional contact with patients at a time of maximum physical and emotional vulnerability, as well as unsupervised access to a patient's personal property. These patients may be unable to defend or protect themselves, voice objections to particular actions, or provide accurate accounts of events at a later time. EMS professionals, therefore, are placed in a position of the highest public trust. The public in need of out-of-hospital medical services relies on state licensure and national certification to assure that those EMS professionals who respond to their calls for aid qualify for this extraordinary trust. For these reasons, the NREMT has adopted the following Criminal Conviction Policy to ensure that individuals, who have been convicted of certain crimes, are identified and appropriately evaluated as to whether they would pose a risk to public safety as an EMS provider.



### **NREMT Policy**

The NREMT may deny an applicant eligibility to sit for a certification examination, deny certification, suspend or revoke an individual's certification, or take other appropriate action with respect to the applicant's certification or recertification based on that applicant's criminal conviction. This policy applies to, and requires an applicant's disclosure of, all felony convictions and all other criminal convictions (whether felony or misdemeanor) relating to crimes involving physical assault, use of a dangerous weapon, sexual abuse or assault, abuse of children, the elderly or infirm and crimes against property, including robbery, burglary and felony theft. The policy does not apply to convictions for misdemeanor (other than the above-listed types of crimes), traffic violations (except DUI or reckless homicide/manslaughter), theft or unlawful possession of a controlled substance. All applicants for certification or recertification must disclose on their applications any criminal conviction covered by this policy. This policy applies to an applicant's plea of nolo contendere, a guilty plea, or plea agreement, as well as a conviction after trial. Applicants are not required to disclose any criminal conviction that has been expunged from the public record or a deferred adjudication that did not result in the entry of a conviction judgment. Failure to disclose a covered criminal conviction or the withholding of any material information regarding such conviction shall be an independent basis for denial of eligibility to sit for a certification examination, revocation of a certification or denial of an application for recertification. NREMT shall post on its website an applicant's disclosure of any criminal conviction and advise licensing authorities of the availability of this information. NREMT may deny an applicant eligibility to sit for the certification examination, or take other appropriate action, if the applicable state licensing authority, in any state in which the applicant holds or seeks a license as an EMS professional, denies the applicant's eligibility to obtain, or suspends or revokes, a license, based on the criminal conviction. Notwithstanding the absence of any adverse action taken by an applicable state licensing authority on the basis of an applicant's criminal conviction, NREMT may deny an applicant eligibility to sit for a certification examination or recertification if, in the NREMT's sole discretion, based on the following considerations, the NREMT determines that certification may jeopardize public health and safety:

- The seriousness of the crime.
- Whether the crime relates to performance of the duties of an EMS professional.
- How much time has elapsed since the crime was committed.
- Whether the crime involved violence to, or abuse of, another person.
- Whether the crime involved a minor or a person of diminished capacity.
- Whether the applicant's actions and conduct since the crime occurred are consistent with the holding of a position of public trust.
- Whether the applicant is a repeat offender.
- Whether the applicant has complied with all court orders and probationary requirements associated with the conviction.
- Any applicant or registrant subject to an adverse decision by the NREMT under this Policy may appeal that decision as outlined in the NREMT Certification Eligibility, Discipline and Appeals Policy

(National Registry of EMT's policy 2015, [www.nremt.org](http://www.nremt.org))

## **Satisfactory Academic Progress**

Students are required to maintain satisfactory academic progress to remain enrolled in the EMS program. This includes meeting the published grading criteria, attendance standards, or professional standards. On occasion, it becomes necessary to delay completion of the program due to completion of the number of skills competencies, medical leave, or other situations deemed necessary by the program director. A delay in academic progression will be documented and placed in the student file with a specified time frame not to exceed 150% of the normal program progression length. At the conclusion of each course, students will be assigned a course grade as determined by the individual course syllabus. The academic transcript for each student depicts the student's progress through the program curriculum and the final course grades and grade point average (GPA). For all programs, students must earn a grade of "C" or higher in each core program course to remain enrolled in the program and graduate. All EMS programs adhere to the Academic Progress Standards herein Section IV and follow the following grading criteria for course grades unless otherwise noted in the course syllabus.

A = 90-100%

B = 80-89%

C = 70-79%

D = 60-69%

F = < 60%

Further information regarding program academic progress expectations are included the Student Handbook made available to the student on the first day of class or may be obtained by contacting the EMS Program Director. Any student unable to complete the program within the designated 150% time frame, must reapply to the program and begin the respective program from the beginning.

## **Graduation Requirements**

Students graduating from programs offered by the EMS Education Program must have met the completion requirements specified by the individual program as outlined in the program policies and procedures. Completion requirements includes obtaining at least a minimum of 80% average on all coursework and attendance at classroom, clinical and field rotations. Due to the fluid nature of the profession, students may be granted extensions to the deadline dates for patient contacts or skills tallies based upon run volumes. Students enrolled in the Emergency Paramedic will participate in end of Block evaluation sessions with the program faculty to review their progress in the program and determine professional goals for the next semester.

## CURRICULA

### *Emergency Medical Technician (EMT) Curriculum*

Offered: Fall, Spring

Course Code	Course Title	Lecture Hours	Lab Hours	Clinical Hours
	Emergency Medical Technician	146	36	70
	<b>Total</b>	<b>146</b>	<b>36</b>	<b>70</b>

### *Emergency Paramedic Curriculum*

#### Block I

Course Code	Course Title	Lecture Hours	Lab Hours	Clinical Hours
PARM 111	Introduction to Paramedic Sciences	35	0	0
	Anatomy & Physiology	61	7	0
PARM 116	Clinical Practice 1	0	0	72
PARM 116	Field Externship 1	0	0	108
	<b>Total</b>	<b>96</b>	<b>7</b>	<b>180</b>

#### Block II

Course Code	Course Title	Lecture Hours	Lab Hours	Clinical Hours
PARM 112	Pharmacology	32	8	0
PARM 115	Pulmonary Pathophysiology & Therapeutics	16	8	0
	Advanced Emergency Treatment Interventions	0	16	0
PARM 116	Clinical Practice 2	0	0	60
PARM 116	Field Internship 2	0	0	84
	<b>Total</b>	<b>48</b>	<b>32</b>	<b>144</b>

#### Block III

Course Code	Course Title	Lecture Hours	Lab Hours	Clinical Hours
PARM 210	Cardiovascular Emergencies and Treatment	64	10	0
PARM 216	Clinical Practice 3	0	0	94
PARM 216	Field Internship 3	0	0	144
	<b>Total</b>	<b>64</b>	<b>10</b>	<b>238</b>

#### Block IV

Course Code	Course Title	Lecture Hours	Lab Hours	Clinical Hours
PARM 213	Medical Emergencies I	52	16	0
PARM 216	Clinical Practice 4	0	0	72
PARM 216	Field Externship 4	0	0	108
	<b>Total</b>	<b>52</b>	<b>16</b>	<b>180</b>

#### Block V

Course Code	Course Title	Lecture Hours	Lab Hours	Clinical Hours
PARM 2015	Medical Emergencies II	52	8	0
PARM 216	Clinical Practice 5	0	0	76
PARM 219	Field Internship 1	0	0	120
	<b>Total</b>	<b>52</b>	<b>8</b>	<b>238</b>

#### Block VI

Course Code	Course Title	Lecture Hours	Lab Hours	Clinical Hours T
PARM 200	Trauma	48	8	0
PARM 219	Clinical Practice 6	0	0	60
PARM 219	Field Internship 2	0	0	144
	<b>Total</b>	<b>48</b>	<b>8</b>	<b>238</b>

## Course Descriptions

### EMS Paramedic

#### **PARM 111 Introduction into Para-medicine/Anatomy and Physiology (60 Lecture hours, 7 lab hours)**

An advanced course of study that includes topics surrounding the business of supervision and management of an EMS Operation. Topics include documentation, billing, legalities, quality assurance, human resources, and communication techniques. A comprehensive Study of the physiology of human body organ systems as it relates to the provision of emergency medical care. This course also provides an overview of Common pathophysiological conditions encountered by the paramedic. Prerequisite: admission to the paramedic program.

#### **PARM 112 Pharmacology. (49 Lecture hours, 6 lab hours, Integrated into appropriate blocks)**

A comprehensive survey of drugs used in emergency medical care and an overview of common home medications. Topics include pharmacodynamics and pharmacokinetics, drug dosages, calculation and administration, terminology, and legal considerations. Prerequisite: admission to the paramedic program.

#### **PARM 115 Respiratory Emergencies and Respiratory Pharmacology. (24 Lecture Hours, 5.5 lab hours)**

Advanced study of the basic anatomy, pathophysiology, disease processes, evaluation and management of the respiratory system. Provides the student with advanced life support skills and techniques necessary to practice emergency medical care at the paramedic level. . Prerequisite: admission to the paramedic program.

#### **PARM 116 Field/Clinical Application I. (336 Field Hours, 226 Clinical Hours)**

Provides the student with the opportunity to review basic life support management and practice communications and patient rapport in a controlled clinical environment. Provides the student with the opportunity to practice clinical skills and scene management in the prehospital environment. Prerequisite: admission to the paramedic program.

#### **PARM 200 Trauma. (52 lecture hours, 3.5 lab hours, 3.5 credit hours)**

A comprehensive course of principles of trauma care. Introduction to the role and responsibilities of the paramedic, with an emphasis on workforce safety & wellness, social issues, crime scene awareness, EMS Operations & Incident Management, and Disaster Response & Terrorism. Prerequisite: admission to the paramedic program.

#### **PARM 210 Cardiac Emergencies/ECG Interpretation and Cardiac Pharmacology. (68 lecture hours, 32 lab hours)**

Study of basic anatomy, pathophysiology, disease processes, evaluation and management of the cardiovascular system. Management procedures include basic & 12 lead electrocardiogram interpretation, electrical and invasive therapeutic techniques of cardiovascular patient care. Advanced Life Support Certification (ACLS) Course is presented during this course. A comprehensive survey of drugs used in emergency medical care and an overview of common home medications. Topics include pharmacodynamics and pharmacokinetics, drug dosages, calculation and administration, terminology, and legal considerations. . Prerequisite: admission to the paramedic program.

#### **PARM 213 Medical Emergencies/ Pharmacology. 124 lecture hours, 36 lab hours)**

Study of basic Anatomy, Pathophysiology and treatment of medical and environmental emergencies. Topics include neurological trauma and disease, burns, bites and stings, substance abuse and toxicological emergencies, behavioral emergencies, hematology, OB and gynecological emergencies, pediatrics, gerontology, and communicable diseases. . Prerequisite: admission to the paramedic program.

#### **PARM 215 OB/Pediatric Emergencies/Pharmacology. (44 lecture hours, 4.0 lab hours)**

Pathophysiology and treatment of medical and environmental emergencies as it relates to OB and gynecological emergencies, pediatrics. Prerequisite: admission to the paramedic program.

#### **PARM 216 Field/Clinical Application 2. (324 Field hours, 208 clinical hours)**

Provides the student with the opportunity to practice clinical skills in the assigned clinical areas such as the Emergency Department, Cardiac Catheterization Lab, Surgery, Cadaver Lab, Intensive Care Units as well as the prehospital settings. Provides the student with the opportunity to practice clinical skills and scene management in the prehospital environment.

#### **PARM 219 Field/Clinical Application 3. (324 Field hours, 208 clinical hours)**

Provides the student with the opportunity to practice clinical skills in the assigned clinical areas such as the Emergency Department, Cardiac Catheterization Lab, Surgery, Cadaver Lab, Intensive Care Units as well as the

prehospital settings. Provides the student with the opportunity to practice clinical skills and scene management in the prehospital environment.

### **Terminal Awards**

Upon successful completion of the EMT program, each student must then participate in both written and practical examinations held by the National Registry of EMT's and the State of Indiana Department of Homeland Security. Upon successful completion of both the written and practical examinations, the graduate will receive certification from the State of Indiana and the National Registry of EMT's as an Emergency Medical Technician. Upon successful completion of the Paramedic program, the student will receive a certificate of completion from the EMS Education Department. Each student must then participate in both written and practical examinations held by the National Registry of EMT's. Upon successful completion of both, the student will become a Nationally Registered Paramedic and subsequently receives licensure to practice in the State of Indiana by the Indiana Department of Homeland Security.