



Emergency Medical Services

Program Information

A career in Emergency Medical Services is one that is certain to be rewarding and exciting. The satisfaction in the knowledge that you saved a life or made a difference in the outcome of a patient has no equal. The gratification felt while performing in an emergency situation is difficult to duplicate in any other type of career.

The Emergency Medical Services program at Trenholm State prepares students to become licensed Emergency Medical Technicians, Advanced Emergency Medical Technicians and Paramedics. Students are trained to deliver the pre-hospital care and transportation necessary for victims of accidents and persons experiencing medical emergencies. Students are provided instruction in the classroom, laboratory, and clinical settings.

Occupational Choices

A licensed Emergency Medical Services Provider may expect employment in a variety of both pre-hospital and other healthcare settings. Jobs are expected to grow by 15 percent from 2016 to 2026, much faster than the average for all occupations.^{U.S.}

Department of Labor Bureau of Labor Statistics, Occupational Outlook Handbook, 2016-2017, Survey: 2015
(<http://www.bls.gov/oooh/healthcare/emts-and-paramedics.htm>)

Average Full-Time Wage

The median annual wage for EMTs and paramedics was \$33,380 in May 2017. The median wage is the wage at which half the workers in an occupation earned more than that amount and half earned less. The lowest 10 percent earned less than \$21,880, and the highest 10 percent earned more than \$56,990.

Source: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2016-2026 Edition, 2018 Survey

Admission Criteria

EMT requires:

- Unconditional admission to the College.
- High school diploma or GED equivalent.
- 2.0 cumulative grade point average (GPA)
- Transcripts from high school and all post-secondary institutions attended.
- Acceptable ACCUPLACER or ACT/SAT scores. Required ACCUPLACER score: Elementary Algebra - 40 or Arithmetic - 70; Reading - 70, and Writing - 5. In lieu of ACCUPLACER, an ACT score of 20 on English and Math sections or an SAT score of 650 may be used.
- At least 18 years of age or will be 18 at time of course completion.
- Candidates must be able to meet all technical standards required of the program (see essential functions form for full details):
 - Sensory, auditory, tactile and olfactory sensory perception
 - Communication/Interpersonal Relations
 - Cognitive and critical thinking
 - Motor function
 - Professional Behavior
- Students in the Emergency Medical Services Program must meet the following requirements (completed at the student's expense) prior to and throughout enrollment in the program:
 - a) Verify absence of the use of drugs and alcohol by participation in random and scheduled drug/alcohol testing at the student's expense.
 - b) Undergo a criminal background screening.
 - c) Provide proof of all vaccinations designated by the program, and if needed, obtain required vaccinations or provide documentation of immunity.
 - d) Tuberculin skin test within the past 12 months and annually thereafter while enrolled
 - e) Purchase liability insurance through the college.

Estimated Program Length & Cost *

Award	Length	Credit Hours	Tuition Fees	Books	Tools	Supplies
Associate Degree **	6 Terms	71	\$11,005	\$1300	\$100	\$100
Certificate	5 Terms	58	\$8,990	\$650	\$100	\$100
Short Term Certificate	1 Term	11	\$1,705	\$225	\$100	\$100
Short Term Certificate(Adv)	1 Term	13	\$2,015	\$250	\$100	\$100

* Tax not included. Prices are subject to change without prior notice; cost of books may vary considerably among suppliers. Cost of general education books is in addition to the total listed above. The length of the program is based on full-time status of 12-15 credit hours per term. Enrollment in transitional level general education courses will alter the length of the program. **The Associate Degree program includes the Short Term EMT and the Advanced EMT Certificate.

- f) Undergo a student physical examination administered by a physician, nurse practitioner, or physician assistant prior to beginning clinical activities and annually while enrolled.
- Applicant must be able to read, speak and understand the English language.
 - Current valid driver's license.
 - Meet all general admission requirements for the College

Advanced EMT requires:

- Must meet all EMT admission requirements.
- Must have a current CPR certification for health care provider.
- Must have State of Alabama EMT license.

Paramedic level requires:

- Completion of items listed above for EMT and AEMT level admission requirements.
- Completion of ENG-101, MTH-100 or higher with a minimum grade of "C" prior to entering the final semester of paramedic.
- A current Advanced EMT Alabama license prior to the second semester of Paramedic courses.

Progression Requirements

Progression through the program requires:

1. A 2.0 cumulative GPA.
2. Minimum grade of "B" in all EMS courses.
3. Fulfillment of all course prerequisites.
4. A satisfactory level of mental and physical health including maintaining current immunizations, Hepatitis B vaccinations (or signed waiver), annual TB testing, and ability to meet the Essential Functions.
5. Current malpractice insurance.
6. Current CPR certification at the Health Care Provider or Professional Rescuer level.
7. Completion of all general education courses noted in degree plan prior to testing National Registry. If general education courses are completed at another institution, the courses must be accepted by Trenholm State.
8. Completion of ENG-101, MTH-100 or higher with a minimum grade of "C" prior to entering the final semester of paramedic.
9. No more than a 12-month interruption in matriculation through the Paramedic level course sequence.

Students who do not meet progression requirements may be required to withdraw from the program and apply for readmission

Readmission Requirements

Students who interrupt the specified progression through the program of study must apply for readmission to the program. Readmission requires:

1. A 2.0 cumulative GPA. If a student's GPA is less than 2.0, he/she will not be allowed to be readmitted into EMS courses. The student will need to take additional general education courses and elevate their GPA to the required level.
2. Ability to meet and comply with standards and policies in the current College Catalog and Student Handbook.
3. No more than a 12-month interruption in matriculation through the Paramedic level course sequence. Students who are currently licensed at the EMT level, will be readmitted at the AEMT level. Whereas, students who are currently licensed at the AEMT level, will be readmitted at the P-1 level.
4. Students who desire readmission to the program due to multiple failures of the NREMT exam will be required to meet with the Program Coordinator (prior to readmission) and develop a course study plan. These students will also be expected to periodically meet with the Program Coordinator and Medical Director to ensure appropriate course progression is being achieved. Typically, these students are readmitted into the program in accordance with requirements noted in number 3 above.

All students who withdraw from or are temporarily ineligible to progress through a program of study in the Allied Health Division will be readmitted under the College Catalog in effect during the year of readmission.

Awards Available

Associate of Applied Science
Emergency Medical Services
Paramedic

Certificate
Emergency Medical Technician/Paramedic

Short Term Certificate
Emergency Medical Services
EMT Concentration
Advanced EMT Concentration

Program Contact

Danny Perry
Program Coordinator/Instructor
334-420-4277
Location: Patterson Site - Bldg. Q

As part of ongoing planning and evaluation, the College regularly evaluates student learning outcomes for each program.

Associate of Applied Science Emergency Medical Services Paramedic

(Students must complete the EMT and Advanced EMT before advancing to Paramedic curriculum)

General Education Requirements (23 hours)

Area I - Written Composition (6 hours)

ENG-101	English Composition I ***	3
ENG-102	English Composition II ***	3
ENG-130	Technical Report Writing	3

Area II - Humanities & Fine Arts (3 hours)

(Humanities and Arts disciplines include but are not limited to: Area/Ethnic Studies, Art and Art History, Foreign Languages, Music and Music History, Philosophy, Ethics, Religious Studies, Theater and Dance.)

Note: If SPH-106, SPH-107, SPA-101 or SPA-102 has been taken an additional 3 semester hours in Humanities and Fine Arts must be taken to satisfy requirements in Area II.

Arts:

ART-100	Art Appreciation	3
MUS-101	Music Appreciation	3

Humanities:

PHL-106	Intro to Philosophy	3
PHL-200	Ethics in the Workplace	3
PHL-206	Ethics & Society	3
PHL-210	Ethics and the Health Sciences	3
REL-100	History of World Religions	3
REL-151	Survey of Old Testament	3
REL-152	Survey of New Testament	3
SPA-101	Intro Spanish I	3
SPA-102	Intro Spanish II	3
SPH-106	Fundamentals of Oral Comm	3
SPH-107	Fundamentals of Public Speaking	3

Literature:

ENG-251	American Literature I	3
ENG-252	American Literature II	3
ENG-261	English Literature I	3
ENG-262	English Literature II	3
ENG-271	World Literature I	3
ENG-272	World Literature II	3

Area III - Natural Science & Mathematics (11hours)

(In addition to Mathematics, disciplines in the Natural Sciences include: Astronomy, Biological Sciences, Chemistry, Geology, Physical Geography, Earth Science, Physics, and Physical Science.)

Note: 3 semester hours in MTH must be completed. Additional hours can be taken in the Natural Science area.

Mathematics:

MTH-100	Intermediate Algebra	3
MTH-103	Intro to Technical Mathematics	3
MTH-104	Plane Trigonometry	3
MTH-110	Finite Mathematics	3
MTH-112	Precalculus Algebra	3
MTH-116	Mathematical Applications	3

Natural Sciences:

BIO-101	Introduction to Biology I	4
BIO-102	Introduction to Biology II	4
BIO-103	Principles of Biology I	4

BIO-104	Principles of Biology II	4
BIO-201***	Human Anatomy & Physiology I	4
BIO-202***	Human Anatomy & Physiology II	4
PHS-111	Physical Science I	4
PHS-112	Physical Science II	4
PHY-120	Introduction to Physics	4

Area IV - History, Social & Behavioral Sciences (3 hours):

(Social and Behavioral Sciences include, but are not limited to: Anthropology, Economics, Geography, Political Science, Psychology, and Sociology.)

Note: Must complete 3 semester hours.

History:

HIS-101	Western Civilization I	3
HIS-102	Western Civilization II	3
HIS-121	World History I	3
HIS-122	World History II	3
HIS-201	United States History I	3
HIS-202	United States History II	3

Social and Behavioral Sciences:

PSY-200***	General Psychology	3
PSY-210	Human Growth and Development	3
SOC-200	Introduction to Sociology	3
POL-200	Introduction to Political Science	3
POL-211	American National Government	3

Area V: Pre-Professional/College Requirements:

(Courses appropriate to the degree requirements and major of the individual student and electives.)

College Requirements:

ORI-101	Orientation to College	1
EMS-118*	Emergency Medical Technician	9
EMS-119*	EMT Clinical	1
EMS-155**	Advanced EMT	7
EMS-156**	Adv Emergency Medical Technician Clinical	2
EMS-241	Paramedic Cardiology	3
EMS-242	Paramedic Patient Assessment	2
EMS-244	Paramedic Clinical I	1
EMS-245	Paramedic Medical Emergencies	3
EMS-246	Paramedic Trauma Management	3
EMS-247	Paramedic Special Populations	2
EMS-248	Paramedic Clinical II	3
EMS-253	Paramedic Transition to the Wkfr	2
EMS-254	Adv Competencies for Paramedic	2
EMS-255	Paramedic Field Preceptorship	5
EMS-257	Paramedic Applied Pharmacology	2

Electives:

CIS-146	Microcomputer Applications	3
EMS-107	Emergency Vehicle Operator Ambulance	1
EMS-189**	Applied Anatomy & Physiology for the Paramedic	4

* First semester is EMT.

**Third semester is Advanced EMT. Both are required before entering the Paramedic curriculum.

*** These courses are required for the Paramedic Associates Degree

Note: Students are also required to meet the College computer literacy requirements.

Area V Credit Hours: 48

Total Credit Hours: 71

Certificate Emergency Medical Services Technician/Paramedic

(Students must complete the EMT and Advanced EMT before advancing to Paramedic curriculum)

General Education Requirements (6 hours)

Area I - Written Composition (3 hours)

ENG-101	English Composition I ***	3
ENG-102	English Composition II	3
ENG-130	Technical Report Writing	3

Area II - Humanities & Fine Arts (0 hours)

(Humanities and Arts disciplines include but are not limited to: Area/Ethnic Studies, Art and Art History, Foreign Languages, Music and Music History, Philosophy, Ethics, Religious Studies, Theater and Dance.)

Note: If SPH-106, SPH-107, SPA-101 or SPA-102 has been taken an additional 3 semester hours in Humanities and Fine Arts must be taken to satisfy requirements in Area II.

Arts:

ART-100	Art Appreciation	3
MUS-101	Music Appreciation	3

Humanities:

PHL-106	Intro to Philosophy	3
PHL-200	Ethics in the Workplace	3
PHL-206	Ethics & Society	3
PHL-210	Ethics and the Health Sciences	3
REL-100	History of World Religions	3
REL-151	Survey of Old Testament	3
REL-152	Survey of New Testament	3
SPA-101	Intro Spanish I	3
SPA-102	Intro Spanish II	3
SPH-106	Fundamentals of Oral Comm	3
SPH-107	Fundamentals of Public Speaking	3

Literature:

ENG-251	American Literature I	3
ENG-252	American Literature II	3
ENG-261	English Literature I	3
ENG-262	English Literature II	3
ENG-271	World Literature I	3
ENG-272	World Literature II	3

Area III - Natural Science & Mathematics (3 hours)

(In addition to Mathematics, disciplines in the Natural Sciences include: Astronomy, Biological Sciences, Chemistry, Geology, Physical Geography, Earth Science, Physics, and Physical Science.)

Note: 3 semester hours in MTH must be completed. Additional hours can be taken in the Natural Science area.

Mathematics:

MTH-100	Intermediate Algebra	3
MTH-103	Intro to Technical Mathematics	3
MTH-104	Plane Trigonometry	3
MTH-110	Finite Mathematics	3
MTH-112	Precalculus Algebra	3
MTH-116	Mathematical Applications ***	3

Natural Sciences:

BIO-101	Introduction to Biology I	4
BIO-102	Introduction to Biology II	4

BIO-103	Principles of Biology I	4
BIO-104	Principles of Biology II	4
BIO-201	Human Anatomy & Physiology I	4
BIO-202	Human Anatomy & Physiology II	4
PHS-111	Physical Science I	4
PHS-112	Physical Science II	4
PHY-120	Introduction to Physics	4

Area IV - History, Social & Behavioral Sciences (0 hours):

(Social and Behavioral Sciences include, but are not limited to: Anthropology, Economics, Geography, Political Science, Psychology, and Sociology.)

History:

HIS-101	Western Civilization I	3
HIS-102	Western Civilization II	3
HIS-121	World History I	3
HIS-122	World History II	3
HIS-201	United States History I	3
HIS-202	United States History II	3

Social and Behavioral Sciences:

PSY-200	General Psychology	3
PSY-210	Human Growth and Development	3
SOC-200	Introduction to Sociology	3
POL-200	Introduction to Political Science	3
POL-211	American National Government	3

Area V: Pre-Professional/College Requirements:

(Courses appropriate to the degree requirements and major of the individual student and electives.)

College Requirements:

ORI-101	Orientation to College	1
EMS-118*	Emergency Medical Technician	9
EMS-119*	EMT Clinical	1
EMS-155**	Advanced EMT	7
EMS-156**	Adv Emergency Medical Technician Clinical	2
EMS-189**	Applied Anatomy & Physiology for the Paramedic	4
EMS-241	Paramedic Cardiology	3
EMS-242	Paramedic Patient Assessment	2
EMS-244	Paramedic Clinical I	1
EMS-245	Paramedic Medical Emergencies	3
EMS-246	Paramedic Trauma Management	3
EMS-247	Paramedic Special Populations	2
EMS-248	Paramedic Clinical II	3
EMS-253	Paramedic Transition to the Wkfr	2
EMS-254	Adv Competencies for Paramedic	2
EMS-255	Paramedic Field Preceptorship	5
EMS-257	Paramedical Applied Pharmacology	2

Electives:

EMS-107	Emergency Vehicle Operator Ambulance	1
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* Required prior to entry into AEMT Courses (EMS-155 & EMS-156)

** Required prior to entry into Paramedical Courses (3rd semester)

*** Will need to take as an online course due to shift schedule; be sure to register during early registration to ensure placement in online course; failure to register early may prevent being registered in online class. Must be completed prior to beginning final semester of paramedic.

Area V Credit Hours: 58

Total Credit Hours: 64

**Short Term Certificate
Emergency Medical Services
EMT Concentration**

(This award is not Pell Grant Eligible)

**(Students must complete EMT before
advancing to Advanced EMT)**

Area V: Pre-Professional/College Requirements:
(Courses appropriate to the degree requirements and major of the individual student and electives.)

College Requirements:

ORI-101	Orientation to College	1
EMS-118	Emergency Medical Technician	9
EMS-119	Emergency Medical Technician Clinical	1

Electives:

EMS-107	Emergency Vehicle Operator Ambulance	1
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Total Credit Hours: 11

**Short Term Certificate
Emergency Medical Services
Advanced EMT Concentration**

(This award is not Pell Grant Eligible)

**(Students must complete the Advanced EMT
before advancing to Paramedic curriculum)**

Area V: Pre-Professional/College Requirements:
(Courses appropriate to the degree requirements and major of the individual student and electives.)

College Requirements:

ORI-101	Orientation to College	1
EMS-189*	Applied Anatomy & Physiology for the Paramedic	4
EMS-155	Adv Emergency Medical Technician	7
EMS-156	Adv Emergency Medical Technician Clinical	2

*EMS-189 may be substituted with BIO-201 and BIO-202

Total Credit Hours: 13

Course Descriptions Emergency Medical Services

Course #	Course Title	Credit Hours
EMS-107	EMERGENCY VEHICLE OPERATOR AMBULANCE PREREQUISITE: None The Emergency Vehicle Operator Course - Ambulance provides the student with training as contained in the current National Standard Training Curriculum (NSTC) for the Emergency Vehicle Operator Course (EVOC) Ambulance. The course provides the knowledge and skill practice necessary for individuals to learn how to safely operate all types of ambulances. Topics include introduction to the NSTC for ambulance operators; legal aspects of ambulance operation; communication and reporting; roles and responsibilities; ambulance types and operation; ambulance inspection, maintenance, and repair; navigation and route planning; basic maneuvers and normal operating situations; operations in emergency mode and unusual situations, special considerations in safety; and the run. Completion of specific student competencies, utilizing NSTC guidelines, are required for successful completion of this course. NOTE: To qualify for licensure status as an ambulance driver in the State of Alabama, students must successfully complete this course and meet additional requirements as required by the Alabama Department of Public Health.	1
EMS-118	EMS BASIC THEORY AND LAB PREREQUISITE: None This course is required to apply for certification as an Emergency Medical Technician. This course provides students with insights into the theory and application of concepts related to the profession of emergency medical services. Specific topics include: EMS preparatory, airway maintenance, patient assessment, management of trauma patients, management of medical patients, treating infants and children, and various EMS operations. This course is based on the NHTSA National Emergency Medical Services Education Standards	9
EMS-119	EMS BASIC CLINICAL COMPETENCIES PREREQUISITE: None This course is required to apply for certification as an EMS. This course provides students with clinical education experiences to enhance knowledge and skills learned in the EMS-118, Emergency Medical Technician Theory and Lab. This course helps students prepare for the National Registry Exam	1
EMS-155	ADVANCED EMERGENCY MEDICAL TECHNICIAN PREREQUISITE: Completion of the EMT curriculum, current licensure as an EMT and completion of BIO-201 COREQUISITE: EMS-156 and BIO-202 This course is required to apply for certification as an Advanced Emergency Medical Technician (AEMT). This course introduces the theory and application of concepts related to the profession of the AEMT. The primary focus of the AEMT is to provide basic and limited advanced emergency medical care and transportation for critical and emergent patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care and transportation. Topics include: extending the knowledge of the EMT to a more complex breadth and depth, intravenous access and fluid therapy, medication administration, blind insertion airway devices, as well as the advanced assessment and management of various medical illnesses and traumatic injuries. This course is based on the NHTSA National Emergency Medical Services Education Standards. Requires licensure or eligibility for licensure at the EMT level and EMS-156 must be taken as a co-requisite.	7
EMS-156	ADVANCED EMERGENCY MEDICAL TECHNICIAN CLINICAL PREREQUISITE: Completion of the EMT curriculum, current licensure as an EMT and completion of BIO-201 COREQUISITE: EMS-155 and BIO-202 This course is required to apply for certification as an Advanced Emergency Medical Technician (AEMT). This course provides students with clinical education experiences to enhance knowledge and skills learned in EMS-155. This course helps prepare students for the National Registry AEMT Exam. The student will have the opportunity to use the basic and advanced skills of the AEMT in the clinical and field settings under the direct supervision of licensed healthcare professionals. Requires licensure or eligibility for licensure at the EMT level and EMS-155 must be taken as a co-requisite.	2

Course #	Course Title	Credit Hours
EMS-189	APPLIED ANATOMY AND PHYSIOLOGY FOR THE PARAMEDIC	4
	PREREQUISITE: As required by program. NOTE: EMS-189 or BIO-201 and BIO-202 is a prerequisite for the first Paramedic course. This course introduces human anatomy and physiology and includes concepts related to basic chemistry; fluid, electrolyte, and acid-base balance; functions of cells, tissues, organs, and systems; pathophysiology; and associated medical terminology. Emphasis is placed on applying content to signs, symptoms, and treatments; and situations commonly seen by paramedics. Upon course completion, students should be able to demonstrate a basic understanding of the structure and function of the human body.	
EMS-241	PARAMEDIC CARDIOLOGY	3
	PREREQUISITE: Completion of Advanced EMT or Licensure as an Advanced EMT This course introduces the cardiovascular system, cardiovascular electrophysiology, and electrocardiographic monitoring. This course further relates pathophysiology and assessment findings to the formulation of field impressions and implementation of treatment plans for specific cardiovascular conditions. Content areas include: cardiovascular anatomy and physiology, cardiovascular electrophysiology, electrocardiographic monitoring, rhythm analysis, pre-hospital 12-lead electrocardiogram monitoring and interpretation, assessment of the cardiovascular patient, pathophysiology of cardiovascular disease and techniques of management including appropriate pharmacologic agents and electrical therapy.	
EMS-242	PARAMEDIC PATIENT ASSESSMENT	2
	PREREQUISITE: Completion of Advanced EMT or Licensure as an Advanced EMT This course provides the knowledge and skills needed to perform a comprehensive patient assessment, make initial management decisions, and to communicate assessment findings and patient care verbally and in writing. Content areas include: airway management, history taking, techniques of the physical examination, patient assessment, clinical decision making, communications, documentation and assessment based management.	
EMS-244	PARAMEDIC CLINICAL I	1
	PREREQUISITE: Licensure as an Advanced EMT; Completion of EMS-241, EMS-242, EMS-243, and EMS-257 This course is directed toward the application of knowledge and skills developed in didactic and skills laboratory experiences to the clinical setting. Theory and skills are applied to a variety of patient situations in the clinical setting, with a focus on patient assessment and management, advanced airway management, electro-therapy, I.V. /I.O. initiation and medication administration.	
EMS-245	PARAMEDIC MEDICAL EMERGENCIES	3
	PREREQUISITE: Licensure as an Advanced EMT; Completion of EMS-241, EMS-242, EMS-243, and EMS-257 This course relates pathophysiology and assessment findings to the formulation of field impressions and implementation of treatment plans for specific medical conditions. Content areas include: pulmonology, neurology, gastroenterology, renal/urology, toxicology, hematology, environmental conditions, infectious and communicable diseases, abuse and assault, patients with special challenges, and acute interventions for the chronic care patient.	
EMS-246	PARAMEDIC TRAUMA MANAGEMENT	3
	PREREQUISITE: Licensure as an Advanced EMT; Completion of EMS-241, EMS-242, EMS-243, and EMS-257 This course relates pathophysiology and assessment findings to the formulation of field impressions and implementation of treatment plans for trauma patients. Content areas include the pathophysiology, assessment, and management of trauma as related to: trauma systems; mechanisms of injury; hemorrhage and shock; soft tissue injuries; burns; and head, facial, spinal, thoracic, abdominal, and musculoskeletal trauma.	
EMS-247	PARAMEDIC SPECIAL POPULATIONS	2
	PREREQUISITE: Licensure as an Advanced EMT This course relates pathophysiology and assessment findings to the formulation of field impressions and implementation of treatment plans for specific medical conditions. Content areas include: endocrinology, allergies and anaphylaxis, behavioral/psychiatric conditions, gynecology, obstetrics, neonatology, pediatrics, and geriatrics. In the clinical setting, theory and skills are applied to a variety of medical situations across the life span of the patient, with a focus on communication with and management of cardiac, acute care, psychiatric/behavioral, obstetrical, newborn, pediatric, geriatric, and acute interventions for chronic care patients, and patients with special challenges.	

Course #	Course Title	Credit Hours
EMS-248	PARAMEDIC CLINICAL II	3
	PREREQUISITE: Licensure as an Advanced EMT; Completion of EMS-241, EMS-242, EMS-243, and EMS-257 This course is required to apply for certification as a Paramedic. This course provides students with clinical education experiences to enhance knowledge and skills learned in EMS-245, 246, and 247 and knowledge and proficiency from previous clinical experiences. This course helps prepare students for the National Registry Paramedic Exam. The student will have the opportunity to use the basic and advanced skills of the Paramedic in the clinical setting under the direct supervision of licensed healthcare professionals. Requires licensure at the AEMT level.	
EMS-253	PARAMEDIC TRANSITION TO THE WORKFORCE	2
	PREREQUISITE: Licensure as an Advanced EMT; Completion of EMS-241, EMS-242, EMS-243, EMS-244, EMS-245, EMS-246, EMS-247, EMS-248, AND EMS-257, ENG-101 and MTH-116 This course is designed to meet additional state and local educational requirements for paramedic practice. Content may include: prehospital protocols, transfer medications, topics in critical care and transport, systems presentation, and/or national standard certification courses as dictated by local needs or state requirement.	
EMS-254	ADVANCED COMPETENCIES FOR PARAMEDIC	2
	PREREQUISITE: Licensure as an Advanced EMT; Completion of EMS-241, EMS-242, EMS-243, EMS-244, EMS-245, EMS-246, EMS-247, EMS-248, AND EMS-257, ENG-101 and MTH-116 This course is designed to assist students in preparation for the paramedic licensure examination. Emphasis is placed on validation of knowledge and skills through didactic review, skills lab performance, and/or computer simulation and practice testing. Upon course completion, students should be sufficiently prepared to sit for the paramedic licensure examination.	
EMS-255	PARAMEDIC FIELD PRECEPTORS	5
	PREREQUISITE: Licensure as an Advanced EMT; Completion of EMS-241, EMS-242, EMS-243, EMS-244, EMS-245, EMS-246, EMS-247, EMS-248, AND EMS-257, ENG-101 and MTH-116 This course is required to apply for certification as a paramedic. This course provides students with field experiences to enhance knowledge and skills learned throughout the paramedic program. This course helps prepare students for the National Registry Paramedic Exam. Students will utilize paramedic skills in a field setting under the direct supervision of a licensed paramedic.	
EMS-257	PARAMEDIC APPLIED PHARMACOLOGY	2
	PREREQUISITE: Completion of Advanced EMT or Licensure as an Advanced EMT This course introduces basic and advanced pharmacological agents and concepts, with an emphasis on drug classifications and the knowledge and skills required for safe, effective medication administration. Medication pharmacokinetics and pharmacodynamics will be evaluated for most medicines used in the pre-hospital setting. Students will also learn how to establish various routes of medication administration and procedures for administering medications via these routes. Students will also demonstrate mathematic computations for various drug and solution dose administration problems.	