



1247 Jimmie Kerr Rd.  
Graham, NC 27253

336-506-4299  
[www.alamancecc.edu/ems](http://www.alamancecc.edu/ems)

*Course Description*

<i>Course Code</i>	<i>Course Title</i>	<i>Class Hours</i>	<i>Lab Hours</i>	<i>Clinical Hours</i>
<i>EMS Core Courses</i>				
<b>EMS-110</b>	<b>EMT</b>	<i>6</i>	<i>6</i>	<i>3</i>
<b>Description</b>	This course introduces basic emergency medical care. Topics include preparatory, airway, patient assessment, medical emergencies, trauma, infants and children, and operations. Upon completion, students should be able to demonstrate the knowledge and skills necessary to achieve North Carolina State or National Registry EMT certification.			
<b>EMS-122</b>	<b>EMS Clinical Practicum I</b>			<i>3</i>
<b>Description</b>	This course provides the introductory hospital clinical experience for the paramedic student. Emphasis is placed on mastering fundamental paramedic skills. Upon completion, students should be able to demonstrate competence with fundamental paramedic level skills.			
<b>EMS-130</b>	<b>Pharmacology</b>	<i>3</i>	<i>3</i>	
<b>Description</b>	This course introduces the fundamental principles of pharmacology and medication administration and is required for paramedic certification. Topics include medical terminology, pharmacological concepts, weights, measures, drug calculations, vascular access for fluids and medication administration and legislation. Upon completion, students should be able to accurately calculate drug dosages, properly administer medications, and demonstrate general knowledge of pharmacology.			
<b>EMS-131</b>	<b>Advanced Airway Management</b>	<i>1</i>	<i>2</i>	
<b>Description</b>	This course is designed to provide advanced airway management techniques and is required for paramedic certification. Topics must meet current guidelines for advanced airway management in the pre-hospital setting. Upon completion, students should be able to properly utilize all airway adjuncts and pharmacology associated with airway control and maintenance.			



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<b>EMS-140</b>	<b>Rescue Scene Management</b>	<i>1</i>	<i>3</i>	
<b>Description</b>	This course introduces rescue scene management. Topics include response to hazardous material conditions, incident command, and extrication of patients from a variety of situations. Upon completion, students should be able to recognize and manage rescue operations based upon initial and follow-up scene assessment.			
<b>EMS-160</b>	<b>Cardiology I</b>	<i>2</i>	<i>3</i>	
<b>Description</b>	This course introduces the study of cardiovascular emergencies and is required for paramedic certification. Topics include anatomy and physiology, pathophysiology, electrophysiology, and rhythm interpretation. Upon completion, students should be able to recognize and interpret rhythms.			
<b>EMS-210</b>	<b>Advanced Patient Assessment</b>	<i>1</i>	<i>3</i>	
<b>Description</b>	This course covers advanced patient assessment techniques and is required for paramedic certification. Topics include initial assessment, medical-trauma history, field impression, complete physical exam process, on-going assessment, and documentation skills. Upon completion, students should be able to utilize basic communication skills and record and report collected patient data.			
<b>EMS-220</b>	<b>Cardiology II</b>	<i>2</i>	<i>3</i>	
<b>Description</b>	This course provides an in-depth study of cardiovascular emergencies and is required for paramedic certification. Topics include assessment and treatment of cardiac emergencies, cardiac pharmacology, and patient care. Upon completion, students should be able to manage the cardiac patient.			
<b>EMS-221</b>	<b>EMS Clinical Practicum II</b>			<i>6</i>
<b>Description</b>	This course provides clinical experiences in the hospital and/or field. Emphasis is placed on increasing the proficiency of students' skills and abilities in patient assessments and the delivery of care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care.			



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<b>EMS-231</b>	<b>EMS Clinical Practicum III</b>			<b>9</b>
<b>Description</b>	This course provides clinical experiences in the hospital and/or field. Emphasis is placed on enhancing the students' skills and abilities in providing advanced-level care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care.			
<b>EMS-235</b>	<b>EMS Management</b>	<b>2</b>		
<b>Description</b>	This course stresses the principles of managing a modern emergency medical service system. Topics include structure and function of municipal governments, EMS grantsmanship, finance, regulatory agencies, system management, legal issues, and other topics relevant to the EMS manager. Upon completion, students should be able to understand the principles of managing emergency medical service delivery systems.			
<b>EMS-240</b>	<b>Patients with Special Challenges</b>	<b>1</b>	<b>2</b>	
<b>Description</b>	This course includes concepts of crisis intervention and techniques of interacting with patients with special challenges and is required for paramedic certification. Topics include appropriate intervention and interaction for neglected, abused, terminally ill, chronically ill, technology assisted, bariatric, physically challenged, mentally challenged, or assaulted patients as well as behavioral emergencies. Upon completion, students should be able to recognize and manage the care of patients with special challenges.			
<b>EMS-241</b>	<b>EMS Clinical Practicum IV</b>			<b>12</b>
<b>Description</b>	This course provides clinical experiences in the hospital and/or field. Emphasis is placed on mastering the skills/competencies required of the paramedic providing advanced-level care. Upon completion, students should be able to provide advanced-level patient care as an entry-level paramedic.			



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<b>EMS-250</b>	<b>Medical Emergencies</b>	<i>3</i>	<i>3</i>	
<b>Description</b>	This course provides an in-depth study of medical conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include appropriate interventions/treatments for disorders/diseases/injuries affecting the following systems: respiratory, neurological, abdominal/gastrointestinal, endocrine, genitourinary, musculoskeletal, and immunological as well as toxicology, infectious diseases and diseases of the eyes, ears, nose and throat. Upon completion, students should be able to recognize, assess and manage the care of frequently encountered medical conditions based upon initial patient assessment.			
<b>EMS-260</b>	<b>Trauma Emergencies</b>	<i>1</i>	<i>3</i>	
<b>Description</b>	This course provides in-depth study of trauma including pharmacological interventions for conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include an overview of thoracic, abdominal, genitourinary, orthopedic, neurological, and multi-system trauma, soft tissue trauma of the head, neck, and face as well as environmental emergencies. Upon completion, students should be able to recognize and manage trauma situations based upon patient assessment and should adhere to standards of care.			
<b>EMS-270</b>	<b>Life Span Emergencies</b>	<i>3</i>	<i>3</i>	
<b>Description</b>	This course covers medical/ethical/legal issues and the spectrum of age-specific emergencies from conception through death required for paramedic certification. Topics include gynecological, obstetrical, neonatal, pediatric, and geriatric emergencies and pharmacological therapeutics. Upon completion, students should be able to recognize and treat age-specific emergencies.			
<b>EMS-280</b>	<b>EMS Bridging Course</b>	<i>2</i>	<i>2</i>	
<b>Description</b>	This course is designed to provide currently credentialed state or national Paramedic students with the most current education trends in Paramedic Practice. Emphasis is placed on transitions in healthcare. Upon completion, students should be able to integrate emerging trends in pre-hospital care.			



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EMS-285	EMS Capstone	1	3	
<b>Description</b>	This course provides an opportunity to demonstrate problem-solving skills as a team leader in simulated patient scenarios and is required for paramedic certification. Emphasis is placed on critical thinking, integration of didactic and psychomotor skills, and effective performance in simulated emergency situations. Upon completion, students should be able to recognize and appropriately respond to a variety of EMS-related events.			