COURSE DESCRIPTIONS BY COURSE DISCIPLINE PREFIX

EMS EMERGENCY MEDICAL SCIENCE

EMS-110 EMT **9 (6-6-3)** **Fall Spring Summer**

Prerequisites: ENG-002[L] or BSP-4002[L], MAT-003[L] or BSP-4003[L]
Corequisites: None
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.(2019 SP)

EMS-115 Defense Tactics for EMS **2 (1-3)** **AND**
Prerequisites: None
Corequisites: None
This course is designed to provide tactics that can be used for self-protection in dangerous and violent situations. Emphasis is placed on prediction, recognition, and response to dangerous and violent situations. Upon completion, students should be able to recognize potentially hostile situations and protect themselves during a confrontation.(1997 SU)

EMS-120 Advanced EMT **6 (4-6)** **AND**
Prerequisites: EMS-110[S]
Corequisites: EMS-121[S]
This course is designed to provide the essential information on pre-hospital management techniques appropriate to the level of the Advanced EMT. Topics must meet current credentialing and/or regulatory guidelines for the Advanced EMT as outlined by the NC Office of EMS. Upon completion, students should be able to demonstrate competency at the Advanced EMT level.(2019 SP)

EMS-121 AEMT Clinical Practicum **2 (0-0-6)** **AND**
Prerequisites: EMS-110[S]
Corequisites: EMS-120[S]
This course provides the hospital and field internship/clinical experiences required in preparation for the Advanced EMT certification. Emphasis is placed on performing patient assessments, treatments, and interactions appropriate at the Advanced EMT level of care. Upon completion, students should be able to demonstrate competency at the Advanced EMT skill level.(2019 SP)

EMS-122 EMS Clinical Practicum I **1 (0-0-3)** **Spring**
Prerequisites: EMS-110[S]
Corequisites: None
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 competency with fundamental paramedic level skills.(2019 SP)

EMS-125 EMS Instructor Methodology 3 (2-2) AND
Prerequisites: None
Corequisites: None
This course covers the information needed to develop and instruct EMS courses. Topics include instructional methods, lesson plan development, time management skills, and theories of adult learning. Upon completion, students should be able to teach EMS courses and meet the North Carolina EMS requirements for instructor methodology.(2019 SP)

EMS-130 Pharmacology 4 (3-3) Spring
Prerequisites: EMS-110[S]
Corequisites: None
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.(2019 SP)

EMS-131 Advanced Airway Management 2 (1-2) Spring
Prerequisites: EMS-110[S]
Corequisites: None
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.(2019 SP)

EMS-140 Rescue Scene Management 2 (1-3) Spring
Prerequisites: None
Corequisites: None
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. (2014 SP)

EMS-150 Emergency Vehicles & EMS Comm 2 (1-3) AND
Prerequisites: None
Corequisites: None
This course covers the principles governing emergency vehicles, maintenance of emergency vehicles, and EMS communication equipment. Topics include applicable motor vehicle laws affecting emergency vehicle operation, defensive driving, collision avoidance techniques, communication systems, and information management systems. Upon completion, students should have a basic knowledge of emergency vehicles, maintenance, and communication needs.(2014 SP)

EMS-160 Cardiology I 3 (2-3) Spring
Prerequisites: EMS-110[S]
Corequisites: None
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.(2019 SP)

EMS-210 Adv. Patient Assessment 2 (1-3) Spring
Prerequisites: EMS-110[S]
Corequisites: None
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.(2019 SP)

EMS-220 Cardiology II 3 (2-3) Summer
Prerequisites: EMS-122[S], EMS-130[S], and EMS-160[S]
Corequisites: None
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.(2019 SP)

EMS-221 EMS Clinical Practicum II 2 (0-0-6) Summer
Prerequisites: EMS-121[S] or EMS-122[S]
Corequisites: None
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.(2019 SP)

EMS-231 EMS Clinical Pract III 3 (0-0-9) Fall
Prerequisites: EMS-221[S]
Corequisites: None
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.(2014 SP)

EMS-235 EMS Management 2 (2-0) AND
Prerequisites: None
Corequisites: None
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.(1997 SU)

EMS-240 Patients W/ Special Challenges 2 (1-2) Fall
Prerequisites: EMS-122[S] and EMS-130[S]
Corequisites: None
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.(2014 SP)

EMS-241 EMS Clinical Practicum IV 4 (0-0-12) Spring
Prerequisites: EMS-231[S]
Corequisites: None
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.(2014 SP)

EMS-243 Wilderness EMT 2 (1-2) AND
Prerequisites: EMS-110[S]
Corequisites: None
This course provides an overview of emergency care when separated from definitive care by distance, time, or circumstance. Topics include principles of long-term patient care, wilderness patient assessment system, medical and environmental emergencies, medication administration, modified CPR, and spine management. Upon completion, students should be able to demonstrate the knowledge and skills necessary to gain Wilderness-EMT certification.(2012 SP)

EMS-250 Medical Emergencies 4 (3-3) Fall
Prerequisites: EMS-122[S] and EMS-130[S]
Corequisites: None
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.(2014 SP)

EMS-260 Trauma Emergencies 2 (1-3) Summer
Prerequisites: EMS-122[S] and EMS-130[S]
Corequisites: None
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. (2014 SP)

EMS-270 Life Span Emergencies 4 (3-3) Fall
Prerequisites: EMS-122[S] and EMS-130[S]
Corequisites: None
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.(2019 SP)

EMS-280 EMS Bridging Course 3 (2-2) AND
Prerequisites: None
Corequisites: None
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.(2019 SP)

EMS-285 EMS Capstone 2 (1-3) Spring
Prerequisites: EMS-220[S], EMS-250[S], EMS-260[S]
Corequisites: None
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.(1997 SU)