

# EMERGENCY MEDICAL TECHNOLOGY (EMT)

## EMT-1302 Emergency Medical Technician - Basic 6 Credits

Comprehensive study of basic life support skills of Emergency Medical Technician based on the U.S. Department of Transportation National Standard EMT Curriculum and State of Ohio EMT curriculum requirements, most current version. Includes recognition of nature and seriousness of patient's condition or extent of injuries; and assessing requirements of emergency care, lifting, moving, handling and transporting patients as part of pre-hospital emergency care system. Successful completion of American Heart Association-Basic Life Support for the Healthcare Provider Course component of course required to successfully complete EMT-1302. Successful Completion of EMT-1302 and EMT-130L required for NREMT and State of Ohio EMT certification.

*Lecture: 5 hours. Laboratory: 2 hours*

*Prerequisite(s): Eligibility for ENG-1010 College Composition I; and eligibility for MATH-0955 Beginning Algebra, or eligibility to enroll in a math co-requisite pathway of MATH-0930 Essential Skills for Algebraic and Quantitative Reasoning and MATH-1190 Quantitative Reasoning, or eligibility to enroll in a math co-requisite pathway of MATH-0970 Essential Skills for Probability and Statistics and MATH-1410 Elementary Probability and Statistics on placement exams; and concurrent enrollment in EMT-1302 Emergency Medical Technician, and departmental approval: admission to the program. Note: ENG-0990 Language Fundamentals II taken prior to Fall 2021 will also meet prerequisite requirements. CTAN Approved: Career Technical Assurance Guide CTEMS002 (1 of 2 courses, both must be taken) and and Industry-Recognized Transfer Assurance Guide ITEMS002 (1 of 2 courses, both must be taken).*

## EMT-130L EMT Basic Practical Lab 1 Credit

This course provides the simulation labs and directed practice to complete the requirements for National Registry of EMTs (NREMT) EMT certification. This is the primary requirement for State of Ohio EMT Certification.

*Laboratory: 1.5 hour*

*Other Required Hours: 37.5 Hours of directed practice performed in program approved external sites.*

*Prerequisite(s): Eligibility for ENG-1010 College Composition I; and eligibility for MATH-0955 Beginning Algebra, or eligibility to enroll in a math co-requisite pathway of MATH-0930 Essential Skills for Algebraic and Quantitative Reasoning and MATH-1190 Quantitative Reasoning, or eligibility to enroll in a math co-requisite pathway of MATH-0970 Essential Skills for Probability and Statistics and MATH-1410 Elementary Probability and Statistics on placement exams; and concurrent enrollment in EMT-1302 Emergency Medical Technician, and departmental approval: admission to the program. Note: ENG-0990 Language Fundamentals II taken prior to Fall 2021 will also meet prerequisite requirements. CTAN Approved: Career Technical Assurance Guide CTEMS002 (2 of 2 courses, both must be taken) and and Industry-Recognized Transfer Assurance Guide ITEMS002 (2 of 2 courses, both must be taken).*

## EMT-1310 Cardiopulmonary Resuscitation 1 Credit

Designed to teach the skills of CPR for victims of all ages, ventilation with barrier devices, use of an automated external defibrillator (AED), and relief of foreign-body airway obstruction. Intended for participants who provide health care in a variety of settings. The course also provides first aid basics for the most common first aid emergencies. Upon successful completion of the course, including a written and skills test, students receive an American Heart Association Basic Life Support course completion card.

*Lecture: 1 hours*

*Prerequisite(s): None. CTAN Approved: Career Technical Assurance Guide CTEMS004 (1 of 6 courses, all must be taken) and and Industry-Recognized Transfer Assurance Guide ITEMS004 (1 of 6 courses, all must be taken).*

## EMT-1320 Heavy Rescue 2 Credits

Techniques of heavy rescue, safe management of equipment used in heavy rescue, entrapment and patient extrication.

*Lecture: 1 hour. Laboratory: 2 hours*

*Prerequisite(s): Departmental approval: certified EMT-B; emergency workers must be in good health or have physicians verification, must be able to lift 75 pounds. CTAN Approved: Career Technical Assurance Guide CTEFF003 (5 of 5 courses, all must be taken)*

## EMT-1330 Defensive Driving - EMT 1 Credit

Principles and practices of defensive driving related to emergency rescue vehicles including laws, conditions of accidents and methods of avoiding accidents.

*Laboratory: 2 hours*

*Prerequisite(s): Departmental approval: admission to program, or certified EMT-B, or working with safety forces; must have valid Ohio drivers license.*

## EMT-1401 Anatomy & Physiology for Paramedics 4 Credits

Basic structure and function of body systems and diseases of these systems to provide a foundation for EMT and paramedic certification.

*Lecture: 4 hours*

*Prerequisite(s): None.*

## EMT-2330 Paramedic Theory I 6 Credits

Principles and practices of emergency medical technician paramedics based on the Department of Transportation National Standard Paramedic Curriculum, current to at least 2011, and the State of Ohio Paramedic Curriculum effective 2012. Includes roles and responsibilities, Emergency Medical Services systems, well-being of the paramedic, therapeutic communications, medical/legal considerations, stress management and life span development.

*Lecture: 4 hours. Laboratory: 4 hours*

*Prerequisite(s): BIO-2331 Anatomy and Physiology I, and BIO-2341 Anatomy and Physiology II; or EMT-1401 Anatomy & Physiology for Paramedics; and current Ohio Certified EMT-B, and departmental approval. CTAN Approved: Career Technical Assurance Guide CTEMS004 (2 of 6 courses, all must be taken).*

### **EMT-2340 Paramedic Theory II**

#### **6 Credits**

Principles and practices of paramedic based on the current Department of Transportation National EMS scope of practice model and education standards and the current State of Ohio Paramedic Curriculum. Includes airway management, physical examination, trauma systems with mechanism of injury, hemorrhage and shock, trauma assessment and management related to: soft tissue, musculoskeletal, head, face, spinal, thoracic and abdominal injuries including burns.

*Lecture: 4 hours. Laboratory: 3 hours*

*Other Required Hours: Directed Practice: 112 hours per semester.*

*Prerequisite(s): EMT-2350 Paramedic Theory III, and departmental approval: current Ohio EMT-B certification. CTAN Approved: Career Technical Assurance Guide CTEMS004 (3 of 6 courses, all must be taken) and and Industry-Recognized Transfer Assurance Guide ITEMS004 (3 of 6 courses, all must be taken).*

### **EMT-2350 Paramedic Theory III**

#### **6 Credits**

Principles and practices of emergency medical technician paramedics based on the Department of Transportation National Standard Paramedic Curriculum, current to at least 2011, and the State of Ohio Paramedic Curriculum effective 2012. Includes anatomy and physiology of the pulmonary system, assessment and treatment of pulmonary emergencies, anatomy and physiology of cardiovascular system, assessment of cardiac and stroke patient, EKG interpretation, cardiac and stroke treatment modalities, cardiac treatment pharmacology, defibrillation, and advanced cardiac life support.

*Lecture: 4 hours. Laboratory: 3 hours*

*Other Required Hours: Directed Practice: 112 hours per semester*

*Prerequisite(s): EMT-2330 Paramedic Theory I, and departmental approval: Ohio EMT-B certification. CTAN Approved: Career Technical Assurance Guide CTEMS004 (4 of 6 courses, all must be taken) and Industry-Recognized Transfer Assurance Guide ITEMS004 (4 of 6 courses, all must be taken).*

### **EMT-2360 Paramedic Theory IV**

#### **6 Credits**

Principles and practices of the paramedic based on current Department of Transportation National EMS scope of practice model and education standards, current State of Ohio Paramedic Curriculum. Management of endocrine, GI, renal/urological, toxicology, hematology, infectious, environmental and behavioral emergencies. Management of special needs patients (geriatric, pediatric, and neonatal) along with assessment and treatment of the OB/GYN patient and emergency field delivery procedures along with basic orientation in ambulance operations, hazardous materials, rescue awareness and crime scene awareness.

*Lecture: 4 hours. Laboratory: 3 hours*

*Other Required Hours: Directed Practice: 112 hours per semester.*

*Prerequisite(s): EMT-2350 Paramedic Theory III, and current Ohio EMT-Basic certification. CTAN Approved: Career Technical Assurance Guide CTEMS004 (5 of 6 courses, all must be taken) and Industry-Recognized Transfer Assurance Guide ITEMS004 (5 of 6 courses, all must be taken).*

### **EMT-2371 Paramedic Capstone Course**

#### **5 Credits**

Paramedic Capstone Course. Final course in sequence necessary for NREMT Paramedic Certification and State of Ohio Paramedic certification. Integration of course knowledge and skills to demonstrate competence in American Heart Association Advanced Cardiac Life Support (ACLS) and Pediatric Advanced Life Support (PALS); American College of Surgeons or American College of Emergency Physicians approved trauma life support and National Association of EMT (NAEMT) medical life support standards. Additionally directed practice and field experience environment with demonstration of team leadership and integration with other medical professionals.

*Lecture: 3 hours. Laboratory: 3 hours*

*Other Required Hours: Directed Practice and field experience: 112 hours per semester.*

*Prerequisite(s): EMT-2360 Paramedic Theory IV, and departmental approval: State of Ohio Certified EMT-Basic. CTAN Approved: Career Technical Assurance Guide CTEMS004 (6 of 6 courses, all must be taken) and Industry-Recognized Transfer Assurance Guide ITEMS004 (6 of 6 courses, all must be taken).*

### **EMT-2400 Advanced Cardiac Life Support**

#### **1 Credit**

Advanced cardiac life support (ACLS) emphasizes the importance of basic life support cardiopulmonary resuscitation (CPR) to patient survival, the integration of effective basic life support with advanced cardiovascular life support interventions, and the importance of effective team interaction and communication during resuscitation. Students engage in simulated clinical scenarios that encourage active, hands-on participation through learning stations where students will practice essential skills individually, as part of a team, and as team leader.

*Lecture: 1 hours*

*Prerequisite(s): Departmental approval: valid current American Heart Healthcare Provider CPR certification required.*

### **EMT-2819 Special Topics in Critical Care Paramedic**

#### **5 Credits**

The CCEMTP program will assist the clinician in developing the necessary skills and knowledge to manage critical patients during a high risk transfer. Essentially, CCEMTP is "post graduate education" for the paramedic or nurse that attempts to standardize training and level of care in inter-facility transport.

*Lecture: 4 hours. Laboratory: 2 hours*

*Prerequisite(s): Departmental approval: Paramedic requirements: a current professional license and a recommended minimum of one year experience in that role; or Nurse Requirements: A current professional license and a recommended minimum of one year experience in that role.*

### **EMT-2820 Advanced Independent Study/Research in Emergency Medical Technology**

#### **1-3 Credits**

Directed individual advanced study. Study/research title and specific content arranged between instructor and student. (see Credit Schedule of classes for current offerings). May be repeated for a maximum of six credits of different topics.

*Lecture: 1-3 hours*

*Prerequisite(s): Departmental approval, and instructor approval, and ENG-0995 Applied College Literacies, or appropriate score on English Placement Test. Note: ENG-0990 Language Fundamentals II taken prior to Fall 2021 will also meet prerequisite requirements.*