

Central Ohio Technical College
Course Description Listing – Emergency Medical Services Program Courses
2009-2010 Academic Year

EMS-4052 First Aid

2 credit hours, 4 contact hours (1 hour lecture and 3 hours lab). Prerequisite: None. This course is not open to students with credit for EMS-4042, LET-5140, LET-5205, or LET-5267. Course is graded A-E.

This course is designed to help the student make appropriate decisions regarding first aid care and to act on those decisions. Students will recognize when an emergency has occurred and the plan of action needed for the emergency until professional medical help arrives.

EMS-4327 EMT-Basic

6 credit hours, 10 contact hours (4 hours lecture and 6 hours lab). Prerequisite: Score of 85 or above on the Compass Reading Skills Test or 44 or above on the ASSET Reading Skills Test; CPR Certification recommended. Course is graded A-E.

This basic course covers all aspects of emergency medical care in the field, including equipment, controlling the situation, anatomy and physiology, medical and trauma emergencies, and advanced airway control. This course at its successful completion allows the student to take the national registry exam to become certified at the EMT-Basic Level.

EMS-4328 EMS Intermediate I

7 credit hours, 10 contact hours (5 hours lecture and 5 hours lab). Prerequisite: Must be a State Certified EMT-Basic and pass compass reading and pre-algebra testing. This course must be taken concurrently with EMS-4329. Course is graded A-E.

The EMS Intermediate I course will present the medical practice act, roles and responsibilities of the EMT-Intermediate. The course builds upon the skills and knowledge of the EMT-Basic by adding advanced airway management, intravenous fluid therapy, and an introduction to cardiac monitoring, interpretation of electrocardiograms and manual defibrillation.

EMS-4329 EMS Intermediate I - Practicum

1 credit hour, 2 contact hours (0 hours lecture and 2 hours lab). Prerequisite: Concurrent enrollment in EMS-4328. Course is graded A-E.

This course is designed to provide practical experience in combined clinical experience and pre-hospital experience. The student will work in a clinical setting and pre-hospital services where he/she will learn agency procedures and demonstrate the required emergency medical techniques to meet all EMS standards for EMS Intermediate.

EMS-4330 Nationally Registered First-Responder

2 credit hours, 4 contact hours (1 hour lecture and 3 hours lab). Prerequisite: None. Course is graded A-E.

The student will study the emergency techniques utilized by first responders to an accident or other medical emergencies. The program is to allow the student to become a Nationally Registered First Responder and a State of Ohio Certified First Responder.

EMS-4331 Adult, Child, and Infant CPR

0.5 credit hours, 8 total contact hours (2 total hours lecture and 6 total hours lab). Prerequisite: None. Course is graded S/U.

This course will provide instruction and practice in Adult, Child and Infant CPR and use of an AED. Course is graded Satisfactory/Unsatisfactory.

**COTC Course Description Listing – Emergency Medical Services Program Courses
2009-2010 Academic Year****EMS-4334 EMS Paramedic I**

6 credit hours, 8 contact hours (4 hours lecture and 4 hours lab). Prerequisite: High school biology or equivalent or BIO-1705 with a C grade (2.00) or better or concurrent enrollment in BIO-1705 if not already completed and acceptance into the EMS-Paramedic Certificate program. Concurrent enrollment in BIO-1745 unless previously completed with a C grade (2.00) or better. Course is graded A-E.

The student will study the roles, responsibilities, and duties of an EMS-P including professional ethics and behavior. The preparatory stages related to the functioning of an EMS-Paramedic will be presented. The course will include instruction in the management of endocrine emergencies, allergies, anaphylaxis, gastrointestinal emergencies and respiratory emergencies.

EMS-4336 EMS Paramedic II

6 credit hours, 8 contact hours (4 hours lecture and 4 hours lab). Prerequisite: C+ (2.30) grade or better in EMS-4334, BIO-1745 with a grade of C (2.00) or better, and concurrent enrollment in EMS-4352. Course is graded A-E.

This course will provide instruction in the anatomy and physiology of the cardiovascular system, recognition of dysrhythmia assessment of the cardiac patients, and the pathophysiology of cardiovascular disease will be presented.

EMS-4338 EMS Paramedic III

6 credit hours, 8 contact hours (4 hours lecture and 4 hours lab). Prerequisite: C+ (2.30) grade or better in EMS-4336, Satisfactory grade in EMS-4352, concurrent enrollment in EMS-4354, and completion of BIO-1745 with a grade of C (2.00) or better. Course is graded A-E.

The course will provide instruction in major incident response, stress management, and the recognition, management and care of nervous system emergencies, emergencies, reproduction system emergencies, toxicology and substance abuse, infectious diseases, environmental emergencies, obstetrical and gynecological emergencies, neonatal emergencies, and behavioral and psychiatric emergencies, geriatric and pediatric emergencies.

EMS-4340 EMS Paramedic IV

6 credit hours, 8 contact hours (4 hours lecture and 4 hours lab). Prerequisite: C+ (2.30) grade or better in EMS-4338, Satisfactory grade in EMS-4354, and concurrent enrollment in EMS-4356. Course is graded A-E.

This course will include instruction in the assessment and management of shock, trauma emergencies, burns, and common cardiac emergencies in the pre-hospital setting.

EMS-4352 EMS Paramedic Practicum

2 credit hours, 10.5 contact hours (1 hour lecture, 0 hours lab, and 9.5 hours practicum). Prerequisite: C+ (2.30) grade or better in EMS-4336. Course is graded S/U.

This course is designed to provide practical experience in combined clinical experience and pre-hospital experience. The student will work in a clinical setting and pre-hospital services where they will learn agency procedures and demonstrate the required emergency medical techniques to meet all EMS standards for EMT-Paramedic. Course is graded Satisfactory/Unsatisfactory.

EMS-4354 EMS Paramedic Practicum

2 credit hours, 10.5 contact hours (1 hour lecture, 0 hours lab, and 9.5 hours practicum). Prerequisite: C+ (2.30) grade or better in EMS-4336 and concurrent enrollment in EMS-4338. Course is graded S/U.

This course is designed to provide practical experience in combined clinical experience and pre-hospital experience. The student will work in a clinical setting and pre-hospital services where they will learn agency procedures and demonstrate the required emergency medical techniques to meet all EMS standards for EMT-Paramedic. Course is graded Satisfactory/Unsatisfactory.

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EMS-4356 EMS Paramedic Practicum

2 credit hours, 10.5 contact hours (1 hour lecture, 0 hours lab, and 9.5 hours practicum). Prerequisite: C+ (2.30) grade or better in EMS-4338 and EMS-4354 and concurrent enrollment in EMS-4340. Course is graded S/U.

This course is designed to provide practical experience in combined clinical experience and pre-hospital experience. The student will work in a clinical setting and pre-hospital services where they will learn agency procedures and demonstrate the required emergency medical techniques to meet all EMS standards for EMT-Paramedic. Course is graded Satisfactory/Unsatisfactory.

EMS-4390 Epinephrine Administration and Cardiac Emergencies

1.5 credit hours, 2 contact hours (1 hour lecture and 1 hour lab). Prerequisite: State certified EMS-Basic which is current at the time of enrollment. Course is graded A-E.

The EMS Intermediate will present the medical practice act, rules and responsibilities of the EMS Intermediate. The course builds upon the skills and knowledge of the EMS Basic by adding advanced airway management, intravenous fluid therapy, and an introduction to cardiac monitoring, interpretation of electrocardiograms and manual defibrillation.