

## Emergency Medical Technician B-II / course # 8335

New Horizons Regional Education Center – Butler Farm

Instructor – J. Brittingham, EMS Education Coordinator

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Course Name:	Emergency Medical Technician – Basic level II
Grade Level:	High school seniors – 12
Hours of Instruction:	Two semesters – 1.5 credits per semester
Methods of Instruction:	Lecture / Discussion with audio-visual aids Demonstration and Practice (guided and independent) Small group interaction Consultation triad / Simulations / Interactive CD Readings and independent study
Medical Direction:	Medical Direction is a required component of Emergency Medical Services programs. This requirement is paramount in assuring the provision of the highest quality prehospital Medical care. For the school year 2020-2021, J. Michael M.D. Operational Medical Director has agreed to oversee the program.
Prerequisites:	Student must be a rising senior currently certified in the Commonwealth of Virginia as an EMT-B. They must also have a current basic life support card at the health care provider level, Hazardous materials awareness , mass casualty I & II and NIMS 100, 200, 700 & 800
Course Description:	<p>This course is designed for rising seniors who are currently certified as an EMT-B in Virginia, to increase their knowledge and skill proficiency. This course is designed to review basic skills and build a foundation for advanced patient care skills based on the EMT and AEMT curriculum. This program will not lead to an advanced certification level of AEMT, EMT-I or EMT-P. The student is not to exceed their scope of practice. Program is designed to provide knowledge and skill development in areas that have been identified as weaknesses for students wishing to move into an EMT I or P program. Specifically, after successful completion of the program, the student will be capable of performing the following functions at the entry level:</p> <ul style="list-style-type: none"><li>• Perform Drug dosage calculations converting household measure, apothecaries and metric, calculate I.V. dosage based on weight, and determine dilutions and solutions for administration. Identify pharmacology equipment and reading drug labels</li><li>• Identify and discuss protocols for use during potential terrorist incidents involving weapons of mass destruction, review the local emergency management plans for responding to domestic terrorism, Discuss and manage a scenario using the National Incident Command system, Special rescue and operations , Crime scene management and personal safety</li><li>• International Trauma Life Support (ITLS) – identify the correct sequence of evaluation and the techniques of resuscitation and packaging of the patient to perform these drills rapidly and efficiently thus increasing definitive patient care.</li></ul>

- Participate in continuing education for recertification of the EMT-B status for the State, (40 hours continuing education credit including skills assessment.)
- Participate in community education programs to straighten the “Chain of Survival” including assisting with instruction in Basic Life Support, first aid and infant car seat clinics.
- Demonstrate proficiency in EMT-B skills through a mentorship with the local EMS agency, acting as a mentor and assisting with skills evaluation

EMT’s provide service in an environment requiring special skills and knowledge in areas of communications, transportation and record keeping. They also serve as liaisons with other public safety services. (fire, law enforcement, emergency management, FEMA) This course will allow the student to strengthen the skills acquired in the basic course and build on their certifications and mentored experience. Units of instruction include:

- I. Preparatory – 40 hrs. Cont. edu. category 1, reviewing EMT-B basic skills and enhancing the knowledge base of the EMS system
- II. BCLS – Instructor (AHA) / Airway Management
- III. Instructor Development – theories in education, writing lesson plans, Presentation skills, evaluation and skills mentoring.
- IV. Operations, response to specialized Incidents, Hazmat, Weapons of mass destruction, crime scene and disasters (DMAT),
- V. Pharmacology with a concentration on basic math skills
- VI. Professional Development – mentorship role, career planning, evaluating the role of EMS in relationship to other health Care Professionals. Impact of the affordable Health Care Act and changing roles for health care and health care professionals.
- VII. Clinical mentorship in a varied EMS settings
- VIII. EVOC- Emergency Vehicle Operations (VDFP)

competency based task list may be found at the VDOE VERSO site for course # 8335

<http://www.cteresource.org/verso/courses/8335/emergency-medical-technician-iii-tasklist>

## VCCS Courses

Emergency Medical Services (EMS) Courses for VCCS Institutions- We will cover the following information, You are not dual enrolled.

EMS 115 Emergency Medical Technician- Basic Refresher (2 CR)  
Provides 36 clock hours of instruction to meet Virginia Office of EMS requirements for recertification at the EMT-Basic level.

EMS 110 Emergency Vehicle Operator’s Course (EVOC) (1 CR)  
Prepares the student for certification in the operation of various emergency vehicles. Teaches proper operating procedures in both emergency and non-emergency situations.

EMS 263 EMS Instructor Training (3 CR)  
Develops skills in instructional design, delivery and evaluation. Includes: principles of adult learning and student learning styles; development of instructional objectives; preparation of lesson plans, preparation and use of instructional aids, class participation techniques, practical skill instruction, providing student feedback and evaluating performance.

EMS 211 Operations (2 CR) Prepares the student in the theory and application of the following: medical incident command, rescue awareness

and operations, hazardous materials incidents, and crime scene awareness. (Conforms to the current Virginia Office of Emergency Medical Services curriculum for EMT-Paramedics.)

Learner outcomes include:

1. Ambulance operations: the student will understand standards and guidelines that help ensure the effective ground and air medical transport
2. Medical incident command: the student will be able to safely manage the scene of an emergency, demonstrate the ability to integrate the principles of general incident management and multiple casualty incident (MCI) management techniques in order to function effectively at major incidents.
3. Rescue awareness and operations: students will be able to integrate the principles of rescue awareness and operations to safely rescue a patient from water, hazardous atmospheres, trenches, highways and hazardous terrain.
4. Hazardous materials incident: student will:

Demonstrate the ability to evaluate hazardous materials emergencies

Be able to call for appropriate resources

Demonstrate the ability to identify and work in the cold zone

5. Crime Scene awareness: student will be able to develop an awareness of the human hazard of crime and violence and demonstrate the ability to perform safe operations at crime scenes and other emergencies

**Mentorship/field rotations:** This course requires a clinical mentorship for development of proficiency in patient skills. An assigned mentor will evaluate performance in the field. The course instructor evaluates documentation and assures basic skill competency. Clinical field rotation time requirement minimal is 60 hours. Appropriate attire and review of expectations can be located in the clinical rotation packet, furnished to the student prior to clinical.

**Evaluation / Assessment** The purpose of the evaluation process is to strengthen training efforts There are three components of the overall grade: Related Instruction (test, quizzes and projects), Competencies (skills), and Employability skills (behaviors that impact on the work environment).Related Instructions minimum passing score is 76%.Students who do not meet the requirements will not be allowed to complete the additional certifications.. Attendance is very important and is REQUIRED in some aspects for meeting the requirements for State testing or certifications.

**Clinical Agencies:** Gloucester Fire & Rescue  
Poquoson Fire and Emergency Medical Services  
James City Fire and Emergency Medical Services  
Virginia Office of Emergency Medical Services – field reps.

**Textbook:** *Foundations of Education an EMS approach* (2013) , 2<sup>nd</sup> edition, National Association of EMS Educators, Delmar

Nancy L. Caroline,MD (2013) *Emergency Care in the Streets*, 7<sup>th</sup> edition, American Academy of Orthopedic Surgeons, AAOS, Jones & Bartlett Learning

*BTLS: Basic Trauma Life Support for the EMT-B* (2011).

7th edition, John Emory Campbell, Brady / Prentice Hall

*Drug Dosage Calculations* (2006), 3<sup>rd</sup> edition, Alan A. Mikolaj, Brady / Prentice Hall

*ACLS for EMT-Basics* (2003) AAOS, Jones and Bartlett Publishers

References:

*Emergency Care and Transportation of the Sick and Injured*, 10<sup>th</sup> edition (2011) American Academy of Orthopedic Surgeons, AAOS, Jones & Bartlett Learning

*Principles of Advanced Trauma Care* (2002), Michael W. Hubble & Johnsie Hubble, Delmar

*Tactical Emergency Care – Military Operations Out of Hospital Medicine* (1999), DeLorenzo & Porter, Brady / Prentice Hall

*Paramedic Care: Principles and Practice* (2010) Bleedsoe, Porter, Cherry, Brady/Prentice Hall

*Preparing for Terrorism: An Emergency Services Guide* (1998) George Buck, Delmar