

COURSE INFORMATION

COURSE PREFIX/NO: EMS 115
COURSE TITLE: INTERNATIONAL TRAUMA LIFE SUPPORT
LECTURE HOURS/WEEK: 1
LAB HOURS/WEEK: 0
CREDIT HOURS: 1

[Distance Learning Attendance/VA Statement](#)
[Textbook Information](#)

COURSE DESCRIPTION

This course is designed to educate the experienced pre-hospital healthcare provider in dealing with critically injured or trauma patients in an emergency setting. An understanding of trauma care equipment, basic trauma-related and assessment skills are necessary. Current NAEMT, PHTLS guidelines will be followed.

COURSE COMPETENCIES

Upon successful completion of EMS 115, the student will be able to:

Module 1: Introduction to Prehospital Advanced Trauma Life Support

Section 1: Injury Prevention

Identify the importance of accurate, attentive scene observations and documentation of data by EMS providers to the success of injury prevention initiatives.

Section 2: Kinematics of Trauma

Associate the principles of energy exchange involved in a given situation to the pathophysiology of the head, spine, thorax, and abdomen resulting from that exchange.

Section 3: Patient Assessment and Management

Demonstrate the discrete steps involved in the process of assessing and managing the trauma patient into an organized and rational process.

Section 4: Airway Management and Ventilation

Outline the principles of ventilation and gas exchange with the pathophysiology of trauma.

Identify trauma patients with inadequate ventilation, oxygenation, and perfusion.

Section 5: Thoracic Trauma

Associate the relationship between thoracic anatomy and the kinematics of trauma.

Identify assessment findings utilized to develop an index of suspicion for specific thoracic injuries.

Section 6: Shock and Fluid Resuscitation

Associate the principles of pathophysiology with physical examination findings to identify and provide treatment for the patient in shock.

Section 7: Abdominal Trauma

Outline the pathophysiologic effects of blunt or penetrating injury to the abdomen based on physical examination findings.

Demonstrate the treatment for the patient with abdominal trauma.

Section 8: Head Trauma

Identify, compare, and contrast the pathophysiology, management, and potential consequences of specific types of Traumatic Brain Injury (TBI) and secondary brain injury.

Module 2: Prehospital Advanced Trauma Life Support Applications

Section 9: Spinal Trauma

Identify principles of anatomy and pathophysiology with assessment data and principles of spinal trauma management.

Outline a treatment plan for the patient with obvious or potential spinal injury.

Section 10: Musculoskeletal Trauma

Integrate the five major pathophysiological problems associated with extremity injuries into a management plan in the prehospital environment.

Section 11: Thermal Trauma: Injuries Produced by Heat and Cold

Differentiate between critical and noncritical thermal injuries and formulate a prehospital care plan.

Section 12: Special Considerations in Trauma of the Child

Demonstrate prehospital management techniques for the various injuries found in the pediatric patient.

Section 13: Special Considerations in Trauma of the Elderly

Demonstrate prehospital management techniques for the various injuries found in the elderly patient.

Section 14: Triage, Transport, and Trauma Systems

Given a scenario involving multiple trauma patients, apply triage criteria to make resource, treatment, and transport decisions.

Section 15: Golden Principles of Prehospital Trauma Care

Given three different scenarios, properly apply the current golden principles of prehospital trauma care.

COURSE REQUIREMENTS:

1. Students are expected to adhere to the policies regarding student conduct as stated in the current York Technical College Catalog and Handbook.
2. Students are responsible for attending all scheduled classes in EMS 115. Regular attendance and class participation are essential to student success in EMS 115. Students who are absent from scheduled classes/clinical for any portion of the scheduled hours will be withdrawn.
3. Students are responsible for all material covered and for completing all assignments.
4. Students must satisfactorily complete all required skill competencies.
5. Students must complete the pretest and posttest with a minimum score of 80%. **Students must have a *MINIMUM SCORE OF 80% TO SUCCESSFULLY COMPLETE THIS COURSE!***

ATTENDANCE

This course is taught from the current ITLS or PHTLS curriculum. Students are responsible for attending all scheduled classes in EMS 115. Students must attend 100% of all scheduled activities. Students who are absent from scheduled classes/clinical for any portion of the scheduled hours will be withdrawn

ACADEMIC INTEGRITY

Any student found guilty of cheating, dishonesty, or plagiarism will be given a grade of “0” on an exam or written work and will be subject to further disciplinary action. Plagiarism refers to “The act of appropriating the literary composition of another, on parts or passage of his writings, on the ideas or language of the same, and passing them off as the product of one’s own mind.”

METHODS OF INSTRUCTION

Lecture, assigned readings, audiovisuals, handouts, written assignments, discussion, demonstration, and lab experience.

MINIMAL STANDARDS

Attendance/Participation: Given a course outline, the student will attend and actively participate in 100% of scheduled class sessions. All current SC DHEC EMS Division Policies and Procedures and current NAEMT, ITLS, or PHTLS guidelines will apply to the EMT-P Training Program.

Performance: Upon completion of assigned readings, classroom presentations/demonstrations/practice, out-of-class activities and other assigned course activities. The student will demonstrate all competencies as required by current ITLS or PHTLS guidelines.

EVALUATION STRATEGIES/GRADING

A. Lab/Clinical Component

Satisfactory completion of the following skill competencies:

Patient Assessment – Trauma Adult	Airway Interventions – Basic
Patient Assessment – Trauma Pediatric	LMA Insertion
Spinal Immobilization - Seated	Orotracheal Intubation
Spinal immobilization – Supine	Nasotracheal Intubation
Spinal Immobilization - Standing	Dual Lumen Airway Insertion
Helmet Removal	Thoracic Decompression
Rapid Extrication	Rapid Sequence Induction (RSI)

B. Theory Component

The final grade in EMS115 will be determined by averaging the scores on the following:

ITLS or PHTLS Pretest	50%
ITLS or PHTLS Posttest	50%
*Combination of above	100%

Must have a *MINIMUM SCORE OF 80% TO SUCCESSFULLY COMPLETE THE COURSE!

Grading Scale for EMS 115

A	91-100%
B	86-90%
C	80-85%
D	70-79%
F	Below 69%

ENTRY-LEVEL SKILLS

Students must be an Intermediate EMT prior to course and must be affiliated with an Emergency Medical Services (EMS) or Rescue Squad/Fire Department SC DHEC EMS Provider through course completion.

Students must maintain current SC DHEC EMS Division Intermediate EMT status through course completion.

Students must maintain current BCLS credential as per SC DHEC EMS Division through course completion.

Students must successfully complete ASSET or HOBET *prior to* entrance into course.

Students must meet all above criteria and must meet all requirements for function as an Emergency Medical Technician as outlined in the current Americans with Disabilities Act.

PREREQUISITES: Admission to York Technical College
Completion of Anatomy and Physiology as per SC DHEC EMS Policy
SC DHEC EMS Intermediate EMT

CO-REQUISITES: EMS 111, EMS, EMS 116, EMS 120, and EMS 220

Disabilities Statement: Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Offices (SR) at 803-327-8007 in the 300 area of Student Services. The SRO coordinates reasonable accommodations for students with documented disabilities.

Effective: Spring 2009