Course Number: EMTB-A0156
OCAS Code: None
Course Length: 38 Hours
Course meets minimum set by OSDH.

Career Cluster: Health Science
Career Pathway: Therapeutic Service
Career Major(s): Emergency Medical Technician

Pre-requisite(s): This course provides the student with fundamental understanding and management of the trauma patient.

Course Description: This course provides the student with fundamental understanding and management of the trauma patient.

Textbooks:
- Oklahoma Regional Trauma Advisory Board (RTAB) DVD (2011).

Course Objectives:
A. Trauma Overview
   Fundamental depth, foundational breadth Pathophysiology, assessment, and management of the trauma patient
   1. Trauma scoring
   2. Rapid transport and destination issues
   3. Transport mode

B. CDC/Oklahoma triage

C. Bleeding
   EMR Material Plus: Fundamental depth, foundational breadth Pathophysiology, assessment, and management of
   1. Bleeding

D. Chest Trauma
   EMR Material Plus: Fundamental depth, simple breadth Pathophysiology, assessment and management
   1. Blunt versus penetrating mechanisms
   2. Hemothorax
   3. Pneumothorax
      a. Open Simple
      b. Tension
   4. Cardiac tamponade
   5. Rib fractures
   6. Flail chest
   7. Commotio cordis
E. Abdominal and Genitourinary Trauma
EMR Material Plus: Fundamental depth, simple breadth Pathophysiology, assessment and management of
1. Solid and hollow organ injuries
2. Blunt versus penetrating mechanisms
3. Evisceration
4. Injuries to the external genitalia
5. Vaginal bleeding due to trauma
6. Sexual assault

F. Orthopedic Trauma
EMR Material Plus: Pathophysiology, assessment, and management of
Fundamental depth, foundational breadth
1. Upper and lower extremity orthopedic trauma
2. Open fractures
3. Closed fractures
4. Dislocations
5. Sprains/strains
6. Pelvic fractures
7. Amputations/replantation

G. Soft Tissue Trauma 5 hours
EMR Material Plus: Fundamental depth, foundational breadth Pathophysiology, assessment, and management
1. Wounds
   a. Avulsions
   b. Bite wounds
   c. Lacerations
   d. Puncture wounds
   e. Incisions
2. Burns
   a. Electrical
   b. Chemical
   c. Thermal
   d. Radiation Simple depth, simple breadth
3. Crush syndrome

H. Head, Facial, Neck and Spine Trauma
EMR Material Plus: Fundamental depth, foundational breadth Pathophysiology, assessment, and management of
1. Penetrating neck trauma
2. Laryngeotracheal injuries
3. Spine trauma Simple depth, simple breadth
4. Facial fractures
5. Skull fractures
6. Foreign bodies in the eyes
7. Dental trauma

I. Special Considerations in Trauma
EMR Material Plus: Fundamental depth, foundational breadth Pathophysiology, assessment, and management of trauma in the
1. Pregnant patient
2. Pediatric patient
3. Geriatric patient
4. Cognitively impaired patient
J. **Nervous System Trauma**
   *foundational breadth Pathophysiology, assessment, and management of*
   1. Traumatic brain injury
   2. Spinal cord injury

K. **Environmental Emergencies**
   *EMR Material Plus: Fundamental depth, foundational breadth Pathophysiology, assessment, and management of*
   1. Near drowning
   2. Temperature-related illness
   3. Bites and Envenomations
   4. Dysbarism
      a. High-altitude
      b. Diving injuries
   5. Electrical injury
   6. Radiation exposure

L. **Multi-System Trauma**
   *EMR Material Plus: Fundamental depth, foundational breadth Pathophysiology, assessment, and management of*
   1. Multi-system trauma
   2. Blast injuries

**Teaching Methods:** The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

**Grading Procedures:**

1. Students are graded on theory and lab practice and performance.
2. Students are only eligible to test for their license with an 80% or better GPA
3. Each course must be passed with seventy (70%) percent or better.
4. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.
5. Career Major grades established during coursework are a major criteria in successfully obtaining certification.

**Description of Classroom, Laboratories, and Equipment:**

Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

**Available Certifications/College Credit**

The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information.
College Credit Eligibility: The student must maintain a grade point average of 3.0 or better.