

## EMT140 : Emergency Medical Technician (EMT)

### General Information

Author:	<ul style="list-style-type: none"><li>Kohar Kesian</li></ul>
Course Code (CB01) :	EMT140
Course Title (CB02) :	Emergency Medical Technician (EMT)
Department:	EMT
Proposal Start:	Summer 2025
TOP Code (CB03) :	(1250.00) Emergency Medical Services
CIP Code:	(51.0904) Emergency Medical Technology/Technician (EMT Paramedic).
SAM Code (CB09) :	Clearly Occupational
Distance Education Approved:	No
Will this course be taught asynchronously?:	No
Course Control Number (CB00) :	CCC000598404
Curriculum Committee Approval Date:	10/23/2024
Board of Trustees Approval Date:	12/17/2024
Last Cyclical Review Date:	10/23/2024
Course Description and Course Note:	<p>EMT 140 is designed to prepare students for certification and employment as an Emergency Medical Technician (EMT) in the state of California. Students learn introductory theory and practice of emergency medical care through increasingly complex concepts and management of immediate life-threatening situations and emergencies. Critical thinking and decision-making skills are stressed throughout the course. Coursework also includes a Clinical/ride-along component. Upon successful completion of EMT 139 and EMT 140, a course completion certificate is awarded to students who successfully complete the didactic portion of the class with 80% or better and pass the certifying skills exam receive a course completion certificate. Successful completion of the EMT courses provides eligibility to sit for the National Registry EMT exam and apply for certification in the state of California. Note: Student must be eighteen years of age prior to the last day of class. In addition to the scheduled hours, twenty-four hours of ride along must be completed in order to be eligible to pass the class.</p>
Justification:	Mandatory Revision
Academic Career:	<ul style="list-style-type: none"><li>Credit</li></ul>
Mode of Delivery:	No value
Author:	No value
Course Family:	No value

### Academic Senate Discipline

Primary Discipline:	<ul style="list-style-type: none"><li>Emergency Medical Technologies</li></ul>
Alternate Discipline:	No value
Alternate Discipline:	No value

## Course Development

### Basic Skill Status (CB08)

Course is not a basic skills course.

Allow Students to Gain Credit by Exam/Challenge

### Course Special Class Status (CB13)

Course is not a special class.

### Pre-Collegiate Level (CB21)

Not applicable.

### Grading Basis

- Grade with Pass / No-Pass Option

### Course Support Course Status (CB26)

Course is not a support course

## General Education and C-ID

### General Education Status (CB25)

Not Applicable

### Transferability

Transferable to CSU only

### Transferability Status

Pending

## Units and Hours

### Summary

<b>Minimum Credit Units (CB07)</b>	8.5
<b>Maximum Credit Units (CB06)</b>	8.5
<b>Total Course In-Class (Contact) Hours</b>	225
<b>Total Course Out-of-Class Hours</b>	234
<b>Total Student Learning Hours</b>	459

### Credit / Non-Credit Options

#### Course Type (CB04)

Credit - Degree Applicable

#### Noncredit Course Category (CB22)

Credit Course.

#### Noncredit Special Characteristics

No Value

#### Course Classification Code (CB11)

Credit Course.

Variable Credit Course

#### Funding Agency Category (CB23)

Not Applicable.

Cooperative Work Experience Education

Status (CB10)

### Weekly Student Hours

	In Class
Lecture Hours	6.5

Out of Class
13

### Course Student Hours

Course Duration (Weeks)	18
Hours per unit divisor	54

Laboratory Hours	6	0
Studio Hours	0	0

**Course In-Class (Contact) Hours**

Lecture	117
Laboratory	108
Studio	0
<b>Total</b>	<b>225</b>

**Course Out-of-Class Hours**

Lecture	234
Laboratory	0
Studio	0
<b>Total</b>	<b>234</b>

**Time Commitment Notes for Students**

Student must be eighteen years of age prior to the last day of class. In addition to the scheduled hours, twenty-four hours of ride along must be completed in order to be eligible to pass the class.

**Units and Hours - Weekly Specialty Hours**

Activity Name	Type	In Class	Out of Class
No Value	No Value	No Value	No Value

**Prerequisites, Corequisites, Recommended Corequisites, and Recommended Preparation**

**Prerequisite**

EMT139 - Introduction To Emergency Medical Services

**Objectives**

- Discuss the structure and significance of the Emergency Medical Services (EMS) system.
- explain the ethical responsibilities of healthcare providers.
- describe the structure and general functions of various body systems.
- describe the signs and symptoms of common communicable diseases encountered in various emergency settings.
- demonstrate the appropriate techniques for using personal protective equipment to reduce the risk for acquiring a communicable disease.
- discuss the various emotional reactions an EMS provider may encounter during the care of sick or injured persons.
- describe the use of evidence based research in emergency medical care.
- demonstrate the various techniques of resuscitation for the neonate, infant, child, and adult.

**Entry Standards**

Entry Standards	Description
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No value

No value

## Course Limitations

Cross Listed or Equivalent Course

Description

No value

No value

## Specifications

Methods of Instruction

Methods of Instruction

Lecture

Methods of Instruction

Laboratory

Methods of Instruction

Discussion

Methods of Instruction

Multimedia

Methods of Instruction

Collaborative Learning

Methods of Instruction

Demonstrations

Methods of Instruction

Field Activities (Trips)

## Out of Class Assignments

- Successful completion of the National Registry Emergency Medical Technician Exam;
- Satisfactory completion of ambulance ride-a-longs.

Methods of Evaluation

Rationale

Exam/Quiz/Test

Quizzes

Exam/Quiz/Test	Exams
Exam/Quiz/Test	Practical skill assessments
Exam/Quiz/Test	MYBradyLab online homework and testing
Other	Final written and practical examinations.

### Textbook Rationale

No Value

### Textbooks

Author	Title	Publisher	Date	ISBN
Mistovich, Joseph, et al	Prehospital Emergency Care	Pearson/Prentice Hall	2023	978-0-13-8223861
Hazinski, Mary F.	BLS for Healthcare Providers (Student Manual)	American Heart Association	2020	978-1-6697686

### Other Instructional Materials (i.e. OER, handouts)

No Value

## Learning Outcomes and Objectives

### Course Objectives

Demonstrate techniques for acquisition and interpretation of a patient's vital signs and medical history.

Demonstrate various lifting and moving techniques which promote safety for the patient and other personnel.

Demonstrate management of a patient's airway, providing pulmonary resuscitation, maintenance of various advanced airway access devices, and oxygen delivery systems.

Demonstrate various patient assessment techniques and determining priorities in patient care.

Discuss the rationale for serving as an advocate for patient rights within the healthcare system.

Demonstrate age-appropriate physical examinations.

Identify the components of various communication systems.

Describe the components of a written and verbal report and associated legal aspects.

Discuss various aspects related to general pharmacology and the administration of approved medications.

Calculate and adjust the rate of flow to various transportable intravenous solutions and/or medications.

Describe prioritization and management strategies for various medical emergencies.

Describe the signs and symptoms associated with various obstetrical and gynecological emergencies.

Demonstrate the management of imminent childbirth, management of the neonate, and the mother.

Describe prioritization and management strategies for various traumatic injuries.

Describe the developmental and physical attributes related to the assessment and management of infants and children.

Manage specific patient populations, such as the elderly and those patients with special needs.

Demonstrate the management of a multi-casualty incident.

Describe the management of a chemical, biological, radiological, nuclear, or explosive terrorist incident.

Describe the hazardous materials classification system, and its role in the emergency management of a hazardous materials incident.

Demonstrate recognition and mitigation of a hazardous materials incident.

Identify the aspects of ambulance operations as it pertains to the prehospital environment.

Describe the aspects of gaining access to entrapped persons.

## SLOs

### Pass the National Registry Certification Exam.

Expected Outcome Performance: 75.0

<i>ILOs</i> Core ILOs	Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or methodologies to solve unique problems.
<i>EMT</i> Core PLOs	Maintain student pass rates on the NREMT exam in all five (5) five areas: airway and breathing, trauma; Cardiology; Medical and Operations.
<i>EMT</i> Emergency Medical Technician Skill Award	pass the National Registry Certification Exam;

### Administer appropriate emergency medical care based on assessment findings of the patient's condition.

Expected Outcome Performance: 75.0

<i>ILOs</i> Core ILOs	Analyze and solve problems using critical, logical, and creative thinking; ask questions, pursue a line of inquiry, and derive conclusions; cultivate creativity that leads to innovative ideas.  Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or methodologies to solve unique problems.
<i>EMT</i> Emergency Medical Technician Skill Award	administer appropriate emergency medical care based on assessment findings of the patient's condition  recognize the nature and seriousness of the patient's condition or extent of injuries, of adults, children, infants, and newborns to assess requirements for emergency medical care and transport;
<i>EMT</i> Introduction to Emergency Medical Services Skill Award	apply the anatomy and physiology of the following major body systems: respiratory, circulatory, musculoskeletal, nervous, and endocrine to situational pathophysiology of sick and injured;

### Perform safely and effectively the expectations of the EMT-Basic job description.

Expected Outcome Performance: 75.0

<i>ILOs</i> Core ILOs	Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or methodologies to solve unique problems.
<i>EMT</i> Introduction to Emergency Medical Services Skill Award	describe the Emergency Medical Services (EMS) Systems and differentiate the roles and responsibilities of the EMT from other pre-hospital care providers using the California specific statutes and regulations  identify, discuss and define the medical legal conditions that apply to the EMT-Basic working environment
<i>EMT</i> Emergency Medical Responder Skill Award	describe the Emergency Medical Services (EMS) Systems and differentiate the roles and responsibilities of the EMT from other pre-hospital care providers using the California specific statutes and regulations;
<i>EMT</i> Emergency Medical Technician Skill Award	perform safely and effectively the expectations of the EMT-Basic job description;

## Additional SLO Information

### Does this proposal include revisions that might improve student attainment of course learning outcomes?

No

### Is this proposal submitted in response to learning outcomes assessment data?

No

If yes was selected in either of the above questions for learning outcomes, explain and attach evidence of discussions about learning outcomes.

No Value

**SLO Evidence**

No Value

## Course Content

### Lecture Content

**First Night of Class Orientation (3 hours)**

- Expectations
- Standards

**Obtaining and Interpreting Vital Signs and Medical History (3 hours)**

**Life Span Development (2 hours)**

- Working with diverse populations (race, culture/ethnicity, age, cognitive differences)

**Basic Pharmacology (7 hours)**

- Pharmacology
- Medication Administration

**Airway Management (5 hours)**

- Respiration and Ventilation
- Advanced Airway Management

**Emergencies (24 hours)**

- Pathophysiology
- Shock and Resuscitation
- Respiratory Emergencies
- Cardiovascular Emergencies
- Abdominal, gynecologic, Genitourinary and Renal Emergencies.
- Seizures, Syncope, Diabetic Emergencies
- Behavioral Emergencies

**Altered Mental Status, Stroke, Headache (4 hours)**

**Anaphylactic Reactions, Toxicology (4 hours)**

**Environmental, submersion Incidents (4 hours)**

**Bleeding Control, Soft Tissue, and Burns(3 hours)**

**Trauma (19 hours)**

- Musculoskeletal Trauma
- Head and Spinal Trauma
- Eye, Face, and Soft Tissue Neck Trauma
- Chest Trauma
- Abdominal and Genitourinary Trauma
- Multisystem Trauma and Trauma in Special Population, e.g., disabled people

**National Trauma Triage Protocols (3 hours)**

**Obstetrics and Care of the Newborn (5 hours)**

**Delivery of Newborn Normal and Complex (5 hours)**

**Pediatrics, Geriatrics (4 hours)**

**Patients with Special Challenges (3 hours)**

**Multiple-Casualty Incidents and Incident Management, Hazmat (4 hours)**

**EMS Response to Terrorism Involving Weapons of Mass Destruction (5 hours)**

**Epinephrine, Narcan, ASA, and Glucose (4 hours)**

**Hemostatic dressing/Quick Clot (4 hours)**

**Provider Impression and Transport (2 hours)**

**Total=117 hours**

## Laboratory/Studio Content

### **Obtaining and Interpreting Vital Signs and Medical History (6 hours)**

#### **Basic Pharmacology (10 hours)**

- Pharmacology
- Medication Administration

#### **Airway Management (5 hours)**

- Respiration and Ventilation
- Advanced Airway Management

#### **Emergencies (25 hours)**

- Pathophysiology
- Shock and Resuscitation
- Respiratory Emergencies
- Cardiovascular Emergencies
- Abdominal, Gynecologic, Genitourinary and Renal Emergencies
- Seizures, Syncope, Diabetic Emergencies
- Behavioral Emergencies

#### **Altered Mental Status, Stroke, Headache (5 hours)**

#### **Anaphylactic Reactions, Toxicology (2 hours)**

#### **Environmental, Submersion Incidents (2 hours)**

#### **Bleeding Control, Soft Tissue, and Burns (2 hours)**

#### **Trauma (14 hours)**

- Musculoskeletal Trauma
- Head and Spinal Trauma
- Eye, Face, and Soft Tissue Neck Trauma
- Chest Trauma
- Abdominal and Genitourinary Trauma
- Multisystem Trauma and Trauma in Special Population, e.g., people with disabilities

#### **Obstetrics and Care of the Newborn (4 hours)**

#### **Delivery of Newborn Normal and Complex (4 hours)**

#### **Pediatrics, Geriatrics (4 hours)**

#### **Patients with Special Challenges (3 hours)**

#### **Multiple-Casualty Incidents and Incident Management, Hazmat (4 hours)**

#### **EMS Response to Terrorism Involving Weapons of Mass Destruction (3 hours)**

#### **Epinephrine, Narcan, ASA, and Glucose (5 hours)**

#### **Hemostatic Dressing/Quick Clot (5 hours)**

#### **Provider Impression and Transport (5 hours)**

**Total=108 hours**

## Additional Information

### Repeatability

Not Repeatable

### Justification (if repeatable was chosen above)

No Value

### Is it possible this course will have a material fee?

No Value

**What term(s) will this course be offered?**

No Value

**Will any additional resources be needed for this course? (Click all that apply)**

No Value

**If additional resources are needed, add a brief description and cost in the box provided.**

No Value

## **Resources**

**Did you contact your departmental library liaison?**

No

**If yes, who is your departmental library liaison?**

Susie Chin (Biology, English, Health Sciences)

**Did you contact the DEIA liaison?**

Yes

**Were there any DEIA changes made to this outline?**

Yes

**If yes, in what areas were these changes made:**

- Course Content

**Will any additional resources be needed for this course? (Click all that apply)**

- No

**If additional resources are needed, add a brief description and cost in the box provided.**

No Value