

EMT 084: EMERGENCY MEDICAL TECHNICIAN I

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Originator

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Justification / Rationale

Changes being made are to the course content, lab content and instructional objectives in order to meet the minimum requirements as established by Riverside County EMS Agency, the California Health and Safety Code; and California Code of Regulations, Title 22 requirements. Changes will combine EMT -084 and EMT 094 lecture and lab.

Effective Term

Fall 2020

Credit Status

Credit - Degree Applicable

Subject

EMT - Emergency Medical Technology

Course Number

084

Full Course Title

Emergency Medical Technician I

Short Title

EMERGENCY MED TECH I

Discipline**Disciplines List**

Emergency Medical Technologies

Modality

Face-to-Face

Hybrid

Catalog Description

This course prepares students for National Registry of Emergency Medical Technicians (NREMT) EMT-Basic Written Examination. Students study and practice the fundamental principles and skills required to provide care to patients experiencing traumatic and medical conditions in an emergent setting. This course is approved by Riverside Emergency Medical Services Agency, California Health and Safety Code and California Code of Regulations, Title 22 requirements. This course provides training in basic emergency care skills, theory instruction, use of definitive airway adjuncts and assisting patients with certain medications. All students must be eighteen years of age (18) on the first day of class, have a current TB test, have a current AHA Healthcare Provider Level CPR certification and meet the functional job requirements of the Emergency Medical Technician (Title 22, Division 9, Chapter 2, Section 100066b2 California Code of Regulations.) Check the program website for additional information.

Schedule Description

This course prepares students for National Registry of Emergency Medical Technicians (NREMT) EMT-Basic Written Examination. This course meets Title 22 Regulations, and Curriculum standards set forth by the local EMS Authority, State EMS Authority, and NREMT. Check the program website for additional information. Prerequisite: EMR 080, or EMR 080A and EMR 080B with a passing grade of B

Advisory: ENG 061, EMR 081, HS 062

Limitation on enrollment: Students must be eighteen (18) years of age on the first day of class.

Students must have an American Heart Association BLS certification current through the end of the course.

Students will need proof of a negative TB test or chest X-ray and will need to provide proof of vaccinations and/or titer. Current American Heart Association BLS certification valid till the last day of the semester.

Lecture Units

3

Lecture Semester Hours

54

Lab Units

5

Lab Semester Hours

270

In-class Hours

324

Out-of-class Hours

108

Total Course Units

8

Total Semester Hours

432

Prerequisite Course(s)

EMR 080, or EMR 080A and EMR 080B with a passing grade of B
Advisory: ENG 061, EMR 081, HS 062

Limitation on Enrollment

Students must be eighteen (18) years of age on the first day of class.
Students must have an American Heart Association BLS certification current through the end of the course.
Students will need proof of a negative TB test or chest X-ray and will need to provide proof of vaccinations and/or titer. Current American Heart Association BLS certification valid till the last day of the semester.

Required Text and Other Instructional Materials**Resource Type**

Book

Author

Pollak, A., Edgerty, D., McKenna, K., Vitberg, D.

Title

Emergency Care and Transportation of the Sick and Injured

Edition

11

City

Burlington, MA.

Publisher

Jones And Bartlett Learning

Year

2015

College Level

Yes

ISBN #

9781284110524

Resource Type

Instructional Materials

Title

Navigate 2 (Premier)

Edition

Premier

Publisher

Jones and Bartlett Learning

Resource Type

Instructional Materials

Title

FISDAP

Edition

EMT

Publisher

FISDAP

Description

This system will be utilized to track student lab evaluations, filed time, and deliver readiness exams

Resource Type

Web/Other

Description

Other: gloves, goggles, stethoscope, blood pressure cuff, uniform

Class Size Maximum

30

Entrance Skills

Demonstrate fundamental knowledge and understanding of emergency medical services systems.

Requisite Course Objectives

EMR 080-Describe the roles of EMS in the health care system.

EMR 080-Demonstrate the professional attributes expected of EMRs.

EMR 080-Perform the roles and responsibilities of an EMR with regard to personal safety and wellness, as well as the safety of others.

EMR 080-Perform the duties of an EMR with regard for medical-legal and ethical issues, including functioning under medical direction and within the scope of practice.

EMR 080-Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients.

EMR 080-Identify the need for and perform immediately life-saving interventions to manage a patient's airway, breathing, and circulation.

EMR 080-Assess and manage patients of all ages with a variety of complaints, medical conditions and traumatic injuries.

EMR 080-Apply principles of emergency medical services operations, including considerations in ambulance and air medical transportation, multiple casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.

EMR 080A-Describe the roles of EMS providers in the health care system.

EMR 080A-Demonstrate the professional attributes expected of EMRs.

EMR 080A-Perform the roles and responsibilities of an EMR with regard to personal safety and wellness, as well as the safety of others.

EMR 080A-Perform the duties of an EMR with regard for medical-legal and ethical issues, including functioning under medical direction and within the scope of practice.

EMR 080A-Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients.

EMR 080A-Identify the need for and perform immediately life-saving interventions to manage a patient's airway, breathing, and circulation.

- EMR 080A-Assess and manage patients of all ages with a variety of complaints, medical conditions and traumatic injuries.
- EMR 080A-Apply principles of emergency medical services operations, including considerations in ambulance and air medical transportation, multiple casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.
- EMR 080B-Describe the roles of EMS in the health care system.
- EMR 080B-Demonstrate the professional attributes expected of EMRs.
- EMR 080B-Perform the roles and responsibilities of an EMR with regard to personal safety and wellness, as well as the safety of others.
- EMR 080B-Perform the duties of an EMR with regard for medical-legal and ethical issues, including functioning under medical direction and within the scope of practice.
- EMR 080B-Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients.
- EMR 080B-Identify the need for and perform immediately life-saving interventions to manage a patient's airway, breathing, and circulation.
- EMR 080B-Assess and manage patients of all ages with a variety of complaints, medical conditions and traumatic injuries.
- EMR 080B-Apply principles of emergency medical services operations, including considerations in ambulance and air medical transportation, multiple casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.
- EMR 081-Demonstrate knowledge of driver's responsibilities, vehicle laws, and defensive driving techniques.
- EMR 081-Demonstrate an understanding and practical knowledge of techniques on basic inspections and maintenance of ambulances.
- EMR 081-Demonstrate knowledge of techniques for operating an ambulance vehicle prior to the run, during the run, while at the emergency scene, to the hospital, and when returning to quarters.

Entrance Skills

Advisory Skills: Demonstrate and understand use of basic English.

Requisite Course Objectives

- ENG 061-Use theses to organize paragraphs into coherent analyses.
- ENG 061-Demonstrate the ability to think critically and express ideas using various patterns of development.
- ENG 061-Demonstrate the ability to use research skills including library resources such as books, periodicals, electronic databases and online resources such as the internet.
- ENG 061-Demonstrate the ability to read and respond in writing beyond the literal interpretation of the text.

Course Content

- I. Role and responsibilities of the EMT.
- A. Responsibility to patient including confidentiality.
 - B. Quality assurance and improvement program.
 - C. Medical, legal, and ethical issues and responsibilities.
 - D. Well-being of the EMT.
 - E. Emotional aspects of emergency care.
 - F. Situational safety.
- II. Emergency medical services system components.
- A. Overview of EMS system.
 - B. EMT, EMT I, and Paramedic in California.
 - C. Lay recognition and system access.
 - D. Scene management.
 - E. Transportation of emergency personnel, equipment and the patient.
 - F. Overview of hospital categorization and designation.
 - G. Communications overview.
 - H. Record keeping and documentation.
 - I. Multi-victim incidents and disasters.
 - J. Preservation of evidence.
- III. Laws governing the EMT.
- A. Medical practice acts affecting the EMT, to include Title 22, Division 9 of the California code of Regulations, and Division 2.5 of the Health and Safety Code.
 - B. Scope of practice of EMT.
 - C. Good Samaritan laws
 - D. Duty to act.
 - E. Consent- implied, informed and consent of a minor.
 - F. Negligence.

- G. Abandonment.
- H. Child, spousal and elder abuse.
- I. The health professional at the scene.
- J. Legal detention-Welfare and Institutions Code, Sections 5150 and 5170.
- K. Determining death.
- L. Do Not Resuscitate (DNR); state EMS Authority guidelines.

IV. Human systems

Medical terminology; overview of medical terminology including anatomical terms.

1. Human systems; overview of anatomy and physiology.

- a) The cell, basic structure and function.
- b) Tissues.
- c) Homeostasis.
- d) Body systems.
 - i) Skeletal system.
 - ii) Muscular system.
 - iii) Cardiovascular (circulatory) system.
 - iv) Digestive system.
 - v) Respiratory system.
 - vi) Genitourinary system.
 - vii) Nervous system.
 - viii) Immune system.
- e) Body cavities.
- f) Surface anatomy.

V. Patient assessment (primary, secondary, head -to-toe, reassessment, trending, evaluating, recording).

A. Approach to patient assessment including scene assessment and mechanism of injury.

- a) Primary Assessment
- b) Diagnostic signs.
- c) Vital signs.
- d) Skin signs.
- e) Pupillary response.
- f) Mental Status.
- g) Neurological examination.
- h) Chest auscultation.

B. Physical examination.

C. Secondary survey.

D. Communication

- i) verbal.
- ii) written.

1. Management skills.

- a) Diagnostic signs.
- b) Vital signs.
- c) Skin signs.
- d) Eye signs.
- e) Mental Status
- f) Neurological examination.
- g) Chest auscultation to determine breath sounds.

1. Physical examination.

- a) Primary survey.
- b) Secondary survey.

Shock

1. Fluids

- a) Body fluids and distribution.
- b) Blood and its composition.
- c) Intravenous solutions that may be used by an EMT-II or EMT-P.

1. General nature, cause and stages of shock, patient assessment, complications and the pre-hospital management of shock.

2. Management skills.

- a) Control of hemorrhage.
- b) Shock position.

- c) Assisting with anti-shock garment.
- d) Assisting with intravenous set-up.

Respiratory system.

1. Anatomy and physiology.
2. Composition of gases in the environment.
3. Exchange of gases in the lungs.
4. Regulation of respiration.
5. Evaluation of ventilation
6. Pathophysiology, etiologies, patient assessment (primary, secondary, reassessment, trending, evaluating, recording), complications and the pre-hospital management of respiratory disorders.
 - a) Airway obstruction.
 - b) Pulmonary arrest.
 - c) Respiratory distress/non-traumatic dyspnea
 - i) Asthma and chronic obstructive pulmonary disease.
 - ii) Acute pulmonary edema.
 - iii) Inhalation of toxic substances.
 - iv) Pulmonary embolism.
 - v) Hyperventilation syndrome.
 - vi) Other causes of dyspnea.
 - d) Rib fractures.
 - e) Flail chest.
 - f) Pneumothorax and hemopneumothorax.
 - g) Tension pneumothorax.

1. Management skills.

- a) Airway management.
 - i) Evaluation of breathing.
 - ii) Opening the airway.
 - iii) Obstructed airway management.
- b) Airway management with airway adjuncts.
 - i) Suction.
 - ii) Basic oxygen delivery (nasal cannulas and non-rebreather mask).
 - iii) Pocket mask.
 - iv) Bag-valve-mask resuscitator.
 - v) Demand-valve positive pressure resuscitator.
 - vi) Assisting with ventilation by esophageal airway and endotracheal tube.
 - vii) Nasopharyngeal.
 - viii) Oropharyngeal.

Cardiovascular system.

1. Anatomy and physiology.
2. Pathophysiology, etiologies, patient assessment (primary, secondary, reassessment, trending, evaluating, recording), complications, and the pre-hospital management of cardiovascular problems.
 - a. Coronary artery disease-angina and acute myocardial infarction
 - b. Congestive heart failure.
 - c. Cardiogenic shock
 - d. Cardiac arrest
 - e. Hypertensive emergencies
 - f. Early defibrillation.
 - i. Automatic External Defibrillator (AED) management skills.
 - ii. Assessment of unconscious patient to include evaluation of airway, breathing, circulation, to determine cardiac arrest.
 - iii. Post-conversion status continuation of care.
 - g) Management skills according to American Heart Association.
 - h) One rescuer Cardiopulmonary Resuscitation (CPR).
 - i) Two rescuer CPR.
 - j) Infant and Child CPR.

Nervous System

1. Anatomy and physiology
 - a. Brain and spinal cord
 - b. Peripheral nerves
 - i. Pathophysiology, etiologies or injury, patient assessment (primary, secondary, reassessment, trending, evaluating, recording), complications, and pre-hospital management of nervous system problems.
2. Head and spinal cord trauma.
3. Altered mental status.
 - a. Coma
 - b. Seizures.
 - c. Stroke
 - d. Syncope
 - e. Other causes
4. Management skills
 - a. Spinal immobilization, including rigid collars, short board, long board and other spinal immobilization devices.
 - b. Log roll
 - c. Management of head injuries
 - d. Management of altered states of consciousness including positioning
 - e. Helmet removal
5. Soft tissue injuries
 - a. Anatomy and physiology
 - b. Mechanism of injury, patient assessment (primary, secondary, reassessment, trending, evaluating, recording), complications, and the pre-hospital management of soft tissue injuries.
6. Open wounds-abrasions, lacerations, avulsions, amputations and punctures
7. Closed wounds-contusions and hematomas
8. Burns
 - a. Thermal to include tar burns
 - b. Chemical
 - c. Electrical to include lightning
 - d. Radiation
9. Special considerations in soft tissue injuries to the following specific areas including impaled objects.
 - a. Eye
 - b. Face, ears, nose and throat
 - c. Neck
 - d. Abdomen
 - e. Genitourinary
 - f. Management skills
 - g. Bandaging
 - h. Splinting and immobilization
 - i. Control of bleeding
10. Musculoskeletal system
 - a. Anatomy and physiology
 - b. Nature of the injury, patient assessment (initial, ongoing, reassessment, trending, evaluating, recording), complications, and the pre-hospital management of musculoskeletal injuries.
 - i. a) Fractures, including severely angulated extremity and loss of distal pulse.
 1. Closed
 2. Open
 - c. Dislocations
 - d. Sprains
 - e. Strains
11. Management skills

- a. General principles of splinting and immobilization including severely angulated extremity and loss of distal pulse.
 - b. Closed
 - c. Open
 - d. Types of splints
 - i. Rigid
 - ii. Soft
 - e. Traction
12. Management of specific fractures and dislocations
- a. Medical emergencies
 - b. Pathophysiology, etiologies, patient assessment (primary, secondary, reassessment, trending, evaluating, recording), complications and the pre-hospital management of medical emergencies.
 - a) Diabetic emergencies including the use of oral glucose.
 - b) Allergic reactions.
 - c) Alcohol and drug abuse.
 - d) Poisoning and overdose.
 - e) Non-traumatic acute abdomen including gastrointestinal bleeding.
 - f) Communicable diseases including universal precautions.
 - g) Genitourinary problems.
- Pathophysiology, etiologies, patient assessment (primary, secondary, reassessment, trending, evaluating, recording), complications and the pre-hospital management of environmental emergencies.
- a) Heat exposure.
 - b) Cold exposure.
 - c) Poisonous and nonpoisonous bites and stings.
 - d) Near drowning.
 - e) Atmospheric pressure related problems.
 - f) Decompression sickness and air embolism.
 - g) Altitude sickness
1. Management skills
- a. Snakebite
 - b. Obstetric and gynecologic emergencies
 - i. Anatomy and physiology
 - ii. The stages of labor and normal delivery, including assessing for imminent delivery in the field.
 - iii. Pathophysiology, etiologies (primary, secondary, reassessment, trending, evaluating, recording), complications and the pre-hospital management of obstetric and gynecologic emergencies.
 - iv. Vaginal bleeding and hypotension
 - v. Ruptured ectopic pregnancy
 - vi. Abruptio placenta and placenta previa
 - vii. Toxemia of pregnancy
 - viii. Abnormal fetal presentation
 - ix. Limb
 - x. Breech
 - xi. Prolapsed cord
 - xii. Failure to progress
 - xiii. Postpartum hemorrhage
 - xiv. Premature birth
 - xv. Multiple births
 - xvi. Sexual assault to include provision of emotional support
 - xvii. Supine hypotensive syndrome
 - xviii. Pregnancy induced hypertension
2. Pathophysiology, etiologies, specific patient assessment (primary, secondary, reassessment, trending, evaluating, recording), complications, and pre-hospital management of the neonate
 - a) Assessment of the newborn.
 - b) Temperature regulation.

c) Resuscitation

1. Management skills

- a) Assisting with normal deliveries.
- b) Neonatal resuscitation.

1. Pediatrics

- a) Special considerations.
- b) Approach to the pediatric patient.
- c) Approach to parents.

Pathophysiology, etiologies, patient assessment (primary, secondary, reassessment, trending, evaluating, recording), complications and the pre-hospital management of emergencies especially related to the pediatric age group

1. Respiratory distress

- a. Epiglottitis
- b. Foreign body aspiration
- c. Croup
- d. Asthma/bronchitis
- e. Near drowning
- f. Sudden infant death syndrome, as mandated by Section 1797.170 of the Health and Safety Code.

2. Pediatric Cardiopulmonary Arrest

3. Medical emergencies.

- a. Seizures
- b. Meningitis
- c. Common communicable diseases

4. Child abuse and neglect

5. Trauma

6. Management skills

7. Cardiopulmonary resuscitation in neonates, infants, and children

8. Airway and ventilator adjuncts utilized for neonates, infants, and children

9. Cooling measures

Behavioral emergencies

1. Responses to illness, injury, death and dying
2. Behavioral emergencies.
 - a) Management of patients, family, bystanders, rescuers.
 - b) Patients who are a danger to themselves or others.
 - c) Post Traumatic Stress Disorder (PTSD)
 - d) Other behavioral emergencies

1. Management skills

- a. Restraining techniques and precautions
- b. Management of difficult patient situations

2. Extrication and rescue

- a. Phases of the rescue
- b. Lifting and moving patients
- c. Using spinal board and collar
- d. Extrication and rescue techniques
 - i. Single vehicle entry using pry bar, spring loaded center punch
 - ii. Other tools and techniques

3. 1. Disasters and multi-casualty management.

- a) Triage.
- b) Incident Command System (ICS) and communications.
- c) Treatment

4. Transportation

5. Mass hysteria

6. Morgue/coroner

7. Evacuation
8. Hazardous material incidents
 - a. Recognizing and reporting
 - b. Precautions
 - c. Securing area
 - d. Contamination and decontamination
9. Management skills
 - a. Moving and lifting patients
 - b. Extrication techniques
 - c. Proficiency with tools
10. Communications
 - a. Basics of an EMS communications system
 - b. Communications regulations and procedures
 - c. Communication policies and procedures
 - d. Radio skills
 - e. Interpersonal
11. Ambulance transport
 - a. Roles and responsibilities
 - b. Techniques of emergency ambulance driving and maintaining the ambulance equipment and supplies
 - c. Radio communications
 - d. Driver licensing
 - e. Maintenance of medical equipment and supplies
 - f. Legal aspects
 - g. Records and reports
 - h. Considerations for transport of patients with intravenous medications, foley catheters, nasogastric (NG) tubes, oral gastric tubes (OG), gastrostomy tubes, heparin locks, preexisting vascular access devices, and tracheostomy tubes.
12. Intravenous monitoring.
 - a. Legal aspects
 - b. Local protocol
 - c. Types of equipment and solutions
 - d. Drip rate monitoring and maintenance
 - e. Turn off flow
 - f. Intervention techniques
 - g. Complications
 - h. Intervention
 - i. Management skills
13. General Pharmacology
 - Pharmacodynamics
 - Pharmacokinetics
 - Use of Aspirin for Chest Pain
 - Use of Nitro for Cardiac Emergencies
 - Oral Glucose
 - Oxygen
2. **Mandatory Training Per Title 22 Regulations and CALEMSA**
 - Use of Epinephrine for anaphylaxis
 - Administer epinephrine by auto injector for anaphylaxis shock or severe asthma
 - Administer epinephrine by Intramuscular administration
 - Use of Narcan for Narcotic Overdose
 - Administer Narcan by intramuscular injection
 - Administer Narcan by intranasal (MAD) device

- Understand the pharmacodynamics and pharmacokinetics of Narcan and Epinephrine
- Demonstrate competency to draw up both Narcan and Epinephrine for patient administration
- Identify the symptomology associated with narcotic overdose
- Identify the symptomology associated with anyphylaxis

4. Additional Required Course Content

- Use of Hemostatic dressings
- Methods of bleeding control including direct pressure, tourniquets, and the use and identification of approved hemostatic agents
- Review treatment of open/penetrating chest wall injuries
- Understand the history of Tactical Combat Care (TCC)
- Demonstrate a functional knowledge of TCC
- Overview of Active Shooter and Terrorism situations
- Review local active shooter policies, identify the role of the EMT, and examine the role of collaborative agencies in these types of incidents
- Understand what a hot zone, warm zone, and cold zone are.
- Demonstrate knowledge of the Incident Command system
- Understand tactical and rescue operations in TCC and evacuations
- Demonstrate the use of triage procedures (START or SALT)
- Demonstrate the ability to perform a threat assessment
- Perform a finger stick to monitor patient blood glucose levels
- Apply four lead monitoring to assess cardiac function in a patient
- Administer over the counter medications approved by the local EMS medical director
- Demonstrate and understanding of the electronic patient care reporting system
- Demonstrate the ability to document a patient care report in the electronic documentation system

Lab Content

1. At least 44 hours of clinical and field rotations at selected EMS agencies and or Hospitals.
2. Demonstrate proper use and removal/discarding of personal protective equipment
3. Demonstrate the proper technique to open an airway and techniques of artificial ventilation
4. Demonstrate the proper use of airway adjuncts and suction
5. Demonstrate the use of aseptic techniques
6. Demonstrate the administration on medications intramuscular and intranasal
7. Demonstrate the proper technique of obtaining a blood glucose level
8. Disposal of contaminated items and sharps
9. Demonstrate the proper technique for childbirth
10. Demonstrate the proper technique for used for bandaging, wound dressings, burn dressings, splinting, penetrating /open chest wall trauma, bleeding control, tourniquets and hemostatic dressings
11. Demonstrate the proper technique for the use of long spine board, portable ambulance stretcher and KED Device, and the safe transfer to of a patient using each device.
12. Demonstrate one and two rescuer CPR with AED.
13. Demonstrate the proper technique for the use of the Hare Traction and Sager Splint for long bone fractures.
14. Complete Fisdap Unit Exams

Course Objectives

	Objectives
Objective 1	Perform an assessment of an emergency situation.
Objective 2	Perform pre-hospital support procedures at the scene of an injury or illness.
Objective 3	Demonstrate pre-hospital support procedures during transport of the sick or injured.
Objective 4	Describe the importance of a quality assurance program.
Objective 5	Meet the requirements necessary to be eligible for the National Registry Written Examination.
Objective 6	Describe basic anatomy and physiology of the human body.
Objective 7	Assess a medical and or trauma patient for life threats and treat patient per EMT scope of practice

Objective 8 Explain the pharmacology of medications within the national scope of an EMT, indications and contraindications for use, side effects and dosages.

Objective 9 Have the ability to assess mass casualty incidents and triage patients according to S.T.A.R.T. Triage.

Student Learning Outcomes

Upon satisfactory completion of this course, students will be able to:

Outcome 1	Accurately assess a patient's condition and provide the correct medical care.
Outcome 2	Describe the laws and regulations pertaining to the role of an EMT.
Outcome 3	Demonstrating aseptic technique during medication preparation and administration.
Outcome 4	Accurately obtain and document diagnostic signs.
Outcome 5	Describe, demonstrate and differentiate the assessment of the medical and or trauma patient to include responsive and unresponsive conditions, and provide the appropriate interventions.
Outcome 6	Accurately perform a patient assessment that includes the general impression of the patient, the identification of priority patients, and a focus history and physical exam.
Outcome 7	Demonstrate the ability to perform required skills set forth by the National Registry of Emergency Medical Technicians with 100% accuracy.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Demonstration, Repetition/Practice	In class activity where students act as team leaders and team members, demonstrating communication and assessment skills and providing medical intervention, followed by instructor lead analysis.
Technology-based instruction	Instructor guided online discussion forums on emergency medical situations and situational safety.
Lecture	The reading of emergency medical text in class by instructor and students, followed by instructor guided interpretation.
Laboratory	FEMA self study activities completed online and followed by instructor lead discussion online.
Clinical	Instructor guided clinical and field assessments followed by instructor lead discussions.
Discussion	Discussion groups lead by the instructor where students analyse and interpret case studies for situations awareness and patient condition.
Activity	In class instructor modeled practical skills followed by instructor lead analysis

Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Written homework	Evaluation through completion of forty (40) essay questions, forty (40) chapter vocabulary reviews and weekly discussion questions.	Out of Class Only
Tests/Quizzes/Examinations	Evaluation on content, terminology, knowledge of subject matter and	In Class Only
Group activity participation/observation	Skills assessments documented as peer evaluations by students and instructors through FISDAP. Students must pass eleven(11) skills with 100% per State Title 22 Regulations.	In Class Only
Field/physical activity observations	Evaluation of the students ability to obtain ten (10) medical by assessments in forty-four (44) hours of clinical and field assignments.	Out of Class Only
Laboratory projects	Evaluation of correct assessment and treatment modalities application of medical adjuncts and medication administration.	In Class Only

Student participation/contribution	Evaluation of participation and contributions during class.	In Class Only
Laboratory projects	Evaluation on content and knowledge of subject matter of FEMA IS-100 two (2) hours, FEMA IS-200b three (3) hours, FEMA IS-700b three and one half (3.5), FEMA Active Shooter IS-907 one (1) hour, FEMA IS-346 Orientation to Hazardous Materials for Medical Personnel, ten (10) hours, IS-5.A: An into to Hazardous Materials, ten (10) hours	In and Out of Class
Student participation/contribution	Evaluation of participation and contributions during class, lab and during online discussions.	In and Out of Class
Computational/problem-solving evaluations	Evaluation of correct assessment, critical thinking and treatment modalities through ten (10) Fisdap Unit exams. Each exam is 90 to 120 minutes in length and prepares the student for the NREMT Certification Examination.	In Class Only

Assignments

Other In-class Assignments

Students must list and define key terms listed in each chapter of the text.

Students must complete review questions listed at the end of each chapter in the text.

Students must complete the critical thinking exercise included at the end of each chapter of the text.

Students must demonstrate the ability to perform required skills set forth by the National Registry of Emergency Medical Technicians.

Students must demonstrate the ability to administer advanced skills required by Title 22 such as the use of Epinephrine and Narcan to treat life threatening conditions in patients Students must demonstrate a fundamental understanding of Tactical Casualty Care Students must show proficiency in documenting 10 patient contact in a electronic system.

Other Out-of-class Assignments

Online FEMA assignments

Online Lectures through Navigate 2 LMS

Online Quizzes

Online Scenarios

Online Vocabulary Assignments

Online Active Shooter Assignment

Two Online Hazardous Materials Awareness Classes

Grade Methods

Letter Grade Only

Distance Education Checklist

Include the percentage of online and on-campus instruction you anticipate.

Online %

30

On-campus %

70

Lab Courses

How will the lab component of your course be differentiated from the lecture component of the course?

Hands on skills in a group setting with primary instructors evaluating student progress. This is a face to face meeting.

From the COR list, what activities are specified as lab, and how will those be monitored by the instructor?

All national registry skills will be monitored by the instructor using NREMT forms that are stored electronically through the Fisdap management system. These forms are nationally and state approved.

How will you assess the online delivery of lab activities?

Students have individual access to Navigate2 and all content is accessible to the instructor.

Instructional Materials and Resources**If you use any other technologies in addition to the college LMS, what other technologies will you use and how are you ensuring student data security?**

Students have individual log ins and all content is accessed through Canvas

If used, explain how specific materials and resources outside the LMS will be used to enhance student learning.

FISDAP provides practice exams for the students that are similar to the style of content and questions structure provided by National Registry. Statistically, students are more successful in passing their national test if they prep through the FISDAP system

Effective Student/Faculty Contact**Which of the following methods of regular, timely, and effective student/faculty contact will be used in this course?****Within Course Management System:**

Timely feedback and return of student work as specified in the syllabus
Discussion forums with substantive instructor participation
Regular virtual office hours
Private messages
Online quizzes and examinations
Weekly announcements

External to Course Management System:

Direct e-mail
Posted audio/video (including YouTube, 3cm mediasolutions, etc.)
Telephone contact/voicemail

For hybrid courses:

Scheduled Face-to-Face group or individual meetings
Field trips
Orientation, study, and/or review sessions

Briefly discuss how the selected strategies above will be used to maintain Regular Effective Contact in the course.

Students may contact the instructor for questions or issues via email, phone, office hours or in person during the lecture or skills labs.

If interacting with students outside the LMS, explain how additional interactions with students outside the LMS will enhance student learning.

N/A

Other Information**MIS Course Data****CIP Code**

51.0904 - Emergency Medical Technology/Technician (EMT Paramedic).

TOP Code

125000 - Emergency Medical Services

SAM Code

C - Clearly Occupational

Basic Skills Status

Not Basic Skills

Prior College Level

Not applicable

Cooperative Work Experience

Not a Coop Course

Course Classification Status

Credit Course

Approved Special Class

Not special class

Noncredit Category

Not Applicable, Credit Course

Funding Agency Category

Not Applicable

Program Status

Program Applicable

Transfer Status

Transferable to CSU only

Allow Audit

No

Repeatability

No

Materials Fee

No

Additional Fees?

No

Approvals**Curriculum Committee Approval Date**

02/05/2019

Academic Senate Approval Date

02/14/2019

Board of Trustees Approval Date

03/15/2019

Chancellor's Office Approval Date

1/06/2020

Course Control Number

CCC000611437

Programs referencing this courseEmergency Medical Services Certificate of Achievement (<http://catalog.collegeofthedesert.eduundefined?key=134/>)Fire Technology Certificate of Achievement (<http://catalog.collegeofthedesert.eduundefined?key=146/>)Fire Technology AS Degree (employment preparation) (<http://catalog.collegeofthedesert.eduundefined?key=63/>)