

5055 Santa Teresa Blvd Gilroy, CA 95023

Course Outline

COURSE: JFT 17 DIVISION: 50 ALSO LISTED AS:

TERM EFFECTIVE: Summer 2024 CURRICULUM APPROVAL DATE: 04/09/2024

SHORT TITLE: EMERGENCY MED TECH

LONG TITLE: Emergency Medical Technician

<u>Units</u>	Number of Weeks	<u>Type</u>	Contact Hours/Week	Total Contact Hours
5	18	Lecture:	2.5	45
		Lab:	8	144
		Other:	0	0
		Total:	10.5	189

Out of Class Hrs: 90.00 Total Learning Hrs: 279.00

COURSE DESCRIPTION:

This course is designed to prepare students to render pre-hospital basic life support services, including cardiopulmonary resuscitation, with emphasis on field application, practices, and techniques vital to the interaction of EMT-I personnel with all levels of emergency medical personnel. PREREQUISITE: First Aid CPR Professional Rescuers.

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES

L - Standard Letter Grade

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:

02 - Lecture and/or discussion

03 - Lecture/Laboratory

04 - Laboratory/Studio/Activity

STUDENT LEARNING OUTCOMES:

By the end of this course, a student should:

- 1. Describe the basic concepts of human anatomy and physiology and identify terminology relevant to the assessment and maintenance of the human body's vital functions.
- 2. Demonstrate several emergency care procedures under simulated conditions.
- 3. Apply fundamental knowledge of the emergency medical services (EMS) system, safety/well-being of the emergency medical technician (EMT), medical/legal, and ethical issues to the provision of emergency care.

COURSE OBJECTIVES:

By the end of this course, a student should:

1. Complete a thorough patient assessment including: scene size-up, primary assessment, vital signs, assessment, reassessment, communication with dispatch and accurate documentation to assist in determining appropriate medical care for various injuries or illnesses.

COURSE CONTENT:

Curriculum Approval Date: 04/09/2024

Lecture Content:

Content:

- I. Introduction to Medical Care (9 hours)
- a. Emergency medical services system
- b. Roles and responsibilities of the EMT Basic
- II. Workforce Safety and Wellness (9 hours)
- a. Infectious Diseases
- b. Personal protection equipment (PPE)
- III. Medical/Legal and Ethical Issues (9 hours)
- a. Ethical responsibilities
- b. Advance directives, consent, refusals
- c. Organ donors
- IV. Communications and Documentation (9 hours)
- a. Therapeutic communication
- b. Documentation
- 1. Recording patient findings
- 2. Report writing
- V. Medical Terminology (9 hours)
- a. The four components
- b. Directional terms

Because of the integrated nature of the lab/lecture method of instruction,

the content for both lecture and lab are infused is some subjects.

Lab Content:

- VI. The Human Body (6 hours)
- a. Anatomy
- b. Physiology
- c. Pathophysiology
- VII. Life Span Development (2 hours)
- a. Stages of Life
- b. Infants
- VIII. Lifting and Moving Patients (3 hours)
- a. Patient moving equipment
- b. Technical skills
- IX. Patient Assessment (6 hours)
- a. Assessment Findings
- b. Scene Size-Up
- c. Primary Assessment
- d. History Taking
- e. Secondary Assessment
- f. Monitoring Devises
- g. Reassessment
- X. Airway Management (6 hours)
- a. Airway anatomy
- b. Airway Assessment
- c. Respiration
- b. Artificial Ventilation
- d. Pathophysiolgy
- XI. Principles of Pharmacology (4 hours)
- a. Medication Administration
- b. Emergency Medications
- XII. Shock (2 hours)
- a. Shock
- b. Resuscitation
- XIII. Basic Life Support Resuscitation (4 hours)
- a. Respiratory failure or arrest
- b. Cardiac failure or arrest
- c. CPR and AED
- XIV. Medical Overview (4 hours)
- a. Medicine
- b. Transport
- c. Destination
- d. Infectious disease management
- XV. Respiratory Emergencies (3 hours)
- a. Anatomy
- b. Signs and symptoms
- c. Management

[Lab Content CONTINUED]

- XVI. Cardiovascular Emergencies (3 hours)
- a. Medicine
- b. Signs and symptoms
- c. Assessment and management
- XVII. Neurological Emergencies (3 hours)
- a. Medicine
- b. Anatomy of brain and spinal cord
- c. Assessment
- d. Management

XVIII. Gastrointestinal and Urologic Emergencies (3 hours)

- a. Medicine
- b. Abdominal and Gastrointestinal Disorders
- c. Genitourinary / Renal
- XIX. Endocrine and Hematologic Emergencies (3 hours)
- a. Medicine
- b. Endocrine Disorders
- c. Hematology
- XX. Immunologic Emergencies (3 hours)
- a. Medicine
- b. Immunology
- c. Hypersensitivity disorders
- d. Anaphylactic reactions
- XXI. Toxicology (3 hours)
- a. Medicine
- b. Recognition and management
- XXII. Psychiatric Emergencies (3 hours)
- a. Medicine
- b. Recognition of Behaviors that pose a risk
- c. Assessment and management

XXIII. Gynecologic Emergencies (4 hours)

- a. Medicine
- b. Vaginal bleeding
- c. sexual assault
- d. Infections
- e. Management

XXIV. Trauma Overview (4 hours)

- a. Rapid transport and destination issues
- b. Multi-system trauma
- c. Blast injuries
- d. Management of the trauma patient

XXV. Bleeding (3 hours)

- a. Recognition and management of bleeding
- b. Assessment and management

COURSE CONTENT (CONTINUED): [Lab Content CONTINUED]

XXVI. Soft-Tissue Injuries (2 hours)

- a. Wounds
- b. Burns
- c. Chemicals in eyes or on skin

XXVII. Face and Neck Injuries (6 hours)

- a. Nosebleed
- b. Spine trauma
- c. Spine trauma
- d. Facial fractures
- e. Skull fractures
- f. Foreign bodies in the eyes
- g. Dental trauma

XXVIII. Head and Spine Injuries (6 hours)

- a. Penetrating neck trauma
- b. Laryngotracheal injuries
- c. Spine trauma
- d. Facial fractures
- e. Skull fractures
- f. Foreign bodies in eyes
- g. Dental trauma

XXIX. Chest Injuries (6 hours)

- a. Blunt versus penetrating mechanisms
- b. Hemothorax
- c. Pneumothorax
- d. Cardiac tamponade
- e. Rib fractures
- f. Flail chest
- g. Commotio cordis

XXX. Abdominal and Genitourinary Injuries (4 hours)

- a. Evisceration
- b. Impaled Object
- c. Injuries to the external genitalia
- d. Vaginal bleeding due to trauma
- e. Sexual assault

XXXI. Orthopaedic Injuries (5 hours)

- a. Open fractures
- b. Closed fractures
- c. Dislocations
- d. Amputations
- e. Sprains/strains
- f. Pelvic fractures
- g. Amputations/replantation

[Lab Content CONTINUED]

XXXII. Environmental Emergencies (5 hours)

- a. Submersion incidents
- b. Temperature related illness
- c. Near drowning
- d. Bites and envenomations
- e. Dysbarism
- f. Electrical injury
- g. Radiation exposure

XXXIII. Obstetrics and Neonatal Care (6 hours)

- a. Normal Delivery
- b. Abnormal delivery
- c. Third trimester bleeding
- d. Spontaneous abortion/ miscarriage
- e. Ectopic pregnancy
- f. Preeclmpsia/Eclampsia
- g. Neonatal care
- h. Trauma
- i. Special considerations in trauma

XXXIV. Pediatric Emergencies (6 hours)

- a. Patients with special challenges
- b. Upper airway obstruction
- c. Lower airway reactive disease
- d. Respiratory distress
- e. Shock
- f. Seizures
- g. Sudden infant death syndrome
- h. Trauma

[Lab Content CONTINUED]

XXXV. Geriatric Emergencies (6 hours)

- a. Impact of age-related changes on assessment and care
- b. Cardiovascular diseases
- c. Respiratory diseases
- d. Neurological diseases
- e. Endocrine disease
- f. Dementia
- g. Patients with special challenges
- h. Trauma

XXXVI. Patients with special challenges (6 hours)

- a. Abuse
- b. Neglect
- c. Homelessness
- d. Poverty
- e. Bariatrics
- f. Technology dependent
- g. Tracheostomy care/dysfuntion
- h. Home care
- i. Sensory deficity / loss
- j. Developmental disability

XXXVII. Transport Operations (2 hours)

- a. Ambulance
- b. Air Medical
- c. Medicine
- d. Infectious Diseases

XXXVIII. Vehicle Extrication and Special Rescue (2 hours)

- a. Safe vehicle extrication
- b. Use of hand held tools

XXXIX. Incident Management (6 hours)

- a. Incident management system
- b. Triage principles
- c. Resource management
- d. Triage
- e. Hazardous materials awareness
- XL. Terrorism Response and Disaster Management (2 hours)
- a. EMS Operations
- b. Mass-Casualty Incidents do to Terrorism and Disaster
- XLI. A Team Approach to Health Care (2 hours)
- a. Continuum of care
- b. Advantages of a team
- c. Rescue management
- d. Critical elements necessary to ensure effective transfer of patient

METHODS OF INSTRUCTION:

Class discussion, skills demonstration, skills test, written test

OUT OF CLASS ASSIGNMENTS:

Required Outside Hours: 30 Assignment Description:

Writing assignments: Each student or group of students write one or two paragraphs on one illness and one

injury that could directly affect this a chosen organ/structure. What would they expect to see?

Required Outside Hours: 30

Assignment Description: After a distribution of a body diagram drawn on an 8.5 ? 11-inch piece of paper. Using a prepared list of terms (such as directional terms), have students write the number of the term on the corresponding area of the diagram.

Required Outside Hours: 30 Assignment Description:

Provide each student with a research article based on a neurologic disease in the infant, child, or adult population. The student should read the article and write a one-paragraph summary to present to the class during this topic discussion.

METHODS OF EVALUATION:

Writing assignments

Evaluation Percent 25

Evaluation Description

Written patient assessments

Written reports

Final written exam 80% or greater

Skill demonstrations

Evaluation Percent 50

Evaluation Description

Class Performance/s;

Field Work;

Performance Exams

Objective examinations

Evaluation Percent 25

Evaluation Description

Objective Final Exam to be graded by instructor using AAOS standards.

REPRESENTATIVE TEXTBOOKS:

Emergency Care & Transport of sick and Injured , AAOS (American Academy of Orthopedic Surgeons) , Jones and Bartlett Learning , 2020.

ISBN: 9781284080179

Rationale: Students also have access to the Emergency Care & Transport of sick and Injured Portal for student lab manual access.

12 Grade

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 201370

Not Transferable

UC TRANSFER:

Not Transferable Not Transferable

SUPPLEMENTAL DATA:

Basic Skills: N
Classification: Y

Noncredit Category: Y Cooperative Education:

Program Status: 1 Program Applicable

Special Class Status: N

CAN:

CAN Sequence:

CSU Crosswalk Course Department:

CSU Crosswalk Course Number:

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: N

Occupational Course: C

Maximum Hours: Minimum Hours:

Course Control Number: CCC000566612 Sports/Physical Education Course: N

Taxonomy of Program: 213300