Course Outline

COURSE: JFT 17       DIVISION: 50       ALSO LISTED AS:

TERM EFFECTIVE: Spring 2015       CURRICULUM APPROVAL DATE: 10/13/2014

SHORT TITLE: EMERGENCY MED TECH

LONG TITLE: Emergency Medical Technician

<table>
<thead>
<tr>
<th>Units</th>
<th>Number of Weeks</th>
<th>Type</th>
<th>Contact Hours/Week</th>
<th>Total Contact Hours</th>
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<td>5</td>
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<td>Lecture: 2.7</td>
<td>48.6</td>
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<td></td>
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<td>Lab:    8.2</td>
<td>147.6</td>
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<td>Other:   0</td>
<td>0</td>
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<td>Total:   10.9</td>
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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: CPR Emergency Responder ADVISORY: Eligible for English 250 and English 420.

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:

1. Define the components of the statewide EMS systems.

Measure: written exam

PLO:
2. Describe the basic concepts of human anatomy and physiology.
Measure: class exercise, written exam
PLO:
ILO: 3,2,1
GE-LO:
Year assessed or anticipated year of assessment: 2014

3. Identify and list terminology relevant to the assessment and maintenance of the human body's vital functions.
Measure: written exam, class exercise
PLO:
ILO: 3,2,1
GE-LO:
Year assessed or anticipated year of assessment: 2014

4. Recognize the nature and seriousness of the patient's condition or extent of injuries to assess requirements for emergency medical care.
Measure: class exercise, role play, written test
PLO:
ILO: 3,2,1
GE-LO:
Year assessed or anticipated year of assessment: 2014

5. Identify information relative to the management of trauma and medical emergencies with specific emphasis on overdoses, diabetes, and strokes.
Measure: class exercise, written exam
PLO:
ILO: 3,2,1
GE-LO:
Year assessed or anticipated year of assessment: 2014

6. Demonstrate techniques of victim extrication from vehicles.
Measure: role play, class demonstration, performance exam
PLO:
ILO: 3,2,1
GE-LO:
Year assessed or anticipated year of assessment: 2014

7. Demonstrate emergency care procedures under simulated conditions.
Measure: Skills Exam
PLO:
ILO: 3,2
GE-LO:
Year assessed or anticipated year of assessment: 2014
CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS
Curriculum Approval Date: 10/13/2014

1-4 Hours
Introduction to Medical Care
a. Emergency medical services system
b. Roles and responsibilities of the EMT - Basic
Student Learning Outcome:
Students will identify the roles and responsibilities of Emergency Medical Technician
Homework - reading

4 Hours
The Well-being of the EMT-I
a. Aspects of emergency care
b. Personal protection equipment (PPE)
Student Learning Outcome:
Students will don and examine the importance of personal protection equipment while working as an EMT
Homework - reading assignment

4 Hours
Medical/Legal and Ethical Issues
a. Ethical responsibilities
b. Advance directives, consent, refusals
c. Organ donors
Student Learning Outcome:
Students will identify advance directives, consent forms and forms associated with organ donation.
Homework - writing assignment, reading assignment

8 Hours
The Human Body
a. Anatomy
Student Learning Outcome:
Students will examine the anatomy of the human body.
Homework - reading assignment, test preparation

4 Hours
Lifting and Moving Patients
a. Body mechanics
b. carrying techniques
Student Learning Outcome:
Student will describe body mechanics and demonstrate carrying techniques for lifting and moving patients safety.

4-10 Hours
Airway Management
a. Airway anatomy
b. Maintain an open airway
c. Oxygen
d. Resuscitation
Student Learning Outcome:
Students demonstrate how to maintain an open airway.
Homework - reading assignment
2 Hours
Scene Size-up
a. Evaluate a scene for potential hazards
Student Learning Outcome:
Students will complete an evaluation of the scene for the safety of themselves and patients.
Homework - reading assignment
4 Hours
The Initial Assessment
a. Determining responsiveness
b. Assessment of the airway
c. Breathing and circulation
d. Priorities of patient care
Student Learning Outcome:
Students will classify the patient's condition or extent of injuries and assess requirements for emergency medical care.
Homework - reading assignment, quiz preparation
2-10 Hours
Vital Signs and SAMPLE History
a. Base line vital signs
Student Learning Outcome:
Students will demonstrate how to take vitals and then assess patient in role playing exercise.
Homework - reading assignment
2-8 Hours
Assessment of the Trauma Patient
a. Method of assessing patients' traumatic injuries
Student Learning Outcome:
Students will demonstrate methods to assess and treat traumatic injuries in role playing exercise.
Homework - reading assignment, quiz preparation
4 Hours
Assessment of the Medical Patient
a. Medical complaints
b. Signs and symptoms
c. Physical exam
Student Learning Outcome:
Students will complete a medical assessment of mock patients during role play exercises.
4 Hours
Ongoing Assessment
a. The Importance of trending, recording changes in patient's condition
b. Reassessment of interventions
Student Learning Outcome:
Students will discuss the importance of ongoing assessments during treatment.
4 Hours
Communications
a. Communication systems
b. Radio communications
c. Interpersonal communication
Student Learning Outcome:
Students will demonstrate how to communicate clearly and accurately in emergency situations during class exercise.

Homework - radio codes memorization
4 Hours

Documentation
a. Written Reports
b. Refusals

Student Learning Outcome:
Students will identify what is required information on written medical reports.

Homework - reading assignment
4 Hours

General Pharmacology
a. Basic pharmacology
b. Administration of medications

Students will describe how to administer medication during class exercises.

Homework - reading exercise
40-92 Hours
10-20 hours
10 hours

Hours
Emergency Medical Care
Respiratory Emergencies
a. Assessment of respiratory difficulty
b. Inhalers

Cardiac Emergencies, CPR, AED
a. Cardiovascular system
b. Automated External Defibrillator (AED)
c. CPR

Acute Abdominal Emergencies
a. Assessment

Diabetic Emergencies and Altered Mental Status
a. Altered level of consciousness /mental status
b. Administration of oral glucose

Allergic Reactions
a. Signs and symptoms
b. Epinephrine auto-injector

Poisoning and Overdose Emergencies
a. Signs and symptoms
b. Administration of activated charcoal

Environmental Emergencies
a. Safety of providers
b. Safety of patient

Behavioral Emergencies
a. Management of the disturbed patient

Obstetrics and Gynecological Emergencies
a. Anatomical and physiological changes during pregnancy
b. Deliveries
c. Neonatal resuscitation
Putting it All Together for the Medical Patient
a. Skills Demonstration Review
   Bleeding and Shock
   a. Internal bleeding
   b. External bleeding
   c. Symptoms of shock
   Soft-tissue Injuries
   a. Anatomy of skin
   b. Burns
   c. dressing and bandaging
Musculoskeletal Injuries
   a. Musculoskeletal system
   b. Deformed extremity
   c. Splinting
   Injuries to the Head and Spine
   a. Review nervous and skeletal system
   b. Signs and symptoms of injury
   c. Assessment
   d. Cervical immobilization
Putting it All Together for the Trauma Patient
a. Demonstrate Trauma Skills
   Infants and Children
   a. Developmental and anatomical differences in infants and children
   b. Medical situations
   c. Trauma situations
   Geriatric Patients
   a. Symptoms
   Ambulance Operations
   a. Pre-hospital environments
   b. Vehicle operations
   c. Transferring patients
   Gaining Access and Rescue Operations
   a. Roles and responsibilities
   b. Gaining access
   Special Operations
   a. Crash scene
   b. Natural disaster
   c. Rescue operations
   EMS Response to Terrorism
   a. Roles and responsibilities
   Advanced Airway Management
   a. Nasogastric tube
   b. Orotracheal intubation
   Student Learning Outcomes:
   Students will be complete skills demonstrations and written assignments relative to the management of trauma and medical emergencies and ambulance operations.
   Homework - reading assignment, quiz preparation,
   Clinical Experience
a. Students will demonstrate and document the clinical experience of EMT training Skills Final and Course Written Final Because of the integrated nature of the lab/lecture method of instruction, the content for both lecture and lab are infused is some subjects.

**METHODS OF INSTRUCTION:**
Class discussion, skills demonstration, skills test, written test

**METHODS OF EVALUATION:**
CATEGORY 1 - The types of writing assignments required:
Percent range of total grade: 20 % to 30 %
Written Homework
Reading Report
Other: Homework - reading assignments

CATEGORY 2 - The problem-solving assignments required:
Percent range of total grade: 25 % to 35 %
Field Work
Quizzes

CATEGORY 3 - The types of skill demonstrations required:
Percent range of total grade: 30 % to 50 %
Class Performance/s
Field Work
Performance Exams

CATEGORY 4 - The types of objective examinations used in the course:
Percent range of total grade: 15 % to 25 %
Multiple Choice
True/False Matching Items
Other: Skill demonstrations

CATEGORY 5 - Any other methods of evaluation:
Percent range of total grade: 0% to 0%

**REPRESENTATIVE TEXTBOOKS:**
n/a

**ARTICULATION and CERTIFICATE INFORMATION**
Associate Degree:
CSU GE:
IGETC:
CSU TRANSFER:
  Transferable CSU, effective 201370
UC TRANSFER:
  Not Transferable
SUPPLEMENTAL DATA:
Basic Skills: N
Classification: I
Noncredit Category: Y
Cooperative Education:
Program Status: 1 Program Applicable
Special Class Status: N
CAN:
CAN Sequence:
CSU Crosswalk Course Department: JFT
CSU Crosswalk Course Number: 17
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: Y
Occupational Course: C
Maximum Hours:
Minimum Hours:
Course Control Number: CCC000196213
Sports/Physical Education Course: N
Taxonomy of Program: 213300