Course Outline

COURSE: JFT 17          DIVISION: 50         ALSO LISTED AS:

TERM EFFECTIVE: Fall 2020          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>Lecture: 2.5</td>
<td>45</td>
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<td>Lab: 8</td>
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<td>Total: 10.5</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: First Aid CPR Responder ADVISORY: Eligible for English 280 or English 1A

PREREQUISITES:

Completion of AH 32, as UG, with a grade of C or better.

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.
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.

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS
Curriculum Approval Date: 10/13/2014
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 Devices
g. Reassessment
X. Airway Management (6 hours)
a. Airway anatomy
b. Airway Assessment
c. Respiration
b. Artificial Ventilation
d. Pathophysiology
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
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

tXXII. 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

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

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. Sponaneous 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

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/dysfunction
h. Home care
i. Sensory deficiency / 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
Percent of total grade: 25.00 %
Written patient assessments Written reports Final written exam 80% or greater
Skill demonstrations
Percent of total grade: 50.00 %
Class Performance/s; Field Work; Performance Exams
Objective examinations
Percent of total grade: 25.00 %
Objective Final Exam to be graded by instructor using AAOS standards.

Recommended Representative Textbooks
Students also have access to the Emergency Care & Transport of sick and Injured Portal for student lab manual access.
ISBN: 9781284080179
Reading Level of Text, Grade: 12
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: 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