



El Camino College

COURSE OUTLINE OF RECORD - Official

I. GENERAL COURSE INFORMATION

Subject and Number: Fire and Emergency Technology 130
Descriptive Title: Basic Prehospital Care Principles

Course Disciplines: Emergency Medical Technologies

Division: Industry and Technology

Catalog Description: This course provides an introduction to medical terminology along with a review of surface anatomy and physiology. The course presents an overview of the human nervous system, cardiovascular system, and respiratory system. Aseptic techniques will be described and demonstrated.

Conditions of Enrollment: Enrollment Limitation

Admission to Paramedical Technician program

Course Length: Full Term Other (Specify number of weeks): 13
Hours Lecture: 3.00 hours per week TBA
Hours Laboratory: 0 hours per week TBA
Course Units: 2.00

Grading Method: Letter
Credit Status: Associate Degree Credit

Transfer CSU: No
Transfer UC: No

General Education:

El Camino College: _____

CSU GE: _____

IGETC: _____

II. OUTCOMES AND OBJECTIVES

A. COURSE STUDENT LEARNING OUTCOMES (The course student learning outcomes are listed below, along with a representative assessment method for each. Student learning outcomes are not subject to review, revision or approval by the College Curriculum Committee)

1. SLO #1 UPPER AND LOWER AIRWAY Students will be able to compare and

- contrast the major components and functions of the upper and lower airway.
2. SLO #2 PHYSIOLOGY Students will be able to identify cellular components and relate them to fluid and electrolyte replacement.
 3. SLO #3 NERVOUS SYSTEM Students will be able to identify structures in the nervous system.

The above SLOs were the most recent available SLOs at the time of course review. For the most current SLO statements, visit the El Camino College SLO webpage at <http://www.elcamino.edu/academics/slo/>.

B. Course Student Learning Objectives (The major learning objective for students enrolled in this course are listed below, along with a representative assessment method for each)

1. Analyze patient treatment positions and give an example of the appropriate field use of each position.
Performance exams
2. Identify the features of human surface anatomy.
Quizzes
3. Identify the general functions of the human nervous system.
Quizzes
4. Recognize and explain the functions of the three parts of the cardiovascular system.
Performance exams
5. Compare and contrast the functions of both the upper airway and lower airway.
Oral exams
6. Select the correct medication and suctioning procedures while using aseptic clinical techniques.
Performance exams

III. OUTLINE OF SUBJECT MATTER (Topics are detailed enough to enable a qualified instructor to determine the major areas that should be covered as well as ensure consistency from instructor to instructor and semester to semester.)

Lecture or Lab	Approximate Hours	Topic Number	Major Topic
Lecture	3	I	MEDICAL TERMINOLOGY A. Definitions 1. Word root 2. Compound word 3. Combining form 4. Prefix 5. Suffix B. Identify abbreviations provided
Lecture	6	II	SURFACE ANATOMY AND BODY SYSTEMS A. Standard anatomical positions B. Definitions C. Patient positions

			<ul style="list-style-type: none"> D. Body movements E. Body parts
Lecture	3	III	APPLIED PHYSIOLOGY <ul style="list-style-type: none"> A. Definitions B. Fluid compartments C. Fluid movement D. Isotonic solution E. Fluid balance F. Cell functioning
Lecture	12	IV	NERVOUS SYSTEM <ul style="list-style-type: none"> A. Functions of the nervous system B. Components of the nervous system C. Blood supply D. Central Nervous System (CNS) dysfunction E. Level of consciousness F. Oxygen Therapy for Chronic Obstructive Pulmonary Disease (COPD) patients G. Cerebral dysfunction H. Brainstem injuries <ul style="list-style-type: none"> I. Respiratory patterns J. Spinal cord and vertebrae K. Sympathetic and parasympathetic L. Alpha/Beta receptors
Lecture	9	V	CARDIOVASCULAR SYSTEM <ul style="list-style-type: none"> A. Components of the cardiovascular system B. Blood flow C. Systole and diastole D. Heart valves E. Functions of the circulatory system F. Arteries and veins G. Pulses and their location H. Cell functions <ul style="list-style-type: none"> I. Skin color
Lecture	3	VI	RESPIRATORY SYSTEM <ul style="list-style-type: none"> A. Functions of the upper and lower airway B. Structures of the respiratory system C. Respiratory muscles D. Definitions E. Signal symptoms of respiratory distress F. Acidosis
Lecture	3	VII	ASEPTIC TECHNIQUES

			<ul style="list-style-type: none"> A. Definitions B. Medication and suctionary skills C. Use of sterile gloves and dressings D. Sterile field
Total Lecture Hours	39		
Total Laboratory Hours	0		
Total Hours	39		

IV. PRIMARY METHOD OF EVALUATION AND SAMPLE ASSIGNMENTS

A. PRIMARY METHOD OF EVALUATION:

Skills demonstrations

B. TYPICAL ASSIGNMENT USING PRIMARY METHOD OF EVALUATION:

In the classroom setting, after PowerPoint presentations, demonstrate to the instructor the ability to use the following aseptic techniques:

- a. Don sterile gloves
- b. Apply dressing
- c. Perform sterile suctioning
- d. Maintain a sterile field
for the patient

C. COLLEGE-LEVEL CRITICAL THINKING ASSIGNMENTS:

1. In the classroom setting, after PowerPoint presentations, discuss with your instructor how the concept of Starling's Law relates to cardiac muscle contractility.
2. In a classroom setting, after PowerPoint presentations, explain to the instructor the causes of metabolic acidosis that is present in a patient in a cardiopulmonary arrest.

D. OTHER TYPICAL ASSESSMENT AND EVALUATION METHODS:

Performance exams
 Objective Exams
 Quizzes
 Class Performance
 Homework Problems

Multiple Choice
Completion
Matching Items
True/False
Other (specify):
SIMULATIONS

V. INSTRUCTIONAL METHODS

Demonstration
Discussion
Group Activities
Guest Speakers
Lecture
Role Play
Simulation

Note: In compliance with Board Policies 1600 and 3410, Title 5 California Code of Regulations, the Rehabilitation Act of 1973, and Sections 504 and 508 of the Americans with Disabilities Act, instruction delivery shall provide access, full inclusion, and effective communication for students with disabilities.

VI. WORK OUTSIDE OF CLASS

Study
Answer questions
Skill practice
Required reading
Problem solving activities
Written work

Estimated Independent Study Hours per Week: 6

VII. TEXTS AND MATERIALS

A. UP-TO-DATE REPRESENTATIVE TEXTBOOKS

Andrew Pollack, Bob Elling, Mike Smith . Nancy Caroline's EMERGENCY CARE IN THE STREETS. 7th ed. American Academy of Orthopedic Surgeons, 2013.
The County of Los Angeles. ADVANCED PREHOSPITAL CARE CURRICULUM.
Department of Health Services, 2004.
Qualifier Text: INDUSTRY STANDARD,

B. ALTERNATIVE TEXTBOOKS

C. REQUIRED SUPPLEMENTARY READINGS

D. OTHER REQUIRED MATERIALS

VIII. CONDITIONS OF ENROLLMENT

A. Requisites (Course and Non-Course Prerequisites and Corequisites)

Requisites	Category and Justification
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B. Requisite Skills

Requisite Skills

C. Recommended Preparations (Course and Non-Course)

Recommended Preparation	Category and Justification
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D. Recommended Skills

Recommended Skills

E. Enrollment Limitations

Enrollment Limitations and Category	Enrollment Limitations Impact
Admission to Paramedical Technician program	Required course for Paramedical Technician Option - Associate in Science Degree

Course created by Craig Neumann on 02/01/1994.

BOARD APPROVAL DATE: 05/16/1994

LAST BOARD APPROVAL DATE: 01/23/2017

Last Reviewed and/or Revised by Kevin Huben on 09/30/2016