



El Camino College
COURSE OUTLINE OF RECORD – Official

Course Acronym:	FTEC
Course Number:	130
Descriptive Title:	Basic Prehospital Care Principles
Division:	Health Sciences and Athletics
Department:	Fire and Emergency Technology
Course Disciplines:	Emergency Medical Technologies
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.
Prerequisite:	
Co-requisite:	
Recommended Preparation:	
Enrollment Limitation:	Admission to Paramedical Technician program
Hours Lecture (per week):	3
Hours Laboratory (per week):	0
Outside Study Hours:	6
Total Course Hours:	39
Course Units:	2
Grading Method:	Letter Grade only
Credit Status:	Credit, degree applicable
Transfer CSU:	No
Effective Date:	
Transfer UC:	No
Effective Date:	
General Education:	ECC
Term:	
Other:	
CSU GE:	
Term:	
Other:	

	IGETC:
	Term:
	Other:
Student Learning Outcomes:	<p>SLO #1 Upper and Lower Airway</p> <p>Students will be able to compare and contrast the major components and functions of the upper and lower airway.</p> <p>SLO #2 Physiology</p> <p>Students will be able to identify cellular components and relate them to fluid and electrolyte replacement.</p> <p>SLO #3 Nervous System</p> <p>Students will be able to identify structures in the nervous system.</p>
Course Objectives:	<ol style="list-style-type: none"> 1. Analyze patient treatment positions and give an example of the appropriate field use of each position. 2. Identify the features of human surface anatomy. 3. Identify the general functions of the human nervous system. 4. Recognize and explain the functions of the three parts of the cardiovascular system. 5. Compare and contrast the functions of both the upper airway and lower airway. 6. Select the correct medication and suctioning procedures while using aseptic clinical techniques.
Major Topics:	<p>I. MEDICAL TERMINOLOGY (3 hours, lecture)</p> <p>A. Definitions</p> <ol style="list-style-type: none"> 1. Word root 2. Compound word 3. Combining form 4. Prefix 5. Suffix <p>B. Identify abbreviations provided</p> <p>II. SURFACE ANATOMY AND BODY SYSTEMS (6 hours, lecture)</p> <ol style="list-style-type: none"> A. Standard anatomical positions B. Definitions C. Patient positions D. Body movements E. Body parts <p>III. APPLIED PHYSIOLOGY (3 hours, lecture)</p> <ol style="list-style-type: none"> A. Definitions B. Fluid compartments C. Fluid movement

- D. Isotonic solution
- E. Fluid balance
- F. Cell functioning

IV. NERVOUS SYSTEM (12 hours, lecture)

- 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
- I. Respiratory patterns
- J. Spinal cord and vertebrae
- K. Sympathetic and parasympathetic
- L. Alpha/Beta receptors

V. CARDIOVASCULAR SYSTEM (9 hours, lecture)

- 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
- I. Skin color

VI. RESPIRATORY SYSTEM (3 hours, lecture)

- 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

VII. ASEPTIC TECHNIQUES (3 hours, lecture)

- A. Definitions
- B. Medication and suctioning skills
- C. Use of sterile gloves and dressings

	D. Sterile field
Total Lecture Hours:	39
Total Laboratory Hours:	0
Total Hours:	39
Primary Method of Evaluation:	3) Skills demonstration
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
Critical Thinking Assignment 1:	In the classroom setting, after PowerPoint presentations, discuss with your instructor how the concept of Starling's Law relates to cardiac muscle contractility.
Critical Thinking Assignment 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.
Other Evaluation Methods:	Class Performance, Completion, Homework Problems, Matching Items, Multiple Choice, Objective Exam, Performance Exams, Quizzes, True/False
Instructional Methods:	Demonstration, Discussion, Group Activities, Guest Speakers, Lecture, Role play/simulation
If other:	
Work Outside of Class:	Answer questions, Problem solving activity, Required reading, Skill practice, Study, Written work (such as essay/composition/report/analysis/research)
If Other:	
Up-To-Date Representative Textbooks:	Andrew Pollack, Bob Elling, Mike Smith . <u>Nancy Caroline's EMERGENCY CARE IN THE STREETS</u> . 8th ed. American Academy of Orthopedic Surgeons, 2018. The County of Los Angeles. <u>ADVANCED PREHOSPITAL CARE CURRICULUM</u> . Department of Health Services, 2004. (Discipline Standard)
Alternative Textbooks:	
Required Supplementary Readings:	
Other Required Materials:	
Requisite:	
Category:	

Requisite course(s): List both prerequisites and corequisites in this box.	
Requisite and Matching skill(s):Bold the requisite skill. List the corresponding course objective under each skill(s).	
Requisite Skill:	
Requisite Skill and Matching Skill(s): Bold the requisite skill(s). If applicable	
Requisite course:	
Requisite and Matching skill(s):Bold the requisite skill. List the corresponding course objective under each skill(s).	
Requisite Skill:	
Requisite Skill and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s). If applicable	
Enrollment Limitations and Category:	Admission to Paramedical Technician program
Enrollment Limitations Impact:	
Course Created by:	Craig Neumann
Date:	05/16/1994
Original Board Approval Date:	05/16/1994
Last Reviewed and/or Revised by:	Kevin Huben
Date:	03/13/2023
Last Board Approval Date:	07/17/2023 effective FALL 2024