Course Acronym:	FTEC
Course Number:	134
Descriptive Title:	Medical Emergencies
Division:	Health Sciences and Athletics
Department:	Fire and Emergency Technology
Course Disciplines:	Emergency Medical Technologies
Catalog Description:	This course covers a variety of medical emergencies that a paramedic is most likely to encounter. Topics presented include, but are not limited to, communicable diseases, chest pain, drug abuse/poisonings, diabetes, neurological complications, and respiratory distress.
Prerequisite:	
Co-requisite:	
Recommended Preparation:	
Enrollment Limitation:	Admission to Paramedical Technician Program
Hours Lecture (per week):	6
Hours Laboratory (per week):	1
Outside Study Hours:	11
Total Course Hours:	91
Course Units:	4
Grading Method:	Letter Grade only
Credit Status:	Credit, degree applicable
Transfer CSU:	
Effective Date:	
Transfer UC:	
Effective Date:	
General Education: ECC	
Term:	
Other:	
CSU GE:	
Term:	
Other:	
IGETC:	
Term:	
Other:	

Student Learning Outcomes:	**SLO #1 Altered Consciousness** Students completing this course will be able to successfully choose the appropriate field treatment for a patient with an altered level of consciousness. **SLO #2 Endocrine** Students will be able to identify endocrine emergencies and formulate a plan of care for the patient experiencing an endocrine emergency. **SLO #3 Cardiovascular Emergencies** Students will be able to identify cardiovascular emergencies and formulate a plan of car for the patient experiencing a cardiovascular emergency.
Course Objectives:	1. Compare general methods for preventing the transmission of communicable diseases. 2. Using the mnemonic Depth of Coma, Eyes, Respiration, Mental (DERM), collect the facts to be assessed for a patient with an altered level of consciousness. 3. Choose the appropriate field treatment for a patient with an altered level of consciousness. 4. Categorize predisposing factors for diabetes mellitus. 5. Select the appropriate field treatment for hazardous materials exposed to the skin. 6. Compare the routes by which poisons and drugs can be introduced into the body. 7. Assess the common predisposing factors to Congestive Heart Failure (CHF)/pulmonary edema.
Major Topics:	**I. COMMUNICABLE DISEASES (6 hours, lecture)** A. Definitions of communicable diseases B. Passive and active immunity C. Chain of infection D. Communicable disease reporting E. Personal protective practices **II. COMMUNICABLE DISEASES (1 hour, lab)** A. Definitions of communicable diseases B. Passive and active immunity C. Chain of infection D. Communicable disease reporting E. Personal protective practices **III. NEUROLOGICAL EMERGENCIES (6 hours, lecture)** A. Definitions of neurological diseases B. Secondary assessment - Level of Consciousness (LOC) C. Syncope D. Seizures

E. Alcohol related problems

IV. NEUROLOGICAL EMERGENCIES (1 hour, lab)

A. Definitions of neurological diseases
B. Secondary assessment - LOC
C. Syncope
D. Seizures
E. Alcohol related problems

V. DIABETES (6 hours, lecture)

A. Definitions of diabetes
B. Insulin and glucagon
C. Types of diabetes mellitus
D. Hypoglycemia
E. Hyperglycemia

VI. DIABETES (1 hour, lab)

A. Definitions of diabetes
B. Insulin and glucagon
C. Types of diabetes mellitus
D. Hypoglycemia
E. Hyperglycemia

VII. SUBSTANCE ABUSE AND POISONING (6 hours, lecture)

A. Depressants, stimulants,

hallucinogens
B. Overdose treatment
C. Hazardous material exposure
D. Cocaine

VIII. SUBSTANCE ABUSE AND POISONING (1 hour, lab)

A. Depressants, stimulants,

hallucinogens
B. Overdose treatment
C. Hazardous material exposure
D. Cocaine

IX. RESPIRATORY EMERGENCIES (6 hours, lecture)

A. Definitions of respiratory emergencies
B. Assessments
C. Airway obstructions
D. Asthma
E. Bronchitis and Pneumonia

F. Chronic Obstructed Pulmonary Disease (COPD)
G. Allergic reactions

X. RESPIRATORY EMERGENCIES (1 hour, lab)

A. Definitions of respiratory emergencies
B. Assessments
C. Airway obstructions
D. Asthma
E. Bronchitis and Pneumonia
F. COPD
G. Allergic reactions

XI. CONGESTIVE HEART FAILURE (6 hours, lecture)

A. Blood flow
B. Definitions of Congestive Heart Failure (CHF)
C. CHF
D. Field treatment
E. Medications

XII. CONGESTIVE HEART FAILURE (1 hour, lab)

A. Blood flow
B. Definitions of CHF
C. CHF
D. Field treatment
E. Medications

XIII. CORONARY ARTERY DISEASE (6 hours, lecture)

A. Definitions of coronary artery disease
B. Atherosclerosis
C. Angina
D. Medications
E. Field treatments
F. Myocardial infarction

XIV. CORONARY ARTERY DISEASE (1 hour, lab)

A. Definitions of coronary artery disease
B. Atherosclerosis
C. Angina
D. Medications
E. Field treatments
F. Myocardial infarction

XV. SHOCK (6 hours, lecture)

A. Definitions of shock
B. Stages of shock
C. Signs and symptoms
D. Field treatment
E. Anti-shock trousers

XVI. SHOCK (1 hour, lab)

A. Definitions of shock
B. Stages of shock
C. Signs and symptoms
D. Field treatment
E. Anti-shock trousers

XVII. NON TRAUMATIC ABDOMINAL EMERGENCIES (6 hours, lecture)

A. Abdominal organs
B. Gastrointestinal system
C. Definitions of non traumatic

   abdominal emergencies
D. Field treatments

XVIII. NON TRAUMATIC ABDOMINAL EMERGENCIES (1 hour, lab)

A. Abdominal organs
B. Gastrointestinal system
C. Definitions of non-traumatic

   abdominal emergencies
D. Field treatments

XIX. ENVIRONMENTAL EMERGENCIES (6 hours, lecture)

A. Heat related emergencies
B. Frostbite
C. Hypothermia
D. Drowning and near drowning
E. Decompression sickness (bends)
F. Bites and stings
G. Field treatment
H. Radiation

XX. ENVIRONMENTAL EMERGENCIES (1 hour, lab)

A. Heat related emergencies
B. Frostbite
C. Hypothermia
D. Drowning and near drowning
E. Decompression sickness (bends)

	F. Bites and stings G. Field treatment H. Radiation **XXI. SIMULATIONS (18 hours, lecture)** A. Assessing neurological emergencies B. Assessing substance abuse and alcohol situations C. Assessing respiratory complications D. Assessing chest pain problems E. Assessing shock F. Assessing environmental emergencies **XXII. SIMULATIONS (3 hours, lab)** A. Assessing neurological emergencies B. Assessing substance abuse and alcohol situations C. Assessing respiratory complications D. Assessing chest pain problems E. Assessing shock F. Assessing environmental emergencies
Total Lecture Hours:	78
Total Laboratory Hours:	13
Total Hours:	91
Primary Method of Evaluation:	2) Problem solving demonstrations (computational or non-computational)
Typical Assignment Using Primary Method of Evaluation:	Simulation scenario 134-OI presents a suspected overdose/ingestion patient. List the specific assessments that should be made in this situation on a one-page evaluation sheet.
Critical Thinking Assignment 1:	Give an oral presentation comparing emergencies where passive and active immunity are critical factors. In your concluding remarks, specify the course of treatment for each emergency identified in your presentation.
Critical Thinking Assignment 2:	Write a one-page essay assessing how insulin and glycogen function to maintain blood glucose level. Cite two examples of how a prehospital care provider would treat a patient with a suspected low blood sugar level.
Other Evaluation Methods:	Class Performance, Completion, Homework Problems, Matching Items, Multiple Choice, Other Exams, Performance Exams, Quizzes, True/False
Instructional Methods:	Demonstration, 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:	Due to the scheduled one hour of lab per week, the amount of independent study time was reduced by one hour. This keeps the unit value of 4 in compliance.
Up-To-Date Representative Textbooks:	Andrew Pollack, Bob Elling, Mike Smith. Nancy Caroline's EMERGENCY CARE IN THE STREETS. 8th ed. American Academy of Orthopedic Surgeons, 2018. The County of Los Angeles - Department of Health Services. ADVANCED PREHOSPITAL CARE CURRICULUM. 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:	
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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:	02/01/1994
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