

EMS244 : Medical Emergencies

General Information

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Course Code (CB01) :	EMS244
Course Title (CB02) :	Medical Emergencies
Department:	EMS
Proposal Start:	Fall 2024
TOP Code (CB03) :	(1251.00) Paramedic*
CIP Code:	(51.0904) Emergency Medical Technology/Technician (EMT Paramedic).
SAM Code (CB09) :	Advanced Occupational
Distance Education Approved:	No
Will this course be taught asynchronously?:	No
Course Control Number (CB00) :	CCC000642893
Curriculum Committee Approval Date:	10/25/2023
Board of Trustees Approval Date:	01/09/2024
Last Cyclical Review Date:	10/25/2023
Course Description and Course Note:	EMS 244 expands on the paramedic student's knowledge to formulate a field impression and implement a treatment plan. This course will cover principles of epidemiology; the branch of medicine which deals with the incidence, distribution, and possible control of diseases and pathophysiology; the disordered physiological processes associated with disease or injury as it relates to common medical emergencies including but not limited to: neurological, thoracic, cardiac, abdominal and gastrointestinal disorders, immunological, infectious diseases, endocrine disorders, psychiatric disorders, toxicological, respiratory, hematological, genitourinary, gynecological, and diseases of the eyes, ears, nose and throat. This course discusses the need to understand how a patient's race, culture, ethnicity, gender, sexual orientation, mental health status, physical and neurological differences can impact how they handle emergencies and respond to treatment.
Justification:	New Course
Academic Career:	<ul style="list-style-type: none">Credit
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Academic Senate Discipline

Primary Discipline:	<ul style="list-style-type: none">Emergency Medical Technologies
Alternate Discipline:	
Alternate Discipline:	

Course Development

Basic Skill Status (CB08)

Course is not a basic skills course.

Allow Students to Gain Credit by Exam/Challenge

Course Special Class Status (CB13)

Course is not a special class.

Pre-Collegiate Level (CB21)

Not applicable.

Grading Basis

- Grade with Pass / No-Pass Option

Course Support Course Status (CB26)

Course is not a support course

Transferability & Gen. Ed. Options

General Education Status (CB25)

Not Applicable

Transferability

Not transferable

Transferability Status

Not transferable

Units and Hours

Summary

Minimum Credit Units (CB07) 3.5

Maximum Credit Units (CB06) 3.5

Total Course In-Class (Contact) Hours 90

Total Course Out-of-Class Hours 117

Total Student Learning Hours 207

Credit / Non-Credit Options

Course Type (CB04)

Credit - Degree Applicable

Noncredit Course Category (CB22)

Credit Course.

Noncredit Special Characteristics

No Value

Course Classification Code (CB11)

Credit Course.

Variable Credit Course

Funding Agency Category (CB23)

Not Applicable.

Cooperative Work Experience
 Education Status (CB10)

Weekly Student Hours

	In Class	Out of Class
Lecture Hours	3	6
Laboratory Hours	2	0
Studio Hours	0	0

Course Student Hours

Course Duration (Weeks)	18
Hours per unit divisor	54
Course In-Class (Contact) Hours	
Lecture	54

Laboratory	36
Studio	0
Total	90

Course Out-of-Class Hours

Lecture	108
Laboratory	9
Studio	0
Total	117

Time Commitment Notes for Students

Adult ICU Hospital Clinical (8 tba hours)

Units and Hours - Weekly Specialty Hours

Activity Name	Type	In Class	Out of Class
Adult ICU Hospital Clinical	Laboratory	0	0.5

Pre-requisites, Co-requisites, Anti-requisites and Advisories

Co-Requisite

EMS240 - Fundamentals of Paramedic Practice (in-development)

AND

Co-Requisite

EMS242 - Pharmacology (in-development)

Entry Standards

Entry Standards	Description
No value	No value

Course Limitations

Cross Listed or Equivalent Course

No value

Specifications

Methods of Instruction

Methods of Instruction Lecture

Methods of Instruction Laboratory

Methods of Instruction Multimedia

Out of Class Assignments

- Written lab reports (e.g patient assessments)
- Hospital clinical time

Methods of Evaluation

Rationale

Exam/Quiz/Test

Block exam

Evaluation

Lab skills evaluation

Writing Assignment

Evaluation of patient care reports

Exam/Quiz/Test

Final exam

Textbook Rationale

No Value

Textbooks

Author	Title	Publisher	Date	ISBN
Bryan E. Bledsoe	Paramedic Care: Principles and Practice	Pearson	2022	9780136914594

Other Instructional Materials (i.e. OER, handouts)

No Value

Materials Fee

No value

Learning Outcomes and Objectives

Course Objectives

Identify the principles of epidemiology and pathophysiology as they relate to medical emergencies.

Recall the relationship between a specific body system and the disease which effects it.

Recite a medical assessment and perform correct treatment of a medical patient.

Discuss the need to understand how a patient's race, culture, ethnicity, gender, sexual orientation, mental health status, physical and neurological differences can impact how they handle emergencies and respond to treatment.

SLOs

Utilize safe patient care through proper assessment and treatment of a trauma patient incorporating the knowledge of how a patient's diverse and holistic needs can impact how they handle emergencies and respond to treatment. Expected Outcome Performance: 70.0

Apply knowledge of scientific principles, pathophysiology of a specific disease and how disease affects a certain body system of acutely ill patients in the prehospital setting. Expected Outcome Performance: 70.0

Course Content

Lecture Content

Introduction (1 hour)

- Principles of epidemiology
- Principles of pathophysiology as they relate to medical emergencies
- Overview of anatomy and physiology

Medical emergencies (6 hours)

- Child assessment
- Adult assessment

Neurological emergencies (6 hours)

- Assessment
- Treatment

Thoracic emergencies (6 hours)

- Assessment
- Treatment

Cardiac emergencies (5 hours)

- Assessment
- Treatment

Abdominal, gastrointestinal, and genitourinary disorders (6 hours)

- Assessment
- Treatment

Immunological, infectious disease and endocrine disorders (6 hours)

- Assessment
- Treatment

Psychiatric disorders (6 hours)

- Assessment
- Treatment

Toxicological emergencies (6 hours)

- Assessment

- Treatment

Obstetrics and gynecological emergencies (6 hours)

- Assessment
- Treatment

Total Hours: 54

Laboratory/Studio Content

Laboratory Content (36 hours)

- Patient assessment
- High fidelity simulations
- Virtual patients (If available)

Total Hours: 36