

Glendale College

Course Outline of Record Report

Course ID 010662

Revision - June 2025

EMS248 : Cardiology

General Information

Author:	<ul style="list-style-type: none"> Abraham Baca
Course Code (CB01) :	EMS248
Course Title (CB02) :	Cardiology
Department:	EMS
Proposal Start:	Spring 2026
TOP Code (CB03) :	(1251.00) Paramedic*
CIP Code:	(51.0904) Emergency Medical Technology/Technician (EMT Paramedic).
SAM Code (CB09) :	B - Advanced Occupational
Distance Education Approved:	No
Will this course be taught asynchronously?:	No
Course Control Number (CB00) :	CCC000642895
Curriculum Committee Approval Date:	06/11/2025
Board of Trustees Approval Date:	07/08/2025
Last Cyclical Review Date:	10/25/2023
Course Description and Course Note:	EMS 248 introduces the student to cardiovascular emergencies and the care of patients presenting with such emergencies. Course topics include: assessment of the cardiovascular system, electrocardiogram (ECG) acquisition and interpretation of various heart dysrhythmias, pathophysiology of cardiovascular disease and treatments (including pharmacology) indicated for presenting disease.
Justification:	Mandatory Revision
Academic Career:	<ul style="list-style-type: none"> Credit
Mode of Delivery:	No value
Author:	No value
Course Family:	No value

Academic Senate Discipline

Primary Discipline:	<ul style="list-style-type: none"> Emergency Medical Technologies
Alternate Discipline:	No value
Alternate Discipline:	No value

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

General Education and C-ID

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 123.84

Total Student Learning Hours 213.84

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	0
Course In-Class (Contact) Hours	
Lecture	54

Laboratory	36
Studio	0
Total	90

Course Out-of-Class Hours

Lecture	108
Laboratory	15.84
Studio	0
Total	123.84

Time Commitment Notes for Students

Adult Cardiac Care Hospital Clinical (16 tba hours)

Units and Hours - Weekly Specialty Hours

Activity Name	Type	In Class	Out of Class
Adult Cardiac Care Hospital Clinical	Laboratory	0	0.88

Prerequisites, Corequisites, Recommended Corequisites, and Recommended Preparation**Co-Requisite**

EMS250 - Trauma Emergencies (in-development)

AND

Co-Requisite

EMS246 - Diverse Patient Populations (in-development)

AND

Prerequisite

EMS240 - Fundamentals of Paramedic Practice (in-development)

Outcomes

- List body structures and systems.
- Associate how disease or trauma affects each body system and structure.
- Write patient documentation correctly.
- Perform proper technique for aseptic IV therapy.

AND

Prerequisite

EMS242 - Pharmacology (in-development)

Outcomes

- Recall and apply applicable laws affecting prehospital medications.
- Determine indications and contraindications for prehospital medications.
- Identify, manipulate and solve medication dose formulas for both adult and pediatric patients.

AND**Prerequisite**

EMS244 - Medical Emergencies (in-development)

Outcomes

- Compare pathophysiology and a specific disease.
- Summarize how disease affects a certain body system.
- Perform the correct assessment and treatment of a medical patient.

AND**Prerequisite**

EMS252 - Paramedic Internship Prep

Objectives

- Review paramedic's role in a prehospital environment as part of a healthcare team.
- Complete the necessary documents and supplies to begin the internship.
- Demonstrate proficiency in documentation by utilizing accepted medical chart format and terminology.

Entry Standards

Entry Standards

Description

No value

No value

Course Limitations

Cross Listed or Equivalent Course

Description

No value

No value

Requisite Validation**Upload Statistical Validation and/or other documents (if necessary)**

No Value

Specifications

Methods of Instruction

Methods of Instruction	Lecture			
Methods of Instruction	Laboratory			
Methods of Instruction	Multimedia			
Out of Class Assignments				
<ul style="list-style-type: none"> • Written lab reports (e.g patient assessments) • Hospital clinical time 				
Methods of Evaluation	Rationale			
Exam/Quiz/Test	Block exams			
Evaluation	Evaluation of lab skills			
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				

Learning Outcomes

Course Objectives

Summarize pathophysiology and any disease process of the cardiac system.

Perform a correct assessment and treatment of the cardiac patient.

Recall cardiac diseases and their treatments.

Classify cardiac diseases and their treatments.

Obtain valid American Heart Association (AHA) Advanced Cardiac Life Support (ACLS) card.

SLOs

Explain cardiac function, and correct placement and rhythm interpretation of 4-lead and 12-lead electrocardiogram. Expected Outcome Performance: 70.0

Practice safe paramedic care by achieving a passing score on the written and skills exam for American Heart Association Advanced Cardiac Life Support certification. Expected Outcome Performance: 70.0

Additional SLO Information

Does this proposal include revisions that might improve student attainment of course learning outcomes?

No

Is this proposal submitted in response to learning outcomes assessment data?

No

If yes was selected in either of the above questions for learning outcomes, explain and attach evidence of discussions about learning outcomes.

No Value

SLO Evidence

No Value

Course Content

Lecture Content

Introduction (8 hours)

- Introduction to cardiovascular system
- Pathophysiology of cardiac system
- Potential disease processes of the cardiac system
 - Effects of cardiac disease and diverse populations
 - Cultural factors, language barriers, age, religious affiliation, socioeconomic status, and lack of knowledge may affect a patient's willingness to accept certain cardiac treatments and how to handle resistance.

Cardiac patient (10 hours)

- Presentation
- Assessment
 - Various assessments for diverse populations
- Treatment
 - Various treatment modalities for diverse patient populations

Pharmacology (10 hours)

- Aspirin
- Nitroglycerin
- Epinephrine
- All other relevant cardiac medications
 - Various medication possibilities for a diverse patient group

Electrocardiogram (ECG) (10 hours)

- 3 lead
- 4 lead
- 12 lead
- Pacing
- Defibrillation
- Interpretation

Advanced Cardiac Life Support (ACLS) (16 hours)

- ACLS medications
- ACLS guidelines
- ACLS practicum
- ACLS scenarios
- ACLS certification

Total Hours: 54**Laboratory/Studio Content****Laboratory (36 hours)**

- 3 lead
- 4 lead
- 12 lead practice
- Hospital clinical time

Total hours: 36**Additional Information****Repeatability**

Not Repeatable

Justification (if repeatable was chosen above)

No Value

Is it possible this course will have a material fee?

No Value

I have contacted my library liaison (<https://campusguides.glendale.edu/faculty/liaisons>):

No Value

What term(s) will this course be offered?

No Value

Will any additional resources be needed for this course? (Click all that apply)

No Value

If additional resources are needed, add a brief description and cost in the box provided.

No Value