

# **Administrative Master Syllabus**

### **Course Information**

Course Title	Cardiology
Course Prefix, Num. and Title	EMSP 2444
Division	VOCS
Department	Emergency Medical Services Program
Course Type	WECM Course
Course Catalog Description	Assessment and management of patients with cardiac emergencies. Includes single and multi-lead ECG interpretation.
Pre-Requisites	Current AEMT certification from the Texas Department of State Health Services OR current AEMT certification from the National Registry OR EMSP 1355 with a current EMT certification from the Texas Department of State Health Services.
Co-Requisites	EMSP 2261, EMSP 2330, EMSP 2306, and EMSP 2434

### **Semester Credit Hours**

Total Semester Credit Hours (SCH): Lecture Hours:	4:3:3
Lab/Other Hours	
Equated Pay Hours	4.5
Lab/Other Hours Breakdown: Lab Hours	3
Lab/Other Hours Breakdown: Clinical Hours	Enter Clinical Hours Here.
Lab/Other Hours Breakdown: Practicum Hours	Enter Practicum Hours Here.
Other Hours Breakdown	List Total Lab/Other Hours Here.

## **Approval Signatures**

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

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#### **Additional Course Information**

**Topical Outline:** Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

- -Cardiovascular Emergencies
- A. Review of Cardiovascular Anatomy and Physiology- Cardiovascular Anatomy, Cardiac Physiology, Electrophysiology
- B. Electrocardiographic Monitoring- The Electrocardiogram, Relationship of the ECG to Electrical Events in the Heart, Interpretation of Rhythm Strips
- C. Arrhythmias Mechanism of Impluse Formation, Classification of Arrhythmias, Arrhythmias Originating in the SA Node, Arrhythmias Originating in the Atria, Arrhythmias Originating within the AV Junction, Arrhythmias Originating in the Ventricles, Pulseless Electrical Activity, Arrhythmias Resulting from Disorders of Conduction, ECG Changes Due to Electrolyte Abnormalities and Hypothermia
- E. Assessment of the Cardiovascular Patient- Scene Size-Up and Primary Assessment, Focused History, Secondary Assessment
- F. Management of Cardiovascular Emergencies- Basic Life Support, Advanced Life Support, Monitoring ECG in the Field, Vagal Maneuvers, Precordial Thump, Pharmacological Management, Defibrillation, Emergency Synchronized Cardioversion, Transcutaneous Cardiac Pacing, Carotid Sinus Massage, Support and Communication
- G. Managing Specific Cardiovascular Emergencies- Acute Coronary Syndrome, Angina Pectoris, Myocardial Infarction, Heart Failure, Cardiac Tamponade, Hypertensive Emergencies, Cardiogenic Shock, Cardiac Arrest, Peripheral Vascular and Other Cardiovascular Emergencies
- H. Prehospital ECG Monitoring- Prehospital 12-Lead ECG Monitoring

#### **Course Learning Outcomes:**

#### Learning Outcomes – Upon successful completion of this course, students will:

Be able to integrate pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan for the cardiac patient.

#### Methods of Assessment:

Computer Based Exams, critical skills development, scenario assessments, assessment graphs, patient care assessments, oral interviews, critical thinking skills, various hands on skills evaluations and decision making exercises.

#### Required text(s), optional text(s) and/or materials to be supplied by the student:

\*AEMT Package ISBN# 9780135573631 (WCJC Student Packet) which includes the following material:\*

ISBN	Author	Description	Ed
0134572033	<b>BLEDSOE &amp; CHERRY</b>	PARAMEDIC CARE VOL 1	Current
0134569954	<b>BLEDSOE &amp; PORTER</b>	PARAMEDIC CARE VOL 2	Current
0134538730	<b>BLEDSOE &amp; PORTER</b>	PARAMEDIC CARE V3	Current
0134449746	<b>BLEDSOE &amp; PORTER</b>	PARAMEDIC CARE VOL 4	Current
0134449754	<b>BLEDSOE &amp; PORTER</b>	PARAMEDIC CARE VOL 5	Current
0134442733	ALEXANDER & BELLE	MBL W/PE ETX A/C ADV EMT	Current
0134572998	BLEDSOE	MBL/PE ET AC PAR CARE V1	Current
013464106X	LIMMER	AEMT REVIEW	Current
0134442237	PLATINUM EDUCATION	IAL GRP PLATINUM PLANNER SA	C Current

(\*If continuing from the AEMT Program the student has already purchased\*)

AND

Paramedic Package ISBN# 9780135573679 (WCJC Student Packet) which includes the following material:

ISBN Description

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9780132896603 9780134380995 9780134381749 9780134609669	EMSTESTING.COM: Paramedic student Access Card Basic Arrhythmias MyBRADYLab with Pearson eText Access Card for Basic Arrhythmias Paramedic Review Plus	
Suggested Course	Maximum:	
List any specific o	r physical requirements beyond a typical classroom required to teach the	
course.		
Skills lab, various mani	kins and EMS teaching aids.	
<b>Course Requirements/Grading System:</b> Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.		
Affective - 10% Class Assignments— 10 Chapter Tests- 15% Major Exams- 35% Final Exam- 30%	%	
Grade Scale: A= 90-100 B= 80-89 F= 0-79		
Curriculum Check	list:	
☐ Administrative (	General Education Course (from ACGM, but not in WCJC Core) – No additional documents	
needed.		
☐ Administrative \	WCJC Core Course. Attach the Core Curriculum Review Forms	
□Criti	cal Thinking	
□Com	nmunication	
□Emp	oirical & Quantitative Skills	
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 $\square$ Teamwork

☐ Social Responsibility
☐ Personal Responsibility

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**■ WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist