Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Allied Health Sciences
Paramedic Program
Fall Semester 2011/2012
Course Syllabus

Course Information	
Course Title	Paramedic Management of Cardiovascular Emergencies
Course code	Para 307
Credit Hours	3 credit hours (2 hours theory, 1 hour practicum)
Prerequisites	Med 242, Para 303
Time	(Sunday,Tuesday, Thursday: 10.15 am – 11.15 am) theory Section 1 Monday(8:15-11:15)practical Section 2 Wednesday (8:15-11:15)
Place	Paramedic lab
Instructor	Eihab khasawneh
Office Location	Faculty of Applied Medical Sciences L2
Office Phone	00962-2-7201000 Ext 26935
Office Hours	(SUNDAY , Tuesday,Thursday 11-12.
E-mail	Eakhasawneh1@just.edu.jo
Teaching Assistant	Muaid ZO'bi

Course Description
This course provides knowledge in the pathophysiology and management of cardiovascular disease and related emergencies. Topics include review of anatomy and physiology of the heart and circulation system, basics of electrophysiology, assessment of the cardiac patients, pathophysiology of atherosclerosis, peripheral vascular emergencies, pharmacological interventions, dysrhythmia recognition and management of cardiac emergencies.

Text Book	
Title 1	Essentials of Paramedic Care
Author(s)	Bryan E. Bledsoe, Robert S. Porter, Richard A. Cherry
Publisher	Brady
Year	2007
Edition	2nd Edition
Book Website	
Title 2	Paramedic Practice Today
	Barbara Aehlert (Ed.)
	Mosby JEMS Elsevier 2010 Volume 1

	http://evolve.elsevier.com/Aehlert/paramedic

Assessment Policy		
Assessment Type	**Expected Due Date**	**Weight**
Midterm exam	24/11/2016	40
Lab evaluation and test	15/12/2016	20
Final theortical exam Exam	TBA	27
Practical final exam	TBA	13
Total	-	100

Course Objectives	Percentage
1. This course will cover the anatomy and physiology of cardiovascular system.	8.3%
2. This course will discuss etiology of cardiovascular disorders.	8.3%
3. This course will cover the electrophysiology of the heart.	8.3%
4. This course will cover the basics and principles of ECG interpretation.	8.3%
5. This course will discuss in depth various cardiac dysrhythmias based on its origin.	8.3%
6. This course will cover ACLS algorithm.	8.3%
7. This course will discuss the importance of prehospital 12-lead ECG monitoring.	8.3%
8. This course will cover the pathologies of cardiovascular emergencies.	8.3%
9. This course will discuss clinical evaluation and assessment of cardiovascular patients in the prehospital field.	8.3%
10. This course will cover the management of different cardiac emergencies.	8.3%
11. This course will encourage students to be active participants in its content.	8.3%
12. This course will encourage the engagement of evidence-based practice.	8.3%

Teaching & Learning Methods

Textbooks, handouts, audio-video presentation, power point presentations, and practical demonstrations will be used to accomplish the objectives as well as the expected outcomes.

Teaching duration:

- Duration: 15 weeks
- Lectures: 45 lecture, 1hour each,
- **Laboratory**: 12 lab, 3 hour each,

Useful Resources

- JUST university Library.
- lecture notes
- Other resources will be provided to the students including websites, articles, power point

presentations, and other study materials

Additional Notes

Attendance policy:

- Students are expected to attend all more than 90% of lectures.
- Each student is expected to sit in his numbered seat
- Empty seat will be counted as absent
- All absences will be entered electronically into the University site
- If absence is more than 10% student will be banned from the course after electronic notification from the university through student e-mail.

Cheating

- The instructor will follow JUST's roles and regulation

Expected workload:

Students are expected to take every effort to ensure satisfactory learning of the material given.

Feedback:

Concerns or complaints should be expressed in the first instance to the course instructor. If no resolution is forthcoming then the issue should be brought to the attention of the Department Chair and if still unresolved to the Dean.

Course Content

Day	Title of the Lecture	Reference	Lecturer
25/9	Orientation		Eihab Khasawneh
27/9	Introduction Cardiac anatomy and physiology: Review	Ch. 3	
29/9	Electrophysiology of the heart	Ch. 3, 28	
2/10	Electrocardiogram: principles and interpretation I	Ch. 3, 28	
4/10	Electrocardiogram: principles and interpretation II	Ch. 3, 28	
6/10	Electrocardiogram: principles and interpretation III		
9/10	Dysrhythmias: introduction	Ch. 28	
11/10	Dysrhythmias: SA node I	Ch. 28	
13/10	Dysrhythmias: SA node II	Ch. 28	

16/10	Dysrhythmias: AV junction I	Ch. 28	
18/10	Dysrhythmias: AV junction II	Ch. 28	
20/10	Dysrhythmias: ventricles	Ch. 28	
23/10	Dysrhythmias: Disorders of Conduction I	Ch. 28	
25/10	Dysrhythmias: Disorders of Conduction II	Ch. 28	
27/10	Assessment of the cardiovascular patient I	Ch. 28	
30/10	Assessment of the cardiovascular patient II	Ch. 28	
3/11	Management of cardiovascular patients I	Ch. 28	
6/11	Management of cardiovascular patients II	Ch. 28	
8/11	Pharmacology of cardiac emergencies	Ch. 28	
10/11	Management of cardiovascular patients: Electrical therapy	Ch. 28	
13/11	Management of cardiovascular patients : Angina	Ch. 28	
15/11	Management of cardiovascular patients : MI	Ch. 28	
17/11	ACS algorithms	Ch. 28	
24/11 /2016	Midterm exam		
27/11	Management of cardiovascular patients: CHF	Ch. 28	
29/11	Management of cardiovascular patients: Cardiogenic shock and cardiac arrest	Ch. 28	
1/12	Management of cardiovascular patients: Cardiac Tamponade, and Hypertensive emergencies I	Ch. 28	
4/12	Management of cardiovascular patients: Cardiac Tamponade, and Hypertensive emergencies II	Ch. 28	
6/12	Vascular emergencies I	Ch. 28	
8/12	Vascular emergencies II	Ch. 28	
PARAMEDIC CONFERENCE			
18/12	ACLS algorithms I	Ch. 28	
20/12	ACLS algorithms I	Ch. 28	
22/12	Revision		

The instructor reserves the right to make changes in the above syllabus at any time. The student has the right to be informed of any changes.

Statement of Acceptance of Syllabus: Any student who does not understand or accept the contents and terms of this syllabus must notify the instructor in writing within one week of receiving the syllabus. The syllabus is subject to change based on needs assessment at any time.

Statement on Professionalism: Professional behavior is expected of students at all times. Attitude and professional behavior are a minimum criterion for passing this class. Repeated lack of professional behavior will result in failure of the course. Examples of unprofessional behavior include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during lecture passing food during lecture, leaving a lecture prior to its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class.

Communication with instructor: Electronic-mail is the best way to reach me as I consistently check it. However students still can use the above listed phone numbers.

Cell phone and pagers: Please do not use cell phones or pagers in class. If you are depended upon for anticipated emergencies please put cell phones on vibration and answer the phone.

Lab schedule		
1	ECG	
2	Heart anatomy and physiology	
3	EGG LEADS PLACEMENT	
4	Dysrythmia I	
5	Dysrythmia II	
6	DysrythmiaIII	
7	Patient assessment I	
8	Patient assessment II	
9	ACS I	
10	ACS II	

11	ACLS I	
12	ACLS II	
13	Introcuction to CPR	

responder, primary care paramedic, advanced care paramedic, and critical care paramedic. (p. 18) 6. Describe what is meant by "citizen involvement in the EMS system." (pp. 15 - 16) 7. Discuss the role of the EMS physician in providing medical direction and prehospital care as an extension of the physician, the benefits of online and offline medical direction, and the process for. the development of local policies and protocols. (pp. 14 - 15) 8. Describe the relationship among the physician on the scene, the paramedic on the scene, and the EMS physician providing online medical dir