



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Paramedic
2013/2014
Course Syllabus

Course Information	
Course Title	Cardio-Pulmonary Resuscitation (CPR)
Course Code	PARA 320 (3 credit hours; theory 2 credit hours, practical 1 credit hour)
Prerequisites	PARA 305, PARA 307
Course coordinator	Ahmad Alrawashdeh
Office Location	Faculty of Applied Medical Science building, Second floor
Office Phone #	None
Office Hours	Wed (12:15-03:15), Thu (12:15-02:15)
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Teaching Assistant(s)	Majd Hussein Duaa

Course Description
<p>This course covers in depth paramedic management of pulmonary- cardiovascular emergencies. Understanding the cardiovascular system anatomy and physiology allows for integration and understanding of treatment modalities by the pre-hospital provider. It provides a systematic approach to the management of life threatening cardiac and respiratory emergencies for adult and pediatric patients. All components of Advanced Cardiac Life Support will also be covered. Skills will include 3 and 12 Lead ECG, electrical and medication therapies. This course improves student's knowledge and psychomotor skills through demonstrating variable scenarios by using simulator manikins and cardiac monitor.</p>

Textbook	
Title	1. Advanced cardiovascular life support provider manual
Author(s)	Field, J.M., Gonzales, L. ;Hazinski,M.F.; Ruple,J.
Publisher	American Heart Association
Year	2010
Edition	-
Book Website	www.heart.org
Other references	2. Haziniski, M.F., Gonzales, L., O'Neill, L.(2010). <i>Basic life support</i> . AHA. 3. Fiels, J.M., Gondales, L., Haziniski, M.F, Ruple, J. (2010). <i>Pediatric ADVANCE Life Support</i> . AHA

Assessment		
Assessment	Expected Due Date	Percentage
First Exam	TBA	20%
Second Exam	TBA	20%
Continuous assessment	TBA	20%
Final practical exam	TBA	13%
Final Exam	TBA	27%

Course Objectives	Percentage	Reference(s) Handouts
1. Understand the anatomy and physiology of pulmonary and cardiovascular systems.	8.3%	ACLS supplementary,
2. Demonstrate the correct way for connecting cardiac monitor and ECG device on Patient . Understand the basic principle of the cardiac electrical activity. Gain basic Knowledge of analyzing ECG and critical heart rhythms.	8.3%	4 Ref.1
3. Define myocardial ischemia, injury and infarction, angina and stroke	8.3%	4 Ref.1
4. Identify and demonstrate basic and advanced Airway management. Identify and demonstrate airway management during choking and obstruction.	8.3%	2, 7 Ref. 2
5. Demonstrate the correct sequences of BLS according to age group	8.3%	2 Ref.1 2, 3, 4, 5, 7 Ref.2
6. Demonstrate the way of using D\C shock and its Indication	8.3%	6 Ref. 2
7. Gain the skills and knowledge of using	8.3%	ACLS core

advance life support medications and its importance for adult and pediatric patients.		drugs, Ref.3
8. Define Core ECG arrest rhythmus, Nonarrest ECG rhythmus.	8.3%	4 Ref.1
9. Apply the theoretical ACLS and PALS gain Knowledge on cardiac manikin.	8.3%	3 Ref.1
10. Manage cardiac arrest until return of spontaneous circulation (ROSC), termination of resuscitation, or transfer of care.	8.3%	ACLS supplementary, Ref.3
11. Working effectively in a team manner and describe the job of each professional personnel.	8.3%	Ref.1
12. . Demonstrate effective communication as a member or leader of a resuscitation team and recognize the impact of team dynamics on overall team performance.		
13. Define some ethical and ethical issues facing CPR team	8.3%	Ref.1

Teaching & Learning Methods

- Class lectures, and video clips notes are designed to achieve the course objectives.
- You should read the assigned chapters before class and participate in class and do whatever it takes for you to grasp this material. Ask questions. Ask lots of questions.
- You are responsible for all material covered in the class.

Teaching duration:

- Duration: 15 weeks
- Lectures: 26 lectures, 1hour each, excluding the exam weeks and the orientation week
- Laboratory: 12 training lab,2 hour each, including the exam weeks.

Additional Notes

Attendance policy:

- Excellent attendance is expected.
- JUST policy requires the faculty member to assign ZERO grades (35) if a student misses 10% of the classes that are not excused.

Expected workload:

- Average workload student should expect to spend is 2 hours theory and 2 hours lab per week.

Feedback:

- Please communicate any concerns or issues either in class or at our offices hour.

Course Content			
Week	Title of the Lecture	Chapter in Textbook (handouts)	Lecturer
1	Orientation to the syllabuses course Identify the main content		Ahmad Alrawashdeh
2	The systemic Approach of the BLS primary Survey and ACLS Secondary Survey Human, Ethical, and Legal Dimensions of ECC and ACLS	ACLS supplementary, Ref.1	Ahmad Alrawashdeh
3	Airway Management Basic air way management, Airway opening maneuvers, choking, Advanced airway management, Suctioning	ACLS supplementary, Ref.1	Ahmad Alrawashdeh
4	Basic Life Support (BLS) ABC's, Chest compression, C-V ratio 1-rescure and 2 rescuer CPR Sequence; Adult, child and infant CPR External automated defibrillator	Ref. 2	Ahmad Alrawashdeh
5	Electrocardiogram(ECG) 12 lead ECG view, ECG electrode placement, ECG intervals, Dysarrhythmias	Ref.1	Ahmad Alrawashdeh
5	First Exam		
7	Advance Cardiac Life Support (ACLS) Cardiac Arrest (Asystole, PEA, Ventricular fibrillation, Pulseless Ventricular Tachycardia)	Ref.1	Ahmad Alrawashdeh
8	Post-Resuscitation and Shock Management	Ref.1	Ahmad Alrawashdeh
9	Advance Cardiac Life Support (ACLS) Bradycardia case	Ref.1	Ahmad Alrawashdeh
10	Advance Cardiac Life Support (ACLS) Tachycardia case	Ref.1 Ref.1	Ahmad Alrawashdeh
11	Defibrillator Pharmacology ACS and Stroke	Ref.1	Ahmad Al-Rawashdeh
12	Second Exam		
13	PALS	Ref.3	Ahmad Al-

			Rawashdeh
14	PALS	Ref.3	Ahmad Al-Rawashdeh
15	PALS	Ref.3	Ahmad Al-Rawashdeh
16	Final Exam period		

Course Content (Practical Lab)	
Week	Topics
2 nd	Airway Management Basic air way management, Airway opening maneuvers, choking, Advanced airway management, Suctioning
3 rd 4 th	Basic Life Support (BLS) ABC's, Chest compression, C-V ratio 1-rescure and 2 rescuer CPR Sequence; Adult, child and infant CPR External automated defibrillator
5 th 6 th	Electrocardiogram(ECG) 12 lead ECG view, ECG electrode placement, ECG intervals, Myocardial ischemia, injury, and infraction, Dysarrhythmias Stroke Defibrillator and External automated defibrillator and pacing Placement, switch on, synchronized and unsynchronized
7 th	Midterm Exam
8 th 9 th 10 th	Advance Cardiac Life Support (ACLS) Core ECG arrest rhythmus, Nonarrest ECG rhythmus, Algorithms
11 th 12 th	Pediatric Advanced Life Support (PALS) Core ECG arrest rhythmus, Nonarrest ECG rhythmus, Algorithms
13 th	Revision
14 th	Final Practical Exam

Best wishes in your semester
Ahmad Alrawashdeh MS, RN, Paramedic

