



**Jordan University of Science and Technology**  
**Faculty of Applied Medical Sciences**  
**Paramedics Department**

PARA311 Paramedic Management Of Cardiopulmonary Emergencies (1)

First Semester 2021-2022

**Course Catalog**

3 Credit Hours. This course provides knowledge in the pathophysiology and management of cardiopulmonary emergencies. This course focuses on advanced prehospital management of airway obstruction and ventilation, cardiac arrest and cardiac dysrhythmias. Topics include a review of anatomy and physiology of the respiratory and circulation system, illustration of advanced management of airway obstruction and ventilation, description of cardiac function compromise and dysrhythmias, and management of cardiac arrest and life-threatening dysrhythmias.

**Text Book**

<b>Title</b>	Emergency Care in the Street
<b>Author(s)</b>	Nancy Caroline
<b>Edition</b>	8th Edition
<b>Short Name</b>	Ref 1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref 2	Mosby?s Paramedic Textbook	Mick J. Sanders	5th Edition	

**Instructor**

Name	<b>Dr. Ahmad Alrawashdeh</b>
Office Location	-
Office Hours	Sun : 09:00 - 11:00 Mon : 09:30 - 10:30 Tue : 09:00 - 11:00 Wed : 09:30 - 10:30
Email	aaalrawashdeh@just.edu.jo

<b>Class Schedule &amp; Room</b>
Section 1: Lecture Time: Sun : 11:30 - 13:00 Room: PH2102  Section 2: Lecture Time: Tue : 11:30 - 13:00 Room: PH2102

<b>Prerequisites</b>		
<b>Line Number</b>	<b>Course Name</b>	<b>Prerequisite Type</b>
132240	PARA224 Health Assessment Lab	Prerequisite / Study

<b>Tentative List of Topics Covered</b>		
<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Week 1	Introduction to cardiopulmonary emergencies	From <b>Ref 1</b> , From <b>Ref 2</b>
Week 2	Anatomy and physiology of respiratory system	<b>Ch 15</b> From <b>Ref 1</b>
Week 3	Paramedic assessment of Airways and respiratory function	<b>Ch 15</b> From <b>Ref 1</b>
Week 4	Basic airway management and supplemental oxygen therapy	<b>Ch 15</b> From <b>Ref 1</b>
Week 5	Advanced airway management by endotracheal intubation	<b>Ch 15</b> From <b>Ref 1</b>
Week 7	Advanced airway management: Multi-lumen airways and Laryngeal mask airway	<b>Ch 15</b> From <b>Ref 1</b>
Week 6	Advanced airway management by endotracheal intubation: alternative methods	<b>Ch 15</b> From <b>Ref 1</b>
Week 8	Pharmacologic agents and surgical intervention for airway management and ventilation	<b>Ch 15</b> From <b>Ref 1</b>
Week 9	Assessment of a Patient with Dyspnea	<b>Ch 15</b> From <b>Ref 1</b>
Week 10	Pathophysiology, Assessment, and Management of Obstructive Upper Airway Diseases	<b>Ch 15</b> From <b>Ref 1</b>
Week 11	Pathophysiology, Assessment, and Management of Obstructive Lower Airway Diseases	<b>Ch 15</b> From <b>Ref 1</b>
Week 12	Pathophysiology, Assessment, and Management of Common Respiratory Problems	<b>Ch 15</b> From <b>Ref 1</b>
Week 13	Advanced life support algorithms Management of Cardiac arrest	<b>Ch 17</b> From <b>Ref 1</b>
Week 14	Advanced management of post-resuscitation (ROSC)	<b>Ch 17</b> From <b>Ref 1</b>

<b>Mapping of Course Outcomes to Program Student Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
Students will be able to demonstrate knowledge about the anatomy and physiology of the respiratory system	10%	

Students will be able demonstrate knowledge for assessing and managing cardiopulmonary emergencies.	10%	
Students will be able to apply basic and advanced management of ventilation and oxygenation.	10%	
Students will be able to show indication and contraindication of advanced artificial ventilation and airway such as endotracheal intubation and supraglottic airways, and mechanical ventilator.	20%	
Students will be able to show knowledge and skill of surgical airway management	10%	
Students will be able to demonstrate knowledge and process of basic and advanced cardiopulmonary resuscitation based on international guidelines [1Code 1, 1Code 6]	20%	

<b>Relationship to Program Student Outcomes (Out of 100%)</b>					
Code 1	Code 2	Code 3	Code 4	Code 5	Code 6
10					10

Date Printed: 2021-12-09