



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

PARA334 Paramedic Management Of Trauma And Injuries - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

3 Credit Hours. This course provides an intense study in pathophysiology and the management of trauma. It includes focus and rapid assessment of trauma patient, management of head injuries, spinal injuries, general seizures, abdominal injuries, burn injuries, orthopedic injuries, management of multi - trauma patients, and management of various types of shocks. Define the role of kinematics as an additional tool of patient assessment; Apply principles of kinematics to the assessment of patients whose mechanism of injury is rotational impact, motorcycle, bicycle, moped crash, pedestrian vs. motor vehicle, and fall.

Teaching Method: Blended

Text Book

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| Title | International Trauma Life Support for Emergency Care Providers. |
| Author(s) | John E. Campbell, Roy L. Alson. |
| Edition | 8th Edition |
| Short Name | Ref#1 |
| Other Information | |

Course References

| Short name | Book name | Author(s) | Edition | Other Information |
|------------|--|---|-------------|-------------------|
| Ref2 | Prehospital Trauma Life Support | National Association of Emergency Medical Technicians (NAEMT) | 9th Edition | |
| Ref3 | Paramedic Principles and Practice: A Clinical Reasoning Approach | Brett Williams, Linda Ross | 2nd Edition | |
| Ref4 | Nancy Carolpne?s Emergency Care in The Streets | Andrew N. Pollak , MD, FAAOS | 8th Edition | |

Instructor

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| Name | Dr. Alaa Oteir |
| Office Location | - |
| Office Hours | Sun : 11:30 - 12:30 Mon : 09:30 - 11:30 Tue : 11:30 - 12:30 Thu : 08:30 - 09:30 Thu : 10:30 - 11:30 |
| Email | aooteir@just.edu.jo |

| Class Schedule & Room | |
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| Section 1: Lecture Time: Sun, Tue : 10:30 - 11:30 Room: N1302 | |

| Prerequisites | | |
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| Line Number | Course Name | Prerequisite Type |
| 132280 | PARA228 Basic Management Of Trauma Emergencies Lab | Prerequisite / Study |

| Tentative List of Topics Covered | | |
|---|---------------------------------------|---|
| Weeks | Topic | References |
| Week 1 | Orientation Trauma Overview | From Ref#1 , From Ref2 , From Ref3 , From Ref4 |
| Week 2 | Trauma System and Mechanism of Injury | From Ref#1 , From Ref2 |
| Week 2 | Trauma assessment | From Ref#1 |
| Week 4 | Airway management in trauma | From Ref#1 , From Ref2 |
| Weeks 4, 5 | Thoracic trauma | From Ref#1 |
| Week 5 | Hemorrhage and shock | From Ref#1 |
| Week 6 | Head trauma | From Ref#1 |
| Week 7 | Spinal Trauma | From Ref#1 |
| Week 8 | Abdominal and Genitourinary Injuries | From Ref#1 |
| Week 9 | Musculoskeletal Injuries | From Ref#1 |
| Weeks 10, 11 | Burns | From Ref#1 |
| Week 12 | Special population trauma | From Ref#1 |
| Week 13 | Controversies in trauma management | From Ref#1 |

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| Week 14 | Special topics in trauma management | From Ref#1 |
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| Mapping of Course Outcomes to Program Outcomes and NQF Outcomes | Course Outcome Weight (Out of 100%) | Assessment method |
|--|-------------------------------------|-------------------|
| 1. Demonstrate the ability to assess the scene and present injuries through. a. Describe the scene size up and assessment and initial management of trauma patients. b. Describe the kinetics and biomechanics of blunt trauma. Discuss how to evaluate the mechanism of injury in cases of blunt trauma to determine likely injuries. c. Describe the physics of penetrating trauma and the effects of penetrating trauma on the body. Outline how to evaluate the mechanism of injury in cases of penetrating trauma to determine likely injuries [1PLO 1, 1PLO 2, 1PLO 3] [1L7K1] | 15% | |
| 2. Describe the anatomy, physiology, pathophysiology and prehospital assessment and management of the following: a. hemorrhage and shock b. soft-tissue trauma c. abdominal injuries d. burns injuries [1PLO 2, 1PLO 3, 1PLO 6, 1PLO 9] [1L7K1] | 15% | |
| Identify the major symptoms of thoracic trauma describing the signs of thoracic trauma. Define and explain pathophysiology and management of the following: flail chest, open pneumothorax, tension pneumothorax, hemothorax. Explain the cardiac involvement and management associated with blunt injury to the chest. [1PLO 2, 1PLO 3, 1PLO 6, 1PLO 9] [1L7S1, 1L7S2, 1L7S3] | 20% | |
| Discuss the assessment and management of trauma to the head, face, and neck, with special emphasis on early recognition of injuries, and early protection of the airway [1PLO 2, 1PLO 3, 1PLO 6, 1PLO 9] [1L7C1, 1L7C2, 1L7C3, 1L7C4] | 20% | |
| Discuss the assessment and management of musculoskeletal trauma, including discussions of realignment, splinting, and pain control. [1PLO 2, 1PLO 3, 1PLO 6, 1PLO 9] [1L7C1, 1L7C2, 1L7C3, 1L7C4] | 20% | |
| Discuss the various management specification in pediatric, pregnant an elderly population [1PLO 2, 1PLO 3, 1PLO 6, 1PLO 9] [1L7C1, 1L7C2, 1L7C3, 1L7C4] | 10% | |

| Relationship to Program Student Outcomes (Out of 100%) | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|
| PLO 1 | PLO 2 | PLO 3 | PLO 4 | PLO 5 | PLO 6 | PLO 7 | PLO 8 | PLO 9 |
| 5 | 26.25 | 26.25 | | | 21.25 | | | 21.25 |

| Relationship to NQF Outcomes (Out of 100%) | | | | | | | |
|--|------|------|------|------|------|------|------|
| L7K1 | L7S1 | L7S2 | L7S3 | L7C1 | L7C2 | L7C3 | L7C4 |
| 30 | 6.67 | 6.67 | 6.67 | 12.5 | 12.5 | 12.5 | 12.5 |

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| Policy |
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| Statement on Professionalism | Professional behavior is always expected of students. Attitude and professional behavior are a minimum criterion for passing this class. Examples of unprofessional behavior include but are not limited to missing classes, tardiness, lack of attention for a speaker, talking to others 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. |
| Cheating | University regulations will be applied on cases of cheating and/or plagiarism |
| Cell phone: | The use of cellular phones is prohibited in classrooms and during exams. The cellular phone must be switched off in classrooms and during exams. |
| Attendance | No points will be counted for points attendance of this class, however attending the lectures will greatly enhance your grade. The student is responsible for any information discussed in lecture sessions. It is imperative to attend all classes! |
| Absences: | University regulations will be applied. Students are not allowed to be absent for more than 20% of lectures for any reason or excuse. If a student exceeds the absence limit, he or she will not be allowed to sit for future course exams. (Please review university regulation for more details) |
| Make-up Exam | Make-up exams is entitled for students who miss the exam with accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (Please review university regulation for more details) |
| Feedback | Concerns, complaints, questions, and/or feedback are appreciated and will be important for the instructor. You can contact your instructor using the e-mail or during office hours |

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