

## Course Specification Card for Emergency Medicine

College	College of Medicine	Department	Medical Education		
Course Name (English)	Emergency Medicine	Course Name (Arabic)	طب الطوارئ		
Course Number	<b>1000504</b>	Course Code	<b>1000-504</b>		
Credit Hrs.	<b>4</b>	Contact Hrs.	Theoretical	Practical	T
Teaching Language	English <input checked="" type="checkbox"/> Arabic <input type="checkbox"/>		45	40	85
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended				
Course Nature	<input checked="" type="checkbox"/> Compulsory <input type="checkbox"/> Elective				
Course Type	<input type="checkbox"/> University Requirement <input checked="" type="checkbox"/> College Requirement <input type="checkbox"/> Program Requirement				
Level	Year 5	Pre-Requisite(s)	All Year 3 Courses		

### Course Description

The Emergency Medicine Clerkship provides medical students with an in-depth exposure to Emergency Medicine as a specialty and career choice. They will interact with a wide variety of undifferentiated patients and problems, with a goal of improving the students' skill in acute care decision-making, a beneficial skill for all physicians. The majority of the educational curriculum, in addition to clinical bedside teaching, includes simulation exercises, small group case-based discussions/didactics and interactive seminars. During the rotation, students will participate in 42 hours of clinical encounters, attend eight interactive sessions, exercise at three simulation/clinical skills sessions, and complete end of rotation clinical assessment and oral examination.

### Topics

Resuscitation: Airway Management, Management of Cardiac Arrest, and Shock.  
 Cardiovascular Emergencies: Bradyarrhythmia & Tachyarrhythmia, Acute Coronary Syndrome, and Hypertensive Emergency .  
 Trauma: Initial ATLS Management, Intracranial Injuries, and Cervical Spine Fractures .  
 Toxicological Emergencies: Toxic Alcohols, Acetaminophen & Salicylates Toxicity .  
 Environmental Emergencies: Electrical Injuries, Heat Related Injuries and Animal Injuries  
 Electrolytes Disorders (DKA & Hyperkalemia), Sepsis and Septic Shock and Massive GI Bleeding  
 Thoracic Aortic Dissection, Acute Limb Ischemia, Acute Abdomen (Life-Threatening Conditions), and Burn & Smoke Inhalation  
 Procedural and skills sessions: Endotracheal Intubation, Cricothyrotomy, Tube Thoracostomy,

### Learning Outcomes

- Demonstrate basic science and clinical principles to the emergency medicine patient.
- Demonstrate the ability to express findings of a complete but directed history and physical examination in a clear and concise manner.
- Apply a hierarchy of acuity and likelihood to a differential diagnosis and patient care plan that accounts for "worst case scenario" and most likely etiologies for a patient's clinical presentation.
- Demonstrate an appropriate patient disposition plan.
- Illustrate a diagnostic and therapeutic plan for a patient with an acutely life or limb threatening condition
- Develop a differential diagnosis when evaluating an undifferentiated patient:
- Prioritize likelihood of diagnoses based on patient presentation and acuity.
- List the worst-case diagnoses.
- Create a diagnostic plan based on differential diagnoses.
- Develop a management plan for the patient with both an undifferentiated complaint and a specific disease process.
- Demonstrate effective communications skills with patients and other members of the ED clinical team.
- Demonstrate ethical, responsible , and empathic behavior with patients and ED clinical staff
- Patient focused, high quality care.
- Professionalism.

Needle Chest Decompression, Central Venous Access and E-FAST Exam .	<ul style="list-style-type: none"> <li>• Student Accountability and autonomy in learning .</li> <li>• Ethical and empathetic communication.</li> <li>• Collaboration and teamwork.</li> </ul>					
Assessment Tools	<input type="checkbox"/> Periodic Exams	%	<input type="checkbox"/> OSCE	30 %	<input type="checkbox"/> Final Exam	40%
	<input type="checkbox"/> Individual Assignmen ts	10%	<input type="checkbox"/> Continuous Assessment	10%	<input type="checkbox"/> Clinical Assessment	10%
Main Reference	<ul style="list-style-type: none"> <li>▪ <i>Tintinalli's Emergency Medicine: A Comprehensive Study Guide (7th Edition)</i> .</li> <li>▪ <i>Rosen's Emergency Medicine – Concepts and Clinical Practice (8th Edition)</i> .</li> <li>▪ <i>Roberts and Hedges Procedures in Emergency Medicine (6th Edition)</i></li> </ul>					
Supporting References						