

COURSE OUTCOME MATRIX

COURSE SYLLABUS

PART 2 of 3

Course Number and Title	EM 121 Pathophysiology for the EMS Provider
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Credit Hours	1
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Course Description	This course will focus on the significant issues of pathophysiology as related to the pre-hospital care provided by the paramedic. Understanding how the body functions under normal conditions increases awareness of how and why various symptoms appear enhancing assessment skills and treatment
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Prerequisite(s) and/or Corequisite(s)	
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Required Textbooks/References/Course Materials:

Nancy Caroline's Emergency Care in the Streets, Flipped Classroom	1st	AAOS	Jones & Bartlett Publishing	1284180638
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General Education Outcomes	
1	Utilize written and verbal language to discuss and comprehend information, incorporating a variety of technologies, such as text, data, and images (written language, verbal language, and information technology).
2	Identify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).
3	Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate) (quantitative literacy and fluency).
4	Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

Program/Department Outcomes	
1	To prepare competent entry-level Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and/or Emergency Medical Responder levels.

	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program/Department Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1	Explain the function of the cell, tissues, and organs	C-Understanding-2	1	1	1	1	1	1	1
2	Discuss how the body maintains homeostasis	C-Remembering-1	1	1	1	1	2	1	1
3	Explain the function of common ligands, including medications, hormones, neurotransmitters, and electrolytes.	C-Understanding-2	1	1	1	1	1	1	1
4	Explain the concepts of osmotic pressure and membrane permeability	C-Understanding-2	1	1	1	1	1	1	1
5	Explain the mechanisms by which fluid and electrolyte balance are maintained in the body	C-Understanding-2	1	1	1	1	1	1	1
6	Explain the physiologic consequences of imbalances in sodium, potassium, calcium, phosphate, and Magnesium	C-Understanding-2	1	1	1	1	1	1	1
7	Discuss cellular adaptation, cellular injury and cellular death.	C-Remembering-1	1	1	1	1	1	1	1
8	Describe homeostasis as a dynamic steady state	C-Analyzing-4	1	1	1	1	1	1	1
9	Discuss hypoperfusion, cardiogenic, hypovolemic, neurogenic, anaphylactic and septic shock.	C-Understanding-1	1	1	1	1	1	1	1

Bloom's Domain Legend

C = Cognitive
A = Affective
P = Psychomotor

General Education Outcome Legend

2 = Included and Measurable
1 = Introduced and/or Minimally Addressed and Not Measurable
0 = Not included

Approved: November 1, 2021