Technical and Vocational Programs

A 45 34 0 Emergency Medical Science - Associate in Applied Science

CONCENTRATION OVERVIEW

The Emergency Medical Science curriculum provides individuals with the knowledge, skills and attributes to provide advanced emergency medical care as a paramedic for critical and emergent patients who access the emergency medical system and prepares graduates to enter the workforce. Students will gain complex knowledge, competency, and experience while employing evidence-based practice under medical oversight and serve as a link from the scene into the healthcare system.

COA's Emergency Medical Services – Paramedic program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of



Educational Programs for the Emergency Medical Services Professions (CoAEMSP). Contact CAAHEP: Commission on Accreditation of Allied Health Education Programs (CAAHEP), 9355 – 113th St. N, #7709, Seminole, FL 33775, 727-210-2350. www.caahep.org

Graduates of this program may be eligible to take state and/or national certification examinations. Employment opportunities include providers of emergency medical services, fire departments, rescue agencies, hospital specialty areas, industry, educational and government agencies.

Student Learning Outcomes – Upon completion of the program, students will:

- 1. Apply the basic concepts of pathophysiology, development, and pharmacology to the assessment and management of a wide variety of emergency patients.
- 2. Demonstrate proficiency in administration of medications and safely accessing venous circulation.
- 3. Establish and/or maintain a patent airway, oxygenate, and ventilate any patient.
- 4. Demonstrate technical proficiency in all skills necessary to fulfill the role of entry-level paramedic in the state of North Carolina.
- 5. Demonstrate proficiency in the role of entry-level paramedic in the state of North Carolina.

Partnership: N/A

Some Health Sciences and Wellness Programs may have additional requirements related to required GPAs, grades, and other progression policies required for graduation. Please see program handbooks for more information.

*This program offers a <u>Career and College Promise pathway (CCP) C45340H.</u> Courses within the pathway are highlighted in yellow.

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First Year Fall Semester Course Number and Title	Pre-Requisites and Co-Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
ACA 111 (or ACA 122) College Student Success		1	0	0	1	1
ENG 111 Writing and Inquiry	Pre-Requisites: ENG 025	3	0	0	3	3
MAT 143 Quantitative Literacy	Pre-Requisites: ENG 025 and MAT 025	2	2	0	4	3
EMS 110 EMT	Pre-Requisites: Admission to EMS Program	6	6	3	15	9
TOTAL SEMESTER HOURS		12	8	3	23	16
First Year Spring Semester Course Number and Title	Pre-Requisites and Co-Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
BIO 163 Basic Anatomy and Physiology (Or BIO 168 and BIO 169 - recommended option for transfer to a 4 year institution)**	Pre-Requisites: ENG 025 and either BIO 090 or one unit of HS Biology	4	2	0	6	5
PSY 150 General Psychology	Pre-Requisites: ENG 025	3	0	0	3	3
EMS 120 Advanced EMT	Pre-Requisites: EMS 110 Co-Requisites: EMS 121	4	6	0	10	6
EMS 121 AEMT Clinical Practicum	Pre-Requisites: EMS 110 Co-Requisites: EMS 120	0	0	6	6	2
TOTAL SEMESTER HOURS		11	8	6	25	16
First Year Summer Semester Course Number and Title	Pre-Requisites and Co-Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
EMS 160 Cardiology I	Pre-Requisites: EMS 120 Co-Requisites: EMS 130, 210, 221	2	3	0	5	3
EMS 130 Pharmacology	Pre-Requisites: EMS 120 Co-Requisites: EMS 160, 210, 221	3	3	0	6	4
EMS 210 Adv. Patient Assessment	Pre-Requisites: EMS 110 or Admission to EMS Bridge Program Co-Requisites: EMS 130, 160, 221 or Admission to EMS Bridge Program	1	3	0	4	2
EMS 221 EMS Clinical Practicum II	Pre-Requisites: EMS 121 Co-Requisites: EMS 130, 160, 210	0	0	6	6	2
TOTAL SEMESTER HOURS		6	9	6	21	11

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Second Year Fall Semester Course Number and Title	Pre-Requisites and Co-Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
ENG 112 Writing/Research in the Disciplines	Pre-Requisites: ENG 111	3	0	0	3	3
EMS 220 Cardiology II	Pre-Requisites: EMS 160, 130, 210, 221 Co-Requisites: EMS 231, 250, 260	2	3	0	5	3
EMS 231 EMS Clinical Practicum	Pre-Requisites: EMS 221 Co-Requisites: EMS 220, 250, 260	0	0	9	9	3
EMS 250 Medical Emergencies	Pre-Requisites: EMS 160, 130, 210, 221 Co-Requisites: EMS 220, 231. 260	3	3	0	6	4
EMS 260 Trauma Emergencies	Pre-Requisites: EMS 160, 130, 210, 221 Co-Requisites: EMS 220, 231, 250	1	3	0	4	2
TOTAL SEMESTER HOURS		9	9	9	27	15
Second Year Spring Semester	Pre-Requisites and	Class	Lab	Clinical	Total Contact	Total Credit
Course Number and Title	Co-Requisites	Hours	Hours	Hours	Hours	Hours
Human/FA Elective	Varies	3	0	0	3	3
EMS 240 Patients with Special Challenges	Pre-Requisites: EMS 220, 231, 250, 260 Co-Requisites: EMS 241, 270, 285	1	2	0	3	2
EMS 241 EMS Clinical Practicum IV	Pre-Requisites: EMS 231 Co-Requisites: EMS 240, 270 & 285	0	0	12	12	4
	Co-Requisites: EMS 240, 270 &	3	3	0	6	4
IV	Co-Requisites: EMS 240, 270 & 285 Pre-Requisites: EMS 220, 231, 250, 260 Co-Requisites: EMS 240, 241 &		-			
IV EMS 270 Life Span Emergencies	Co-Requisites: EMS 240, 270 & 285 Pre-Requisites: EMS 220, 231, 250, 260 Co-Requisites: EMS 240, 241 & 285 Pre-Requisites: EMS 220, 231, 250, 260 Co-Requisites: EMS 240, 241 &	3	3	0	6	4

^{**}Four year institutions determine their acceptance of transfer courses ...students should check with the 4 year institutions they plan to attend to see if this option will be accepted.