

Emergency Medical Science

The Emergency Medical Science curriculum is designed to prepare graduates for careers as entry-level paramedics. The program can provide students with an associate degree, allowing them to advance their emergency medical services (EMS) careers.

The curriculum is divided into two paths: traditional and bridge

1. Traditional path: Students that have no EMS background.
2. Bridge path: Currently credentialed paramedics

While in the program, students acquire basic and advanced life support knowledge and skills in cutting-edge learning environments, including classroom and laboratory instruction. Students have unique hospital clinical opportunities at a regional level one trauma center. The field internship portion is completed at one of the nation's top EMS providers.

The core EMS curriculum focuses on EMS management, rescue operations management, and EMS education methods, giving graduates experience in all facets of EMS leadership.

Students who complete the program are eligible for North Carolina and National Paramedic certification examinations.

Employment opportunities include Emergency Medical Services (EMS) agencies, fire and rescue agencies, critical care transport services, special events, and government agencies.

For specific information about potential positions and wages in emergency medical science employment, visit the Central Piedmont Career Coach website.

Emergency Medical Science (A45340)*

Degree Awarded

The Associate of Applied Science Degree - Emergency Medical Science is awarded by the college upon completing this program.

Admissions

- A high school diploma or equivalent is required.
- Central Piedmont placement tests are required in English and mathematics. Developmental Studies for English and mathematics classes are available for students to build basic skills and knowledge.
- Consult with advisement counselor and attend an orientation session following placement testing.
- Many courses have prerequisites or co-requisites; check the Courses section for details.

Contact Information

The Emergency Medical Science Program is in the Public Service & Transportation Division of Central Piedmont. For more information, contact the Program Chair by phone at 704.330.2722, ext. 3274 or by email at emergency.medicalservices@cpcc.edu.

General Education Requirements

Required Course:

ENG 111	Writing and Inquiry	3.0
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Research English		
Take 3 credits:		3.0
ENG 112	Writing and Research in the Disciplines	
ENG 113	Literature-Based Research	
ENG 114	Professional Research & Reporting	
Communication		
Take 3 credits:		3.0
COM 110	Introduction to Communication	
COM 231	Public Speaking	
Humanities and Fine Arts		
Take 3 credits:		3.0
ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	
DRA 111	Theatre Appreciation	
HUM 120	Cultural Studies	
HUM 130	Myth in Human Culture	
MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 240	Introduction to Ethics	
REL 110	World Religions	
Behavioral/Social Sciences		
Take 3 credits:		3.0
PSY 150	General Psychology	
SOC 210	Introduction to Sociology	
Mathematics		
Take 3 credits:		3.0
MAT 143	Quantitative Literacy	
MAT 152	Statistical Methods I	
MAT 171	Precalculus Algebra	
Major Requirements		
ACA 122	College Transfer Success	1.0
EMS 110	EMT	9.0
MED 120	Survey of Medical Terminology	2.0
BIO 168 & BIO 169	Anatomy and Physiology I and Anatomy and Physiology II (Students may complete BIO 163 in lieu of BIO 168 and BIO 169)	5.0
Paramedic		
EMS 122	EMS Clinical Practicum I	1.0
EMS 130	Pharmacology	4.0
EMS 131	Advanced Airway Management	2.0
EMS 160	Cardiology I	3.0
EMS 220	Cardiology II	3.0
EMS 221	EMS Clinical Practicum II	2.0
EMS 231	EMS Clinical Practicum III	3.0
EMS 240	Patients With Special Challenges	2.0
EMS 241	EMS Clinical Practicum IV	4.0
EMS 250	Medical Emergencies	4.0
EMS 260	Trauma Emergencies	2.0
EMS 270	Life Span Emergencies	4.0
EMS 285	EMS Capstone	2.0

Select 4.0 credits from the following:	4.0
EMS 125 EMS Instructor Methodology	
EMS 150 Emergency Vehicles and EMS Communication	
EMS 235 EMS Management	
EMS 140 Rescue Scene Management	
EMS 280 EMS Bridging Course	
Total Credits	75

No diplomas are offered in Emergency Medical Science.

Emergency Medical Science Certificates (C45340)

Emergency Medical Science Certificate Specialization in Emergency Medical Science (C45340-C1)

Students must qualify for ENG 111 by standardized testing (pre-ACT, ACT, SAT, RISE Placement Test) within 12 months of registering for EMS 110. Students must also be 17 years of age prior to the last day of class of EMS 110. Students who successfully complete this certificate program will have the opportunity to take the North Carolina and National Registry Emergency Medical Technician certification exam. They will then be eligible to be employed as an EMT and will have met the prerequisites to enter into Associate in Applied Science degree in Emergency Medical Science (A45340).

Major Requirements

EMS 110	EMT	9.0
BIO 168	Anatomy and Physiology I	4.0
BIO 169	Anatomy and Physiology II	4.0
Total Credits		17

Emergency Medical Science Suggested Course Sequence

The following is the suggested plan for when to take each course to complete the Associate in Applied Science degree, based on the program requirements of the 2024-2025 catalog. This is only a recommendation — you may take courses in another order upon consultation with your advisor. This plan is based on you starting with college-level math and English courses, starting your program in the fall, and attending full-time. You can also follow this sequence if you attend part-time. Speak with your academic advisor about the plan and any questions. This program might also offer diplomas or certificates; visit the catalog or contact the program for details. Visit the Academic Advising page for instructions on locating your assigned advisor: <https://www.cpcc.edu/academics/academic-advising>

Term I		Credits
EMS 110	EMT	9.0
COM 110	Introduction to Communication	3.0
ENG 111	Writing and Inquiry	3.0
BIO 168	Anatomy and Physiology I	4.0
ACA 122	College Transfer Success	1.0
Credits		20
Term II		
BIO 169	Anatomy and Physiology II	4.0
ENG 114	Professional Research & Reporting	3.0

MAT 143	Quantitative Literacy	3.0
PSY 150	General Psychology	3.0
MED 120	Survey of Medical Terminology	2.0
You may have completed program certificate C45340-C1. Confirm eligibility with your academic advisor.		
Credits		15
Term III		
Humanities/Fine Arts		3.0
EMS 140	Rescue Scene Management	2.0
Credits		5
Term IV		
EMS 130	Pharmacology	4.0
EMS 131	Advanced Airway Management	2.0
EMS 160	Cardiology I	3.0
EMS 122	EMS Clinical Practicum I	1.0
EMS 235	EMS Management	2.0
Credits		12
Term V		
EMS 221	EMS Clinical Practicum II	2.0
EMS 250	Medical Emergencies	4.0
EMS 220	Cardiology II	3.0
EMS 231AB	EMS Clinical Practicum III	1.5
Credits		10.5
Term VI		
EMS 231BB	EMS Clinical Practicum III	1.5
EMS 260	Trauma Emergencies	2.0
Credits		3.5
Term VII		
EMS 240	Patients With Special Challenges	2.0
EMS 270	Life Span Emergencies	4.0
EMS 241	EMS Clinical Practicum IV	4.0
EMS 285	EMS Capstone	2.0
Credits		12
Total Credits		78