

**EMERGENCY MEDICAL SCIENCE**  
**A.A.S. Program (A45340)**

The Emergency Medical Science Curriculum 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).

The Emergency Medical Science curriculum is designed to prepare graduates to enter the workforce as paramedics. Additionally, the program can provide an Associate Degree for individuals desiring an opportunity for career enhancement. The course of study provides the student an opportunity to acquire basic and advanced life support knowledge and skills by utilizing classroom instruction, practical laboratory sessions, hospital clinical experience, and field internships with emergency medical service agencies. Students progressing through the program may be eligible to apply for both state and national certification exams. Employment opportunities include ambulance services, fire and rescue agencies, air medical services, specialty areas of hospitals, industry, educational institutions, and government agencies.

**GENERAL EDUCATION COURSES:**

**SHC**

English/Communications:		
ENG 111	Expository Writing .....	3
ENG 114	Prof Research & Reporting.....	3
	OR	
ENG 112	Argument-Based Research .....	3
	OR	
ENG 113	Literature-Based Research.....	3
Humanities/Fine Arts:		
Elective	.....	3
Natural Sciences/Mathematics:		
BIO 168	Anatomy and Physiology I.....	4
BIO 169	Anatomy and Physiology II.....	4
Social/Behavioral Sciences:		
PSY 150	General Psychology.....	3

**MAJOR COURSES:**

CIS 110	Introduction to Computers.....	3
EMS 110	EMT-Basic.....	7
EMS 120	Intermediate Interventions.....	3
EMS 121	EMS Clinical Practicum I.....	2
EMS 130	Pharmacology I for EMS.....	2
EMS 131	Adv Airway Management.....	2
EMS 140	Rescue Scene Management.....	2
EMS 150	Emerg Vehicles & EMS Comm.....	2
EMS 210	Adv Patient Assessment.....	2
EMS 220	Cardiology.....	4
EMS 221	EMS Clinical Practicum II.....	3
EMS 231	EMS Clinical Pract III.....	3
EMS 235	EMS Management.....	2
EMS 240	Special Needs Patients.....	2
EMS 241	EMS Clinical Practicum IV.....	3
EMS 250	Advanced Medical Emergencies.....	3
EMS 260	Advanced Trauma Emergencies.....	2
EMS 270	Life Span Emergencies.....	3
EMS 285	EMS Capstone.....	2
<b>Total Credit Hours Required .....</b>		<b>72</b>

**DEVELOPMENTAL COURSE REQUIREMENTS\***

CTS 080	Computing Fundamentals.....	3
ENG 090	Composition Strategies.....	3
MAT DMA 010, DMA 020, DMA 030, DMA 040	.....	4
RED 090	Improved College Reading.....	4

\*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

**Emergency Medical Science**  
**Suggested Program Sequence Day**

		Class	Lab	Clin/WkExp	Credit
<b>Fall - 1st year</b>					
EMS 110	EMT Basic	5	6	0	7
EMS 150	Emergency Vehicles & EMS Comm	1	3	0	2
BIO 169	Anatomy and Physiology II	3	3	0	4
<b>Total</b>		<b>9</b>	<b>12</b>	<b>0</b>	<b>13</b>
<b>Spring - 1st year</b>					
EMS 120	Intermediate Interventions	2	3	0	3
EMS 121	Clinical Practicum I	0	0	6	2
EMS 130	Pharmacology I for EMS	1	3	0	2
EMS 131	Adv Airway Management	1	2	0	2
CIS 110	Introduction to Computers	2	2	0	3
<b>Total</b>		<b>6</b>	<b>10</b>	<b>6</b>	<b>12</b>
<b>Summer - 1st year</b>					
EMS 210	Adv Patient Assessment	1	3	0	2
EMS 221	EMS Clinical Practicum II	0	0	9	3
EMS 250	Advanced Medical Emergencies	2	3	0	3
EMS 260	Advanced Trauma Emergencies	1	3	0	2
PSY 150	General Psychology	3	0	0	3
<b>Total</b>		<b>7</b>	<b>9</b>	<b>9</b>	<b>13</b>
<b>Fall - 2nd year</b>					
EMS 140	Rescue Scene Management	1	3	0	2
EMS 220	Cardiology	2	6	0	4
EMS 231	EMS Clinical Pract III	0	0	9	3
EMS 270	Life Span Emergencies	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
<b>Total</b>		<b>8</b>	<b>11</b>	<b>9</b>	<b>15</b>
<b>Spring - 2nd year</b>					
EMS 235	EMS Management	2	0	0	2
EMS 240	Special Needs Patients	1	2	0	2
EMS 241	EMS Clinical Practicum IV	0	0	9	3
EMS 285	EMS Capstone	1	3	0	2
ENG 114	Prof Research & Reporting (Preferred)	3	0	0	3
	OR ENG 112 Argument-Based Research	3	0	0	3
	OR ENG 113 Literature-Based Research	3	0	0	3
	Humanities/Fine Arts Elective	3	0	0	3
<b>Total</b>		<b>10</b>	<b>5</b>	<b>9</b>	<b>15</b>
<b>Grand Total</b>		<b>40</b>	<b>47</b>	<b>33</b>	<b>68</b>

**Note:** Students must complete BIO 168, Anatomy & Physiology I, 4 credit hours, prior to admission into the program.

**EMERGENCY MEDICAL SCIENCE CURRICULUM**  
**Certificate Paramedic Advancement Program**

This special track was developed to facilitate a North Carolina certified paramedic in returning to school to obtain an Associate in Applied Science Degree. The length of this course varies depending on the individual's experience and prior education. In order to enable the most rapid completion of the CPA Program the following prerequisites and/or admission requirements will be used:

1. Meet CVCC's institutional requirements for admissions as an EMS student.
2. Two years of full or four years of part-time employment as a field paramedic in an Advanced Life Support system.
3. Valid North Carolina paramedic certification.
4. Two letters of reference will be required: one from an immediate supervisor and one from the service's Medical Director attesting to the individual's competence in basic and advanced life support skills.
5. Successful completion of the (EVOC/ADM) Emergency Vehicle Operation Course/ Advanced Driving Maneuvers.
6. Once the criterion above has been met, the student will then be offered advance placement exams in the following courses so as to facilitate their movement through the program. To successfully advance place a course all skills required for the course must be successfully completed and the written exam must be passed with a grade of 80% or better.
  - A. EMS 110 EMT-Basic
  - B. EMS 120 Intermediate Interventions
  - C. EMS 130 Pharmacology I for EMS
  - D. EMS 131 Advanced Airway Management
  - E. EMS 210 Advanced Patient Assessment
  - F. EMS 250 Advanced Medical Emergencies
  - G. EMS 260 Advanced Trauma Emergencies
  - H. EMS 220 Cardiology
  - I. EMS 270 Life Span Emergencies
  - J. EMS 240 Special Needs Patients

The student may transfer and/or advance place up to sixty-five percent of the required course hours. This track will be highly individualized depending on any prior college credits by the student and their success with advanced placement scores.