



May 16, 2019

Maryland Higher Education Commission  
Dr. James D. Fielder, Jr.  
Secretary of Higher Education  
6 North Liberty Street  
Baltimore, MD 21201

Dear Secretary Fielder:

Garrett College is proposing an Associate of Applied Science degree in Paramedic Studies that will be implemented within existing institutional library resources, physical facilities, infrastructure and instructional equipment. On behalf of the college, I affirm the college will ensure there are adequate library resources, physical facilities, infrastructure and instructional equipment to meet the program's needs.

Please do not hesitate to contact me at (301) 387-3043 or at [qing.yuan@garrettcollege.edu](mailto:qing.yuan@garrettcollege.edu) if you have any questions regarding Garrett College's commitment to providing the resources necessary to launch and maintain this proposed program.

Sincerely,

Qing Yuan, Ed.D.

Dean of Academic Affairs/Chief Academic Officer



**Cover Sheet for In-State Institutions  
New Program or Substantial Modification to Existing Program**

Institution Submitting Proposal	Garrett College
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*Each action below requires a separate proposal and cover sheet.*

- |   |   |
|---|---|
| <input checked="" type="radio"/> New Academic Program | <input type="radio"/> Substantial Change to a Degree Program            |
| <input type="radio"/> New Area of Concentration       | <input type="radio"/> Substantial Change to an Area of Concentration    |
| <input type="radio"/> New Degree Level Approval       | <input type="radio"/> Substantial Change to a Certificate Program       |
| <input type="radio"/> New Stand-Alone Certificate     | <input type="radio"/> Cooperative Degree Program                        |
| <input type="radio"/> Off Campus Program              | <input type="radio"/> Offer Program at Regional Higher Education Center |

Payment Submitted: <input checked="" type="radio"/> Yes	Payment Type: <input type="radio"/> R*STARS	Payment Amount: \$850.00	Date Submitted: May 1, 2019
<input type="radio"/> No	<input checked="" type="radio"/> Check		

Department Proposing Program	Allied Health/Medical Services		
Degree Level and Degree Type	Associates of Applied Science		
Title of Proposed Program	Paramedic Studies		
Total Number of Credits	60		
Suggested Codes	HEGIS: 529901	CIP: 510904	
Program Modality	<input checked="" type="radio"/> On-campus	<input type="radio"/> Distance Education (fully online)	
Program Resources	<input checked="" type="radio"/> Using Existing Resources	<input type="radio"/> Requiring New Resources	
Projected Implementation Date	<input checked="" type="radio"/> Fall	<input type="radio"/> Spring	<input type="radio"/> Summer Year: 2019
Provide Link to Most Recent Academic Catalog	URL: <a href="https://www.garrettcollege.edu/images/a">https://www.garrettcollege.edu/images/a</a>		
Preferred Contact for this Proposal	Name:	Qing Yuan	
	Title:	Dean of Academic Affairs/Chief Academic Officer	
	Phone:	301.387.3043	
	Email:	qing.yuan@garrettcollege.edu	
President/Chief Executive	Type Name:	Richard Midcap	
	Signature:		Date: 05/16/2019
	Date of Approval/Endorsement by Governing Board:	4/16/19	

Revised 1/2019

## **A. Centrality to Institutional Mission Statement and Planning Priorities**

The mission statement of Garrett College includes the following commitments:

1. To provide accessible, quality education in a supportive environment to a diverse student population through associate degrees and certificate programs.
2. To develop engaging, innovative and sustainable curricula, programs and initiatives that are responsive to changing and emerging employment opportunities for citizens of Garrett County and the surrounding region.

The addition of a Paramedic Studies A.A.S. degree program supports these commitments, and also aligns with the College's strategic objective to "Provide credit and noncredit programs and other learning opportunities which align with local and regional labor market needs and provide a sustainable competitive advantage" (Garrett College FY2017-FY2020 Strategic Plan).

The Paramedic Studies A.A.S. degree is designed for students who plan to enter the workforce immediately upon graduation. The availability of this program will offer advantages for students including: a career-ladder opportunity for students who begin their coursework in Continuing Education and Workforce Development and decide to continue their studies; a reduction of tuition costs for Garrett County high school graduates to take advantage of the Garrett County Scholarship Program; and increased employment opportunities for graduates in Garrett County, regionally and nationally.

## **B. Critical and Compelling Regional or State-wide Need**

Garrett College's proposed A.A.S. program in Paramedic aligns with all three goals outlined in the 2017-2021 Maryland State Plan for Postsecondary Education. With respect to the Access Goal, this program specifically addresses **Strategy 3** (*Expand efforts to cultivate student readiness, financial literacy and financial aid for individual outside traditional K-12 channels*). It is anticipated that the primary audience for this program will be non-traditional students already employed in the EMS field who are seeking an associate degree for career advancement. The articulation of 30 EMS credits for those students who have obtained their National Registered Paramedic (NRP) certification provides nontraditional working adults in this field an opportunity to reduce the expense and time required to obtain an associate's degree based on an accepted national standard, thereby offering these individuals an alternative pathway to access postsecondary education. This alternative approach supports the Success Goal and **Strategy 5** (*Ensure that statutes, regulations, policies and practices that support students and encourage their success are designed to serve the respective needs of both traditional and non-traditional students*) in particular. The program's focus on awarding credit for nationally and state recognized workforce certifications ties directly to the Strategy 5 recommendation on granting of credit for prior learning. The proposed A.A.S. program in Paramedic also supports the Innovation Goal in relation to both **Strategy 8** (*Develop new partnerships between colleges and businesses to support workforce development and improve workforce readiness*) and **Strategy 11** (*Encourage a culture of risk-taking and experimentation*). The existence of this Paramedic degree program will further strengthen partnerships already in place within the Garrett and Allegany county governments, who fund a portion of the current non-credit EMS program costs due to local shortages of qualified emergency health workers in order to produce the quantity and quality of trained emergency health workers. With regard to risk-taking and experimentation, the basis of the program design is the first attempt by Garrett College to accept a

nationally recognized certification (for which the College offers preparation through a non-credit instructional program) as satisfying the technical content portion of an A.A.S. degree program, all with the goal of saving students time and money toward degree completion.

Several factors support the local and regional, as well as statewide, need for a Paramedic Studies A.A.S. degree program at Garrett College:

1. **Benefit to Garrett County Residents** – Garrett College’s proposed Paramedic Studies A.A.S. degree program will have a direct advantage over other A.A.S. paramedic studies programs in Maryland due to its geographic proximity to West Virginia and southwestern Pennsylvania. This degree will provide significant opportunities for employment after graduation. Pre-hospital care in the region has transitioned over the last decade from a predominantly volunteer opportunity to a paid career. The existence of the Garrett County Scholarship Program removes financial barriers and provides a strong incentive for most Garrett County high school graduates to pursue higher education at Garrett College. This county-funded scholarship program provides up to 64 credits of free tuition for Garrett County high school graduates who attend Garrett College. Garrett County life is defined as rural with the characteristics of a rural population. Over 86% of the county’s high school seniors graduate each year, and the availability of the Paramedic program will expand educational opportunities and choices for Garrett County students. In addition, Garrett County has an aging population; which translates to an increase in healthcare needs, including pre-hospital care.
2. **Benefit to Students in the Region** –Due to Garrett College’s geographic location (bordering both West Virginia and Pennsylvania), the proposed Paramedic Studies A.A.S. program will not only benefit students in Garrett County, but students coming from surrounding counties in West Virginia and Pennsylvania as well. Additionally, the Paramedic Studies AAS program is designed to serve students from Allegany County in Maryland. The current cohort of the paramedic certificate program has a significant number of students from Alleghany County; thus the proposed Paramedic AAS program will be impactful to students in the two westernmost counties of Maryland.
3. **Benefit to Other Maryland Students** – Garrett College is one of only two community colleges in Maryland that has residence halls. At present, 38% of the College’s student population is made up of out-of-county and out-of-state students, most coming from the Baltimore-Washington, D.C. metro area. Most of these students will either return home or transfer to a four-year institution upon graduation. The availability of a Paramedic Studies degree program at Garrett will be attractive to many of these students given that the demand for Paramedics is projected to increase by 17.67% between 2014-2024.

### **C. Evidence and Documentation of Market Supply & Demand in the Region and State**

- a. **Current Job Openings** – A search on the Maryland Workforce Exchange (MWE), managed by the Maryland Department of Labor, Licensing and Regulation, yielded 371 job openings for certified Paramedics. From a regional perspective, 33 postings appeared during January 2018-February 2018. The service region for this data includes western Maryland, southwestern Pennsylvania, and eastern West Virginia.

- b. **Future Job Growth** – Statewide, the *Maryland Occupation Projections, 2014-2024* indicates over a 17.67% growth in the Paramedic field. Nationally, the *Bureau of Labor Statistics’ Occupational Outlook Handbook, 2016-2026* indicates that Paramedics and Emergency Technicians are found in all types of organizations, but most work for local governments, hospitals, and other pre-hospital settings.
- c. **Paramedic Studies A.A.S.** – Students who obtain a Paramedic Studies A.A.S. degree and pass National Paramedic Certification (NPC) will be prepared for employment at the time of graduation; transfer is not intended with this program. The program curriculum prepares students for the National Registered Paramedic exam for NPC.
- d. **Sources and Summary** –Table 1 summarizes the Maryland job growth information, discussed in the sections above, and obtained from the Maryland Department of Labor, Licensing, and Regulation, *Maryland Occupational Projections, 2014-2024*.

**Table 1. Maryland Occupational Projections 2014-2024, Emergency Medical Technicians and Paramedics**

Maryland Occupational Projections 2014 – 2024 Emergency Medical Technicians and Paramedics			
Occupational Title	2014	2024	Percent Change
Emergency Medical Technicians and Paramedics	5020	5907	17.67%

Table 2 summarizes the National job growth information, discussed in the sections above, and obtained from the Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook*.

**Table 2. National Job Growth Forecast (Emergency Medical Technicians and Paramedics)**

National Job Growth Forecast (Emergency Medical Technicians and Paramedics)		
Occupational Title	Job Growth Forecast	Expected Growth Rate Thru 2026
Emergency Medical Technicians and Paramedics	15%	Much faster than average

**D. Reasonableness of Program Duplication**

Similar Paramedic Certificate and associate’s degree programs exist in eight other Maryland community colleges. Geographically, the closest is Hagerstown Community College, which is more than 100 miles away and approximately a two-hour drive from Garrett College. This important skills-based program at Garrett College is unique to the area in that it is the only nationally accredited program in the two westernmost counties of Garrett and Allegany, as well as the surrounding counties in Pennsylvania (Somerset & Fayette) and West Virginia (Preston). Currently, Garrett College’s paramedic training is the only accredited program (Commission on Accreditation of Allied Health Education Programs (CAAHEP) for the Emergency Medical Services Professions) of its kind offered in this region.

**E. Relevance to High Demand-Programs at Historically Black Institutions (HBIs)**

No impact on HBIs is anticipated from this new program.

## **F. Relevance to the Identity of Historically Black Institutions (HBIs)**

No impact on HBIs is anticipated from this new program.

## **G. Curriculum Design**

The Paramedic Studies A.A.S. degree curriculum is designed to provide theory along with practical, hands-on instruction, which will enable students to develop the knowledge and skills required to enter the workforce in the emergency medical profession as certified paramedics through the National Registry of Emergency Medical Technicians with National Registered Paramedic certification. This program operates as a cohort, with admission occurring during even years. Admission criteria include:

- Be at least eighteen (18) years of age.
- Be a high school graduate (GED certificate accepted).
- Be currently certified as an EMT.\*
- Be a member in good standing with a company providing advanced life support service or have applied for membership before the first class.
- Take an entrance exam to be administered by the training program provider. Math and reading skills along with EMT knowledge will be assessed to determine if students are prepared to complete the course of study.
- Be in good health and submit proof of physical exam. Accepted applicants must also submit proof of all required vaccinations/immunizations prior to starting class.
- Provide two letters of reference: one from candidate's sponsoring EMS department and one personal.
- Attend an interview with the Program Medical Director, Program Director, and the Program Coordinator. This committee will have the final approval for admission to the program. Final approval will be based collectively on results of testing, satisfying requirements and the decision of the committee's evaluation of the candidate.

\*Candidates who are not Maryland EMTs and/or not Maryland affiliated should contact the EMS Training Program Coordinator to determine entrance requirements.

### **a. Paramedic Studies Associate in Applied Science degree (60 credits) Program Objectives**

- To provide quality educational programs to the emergency medical services community including initial licensure and certification.
- To improve, through our educational programs, the quality of emergency medical care provided to patients in need.
- To strengthen learning, teaching, and institutional services through a program of comprehensive assessment.
- To better serve and advantage a rural community with limited capital resources and to supplement emergency medical services.
- To provide skilled well-trained advanced life support providers to our local community. Students enrolled in this program are taught to work in the field as an extension of the emergency room. Students successfully completing the training will be qualified in advanced emergency care through a competency-based educational program.

**b. Learning Outcomes – Upon successful completion of this program students will be able to:**

1. Describe the role of the Paramedic in the health care system.
2. Demonstrate the professional attributes expected of the Paramedic.
3. Perform the roles and responsibilities of a Paramedic with regard to personal safety and wellness, as well as the safety of others.
4. Perform the duties of a Paramedic with regard for medical, legal, and ethical issues, including functioning under medical direction and within the scope of practice.
5. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients.
6. Identify the need for and perform life-saving interventions to manage a patient's airway, breathing, and circulation.
7. Assess and manage patients of all ages with a variety of complaints, medical conditions and traumatic injuries.
8. Apply principles of emergency medical services operations, including considerations in ambulance and air medical transportation, multiple casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.

**c. Requirements: Paramedic Studies – Associate of Applied Science Degree (60 credits)**

**INSTITUTIONAL REQUIREMENT (1 credit)**

FYE 101 First Year Experience (1)

**GER REQUIRED CREDITS (22 credits)**

English Composition

ENG 101 College Comp I (3) or

ENG 103 Technical Writing (3)

Arts & Humanities

SPC 101 Intro to Communication (3)

GER Arts & Humanities Course (3)

Social & Behavioral Sciences

GER Social & Behavioral Science (3)

Science

GER Science Lab Course (4)

Mathematics

MAT 105 College Algebra

or MAT 210 Introductory Statistics (3)

Interdisciplinary/Emerging Issues

CIS 105 Introduction to Computers (3)

**MAJOR COURSES (30 credits)**

EMS 120 Anat & Phys for EMS Providers (3)

EMS 130 EMS Preparatory (1.5)

EMS 131 Paramedic Airway I (.5)

EMS 132 Paramedic Patient Assessment (.5)

EMS 133 Paramedic Medical (4)

EMS 134 Paramedic Trauma (2)

EMS 135 Paramedic Ops & Spec Cons (1)

EMS 150 Paramedic Lab I (1)

EMS 151 Paramedic Lab II (1.5)

EMS 170 Paramedic Clinical (.5)

EMS 171 Paramedic Clinical II (2)

EMS 230 Paramedic Preparatory (1)

EMS 231 Paramedic Airway II (1)

EMS 233 Paramedic Trauma II (.5)

EMS 234 Paramedic Medical II (1.5)

EMS 235 Paramedic Spec Considerations (1.5)

EMS 250 Paramedic Lab III (1)

EMS 251 Paramedic Lab IV (1.5)

EMS 270 Paramedic Clinical III (1.5)

EMS 271 Paramedic Clinical IV (3)

**ELECTIVES (7 credits)**

Choose courses after consultation with advisor.

**TOTAL CREDIT HOURS REQUIRED: 60**

**b. Example Sequence**

**FALL**

English GER ..... 3

Math GER..... 3

FYE 101 First Year Experience..... 1

EMS 120 Anat & Phys for EMS Providers..... 3

EMS 130 EMS Preparatory.....1.5

EMS 131 Paramedic Airway I ..... 0.50

EMS 132 Paramedic Patient Assessment..... 0.50

EMS 150 Paramedic Lab I..... 1

EMS 170 Paramedic Clinical I..... 0.50

TOTAL ..... 14

**SPRING**

CIS 105 Intro to Computers..... 3

GER Social & Behavioral Science..... 3

EMS 133 Paramedic Medical ..... 4

EMS 134 Paramedic Trauma..... 2

EMS 135 Paramedic Operations & Spec Cons... 1

EMS 151 Paramedic Lab II..... 1.5

EMS 171 Paramedic Clinical II..... 2

TOTAL ..... 16.5

**FALL**

GER Science Lab..... 4

GER Arts & Humanities..... 3

SPC 101 Intro to Communication ..... 3

EMS 230 Paramedic Preparatory..... 1

EMS 231 Paramedic Airway II..... 1

EMS 233 Paramedic Trauma II..... 0.50

EMS 250 Paramedic Lab III..... 1

EMS 270 Paramedic Clinical III..... 1.5

TOTAL ..... 15

**SPRING**

EMS234 Paramedic Medical II ..... 1.5

EMS235 Paramedic Spec Considerations..... 1.5

EMS251 Paramedic Lab IV..... 1.5

EMS271 Paramedic Clinical IV..... 3

Elective..... 7

TOTAL ..... 14.5



#### **d. Course Descriptions**

##### **EMS 120-Anatomy and Physiology for EMS Providers (3 credits)**

This course is designed to provide students with a basic overview of the anatomy and the physiological functioning of the human body. Cells, tissues, organs, and organ systems are discussed in basic terms, in a fast-paced overview format. This course fulfills the anatomy and physiology pre-requisite for acceptance into Garrett College's paramedic training program. For individuals who have previously completed college level anatomy and physiology, it serves as a good refresher and provides a foundation upon which additional knowledge can be added.

##### **EMS 130-EMS Preparatory (1.5 credits)**

This course provides base knowledge necessary for the paramedic student to understand as they begin the paramedic program. Topics include the roles and responsibilities of the paramedic, well-being of the paramedic, illness and injury prevention, ethics, medical and legal issues, general principles of pathophysiology, pharmacology, medic math, venous access and medical administration, therapeutic communications and life-span development.

##### **EMS 131-Paramedic Airway I (0.5 credit)**

Airway management is one of the most important skills performed by a paramedic. This course first reviews the A&P of a patient's airway and then reviews skills first learned as an Emergency Medical Technician (EMT). The student is taught paramedic level skills and learns to secure and manage a patient's airway through advanced methods.

##### **EMS 132-Paramedic Patient Assessment (0.5 credit)**

Understanding how to assess a patient properly will aid the student in providing the correct treatment. This course reviews basic information given to the student while in EMT class, and then builds on that information and presents paramedic level patient assessment knowledge. It also teaches how to properly document and relay this information to the hospital.

##### **EMS 133-Paramedic Medical I (4 credits)**

When treating a patient, a paramedic must be able to identify and give the proper treatment. This course covers medical topics such as cardiology, pulmonary, neurology, endocrinology, allergies and anaphylaxis, renal and urology, gastroenterology, toxicology, hematology, environmental conditions, behavioral and psychiatric disorders, infectious and communicable diseases, and obstetrics and gynecology.

##### **EMS 134-Paramedic Trauma I (2 credits)**

When treating a patient, a paramedic must be able to identify and give the proper treatment to a trauma patient. Areas covered include trauma systems and mechanism of injury, hemorrhage and shock, soft tissue trauma, burns, head and facial trauma, spinal trauma, thoracic trauma, abdominal trauma, and musculoskeletal trauma.

##### **EMS 135-Paramedic Operations and Special Considerations (1 credit)**

This course presents the student with information and techniques on how to handle special populations and considerations such as neonatology, pediatrics, geriatrics, patients with special challenges, acute interventions for the chronic patient, and abused and neglected patients. It also covers EMS operations such as ambulance operations medical incident command, rescue awareness and operations, hazardous materials incidents, and crime scene awareness.

**EMS 150-Paramedic Lab I (1 credit)**

This course provides the lab portion of the first semester of the two-year paramedic program. It includes all the skills taught in the first semester and is conducted in the lab setting for students to master these skills. These skills are intravenous access set-up, intravenous initiation-peripheral-peripheral, intramuscular injection, subcutaneous injection, intravenous medication push, orotracheal intubation, chest decompression, cricothyrotomy, direct laryngoscopy for airway obstruction, combi-tube, King airway, medication administration, and patient assessment.

**EMS 151-Paramedic Lab II (1.5 credits)**

This course provides the lab portion of the second semester of the two-year paramedic program. It includes all the skills taught in the second semester and is in the lab setting for students to master these skills. These are cardiac monitoring (single and multi-lead), cardioversion, defibrillations, transcutaneous pacing, BiPAP/CPAP, EtCO<sub>2</sub>, NG, and OG insertion, suction, medication administration (aerosolized, buccal, ETT, intranasal, rectal, topical, oral, sublingual), accessing indwelling catheters, intravenous maintenance, spinal immobilization, hemorrhage control, and intraosseous initiation.

**EMS 170-Paramedic Clinical I (0.5 credit)**

This course includes 24 hours of clinical time in the emergency departments of the local area hospitals. It also includes 12 hours in the operating room and requires a minimum of two successful intubations. This clinical course allows the students to start to interact with patients in the emergency environment and perform skills learned while being monitored by an approved preceptor.

**EMS 171-Paramedic Clinical II (2 credits)**

This course includes 70 hours of clinical time at the local area hospitals and 75 hours of field experience with the region's Advanced Life Support (ALS) Emergency Medical Services (EMS) companies. Areas of clinical experience include emergency department, operating room, cath lab, behavior and psychiatry, labor and delivery, and field time. This clinical course allows students to continue to develop skills and to interact with patients in the emergency environment. The student will perform skills learned while being monitored by an approved preceptor.

**EMS 230-Paramedic Preparatory (1 credit)**

This is the first course of the second year. It covers in-depth topics such as medical and legal issues, pharmacology, pathophysiology, medication administration, and medic math. Since the student has already received basic knowledge during the first year, this course builds on that information and prepares the student to sit for both national and state paramedic certification.

**EMS 231-Paramedic Airway II (1 credit)**

Airway management is one of the most important skills performed by a paramedic. This second-year course builds on and expands the information presented in EMS 131 Paramedic Airway I. This course includes more advanced care and difficult airway management techniques.

**EMS 233-Paramedic Trauma II (0.5 credit)**

When treating a patient, a paramedic must be able to identify and give the proper treatment to a trauma patient. Areas covered include trauma systems and mechanism of injury, hemorrhage and shock, soft tissue trauma, burns, head and facial trauma, spinal trauma, thoracic trauma, abdominal trauma, and musculoskeletal trauma. This second-year course provides more in-depth study and builds on information learned in EMS 134 Paramedic Trauma I.

**EMS 234-Paramedic Medical II (1.5 credits)**

When treating a patient, a paramedic must be able to identify and give proper treatment. This course covers medical topics such as cardiology, pulmonary, neurology, endocrinology, allergies and anaphylaxis, renal and urology, gastroenterology, toxicology, hematology, environmental conditions, behavioral and psychiatric disorders, infectious and communicable diseases, and obstetrics and gynecology. This second-year course provides more in-depth knowledge building skills from EMS 133.

**EMS 235-Paramedic Special Considerations (1.5 credits)**

This course teaches the student how to handle special considerations such as neonatology, pediatrics, geriatrics, patients with special challenges, acute interventions for the chronic patient, and abused and neglected patients. This course builds on EMS 135 and goes more in-depth to prepare the student for national and state certification. This course also includes a research component requiring the student to research a relevant topic and present findings to the class.

**EMS 250-Paramedic Lab III (1 credit)**

This course offers the lab portion of the third semester of the two-year paramedic program. It includes all the skills taught and is in the lab setting for students to master these skills. These skills include intravenous access set-up, intravenous initiation-peripheral, intramuscular injection, subcutaneous injection, intravenous medication push, orotracheal intubation, nasotracheal intubation, chest decompression, cricothyrotomy, direct and patient assessment. This course also utilizes scenario-based simulation labs which require the student to employ critical thinking skills as well as to demonstrate the ability to lead and EMS team.

**EMS 251-Paramedic Lab IV (1.5 credits)**

This course offers the lab portion of the fourth semester of the two-year paramedic program. It includes all the skills taught and is in the lab setting for students to master these skills. These are cardiac monitoring (single and multi-lead), cardioversion, defibrillations, transcutaneous pacing, BiPAP/CPAP, EtCO<sub>2</sub>, NG, and OG insertion, suction, medication administration (aerosolized, buccal, ETT, intranasal, rectal, topical, oral, sublingual), accessing indwelling catheters, intravenous maintenance, spinal immobilization, hemorrhage control, intraosseous initiation, and chest tube placement and monitoring. AT the end of this course students will visit the State Anatomy Board to perform skills learned in a cadaver lab.

**EMS 270-Paramedic Clinical III (1.5 credits)**

This course includes 36 hours of clinical time at the local area hospitals and 50 hours of field experience with the region's ALS EMS companies. Areas of clinical experience include emergency department, operating room, and field time. This clinical course allows the student to continue to develop skills and to interact with patients in the emergency environment. The student will perform basic and advanced skills while being monitored by an approved preceptor. Additionally, the student will perform and be evaluated as an EMS team leader.

**EMS 271-Paramedic Clinical IV (3 credits)**

This course includes 110 hours of clinical time at the local area hospitals and 100 hours of field experience with the region's ALS EMS companies. Areas of clinical experience include emergency department, operating room, ICU, CVU, respiratory, pediatric, EMS field, and miscellaneous areas (flight medic, morgue, etc.). This clinical course allows the student to continue to develop skills and to interact with patients in the emergency environment. The student will perform basic and advanced skills while being monitored by an approved preceptor. Additionally the student will perform and be evaluated as an EMS team leader.

## H. Adequacy of Articulation

The Paramedic Studies A.A.S. is designed to be a terminal degree leading to employment upon successful certification; transfer is not intended for this program.

## I. Adequacy of Faculty Resources

Garrett College has a strong instructional team of full-time faculty teaching the general education required courses and in its current paramedic certificate program consisting of part-time non-credit adjunct faculty. These instructors all meet the requirements for instructors of accredited Paramedic training programs as per the Standards and Guidelines for the Accreditation of Educational Programs in the Emergency Medical Services Professions, which are as follows:

### Qualifications

"The faculty must be knowledgeable in course content and effective in teaching their assigned subjects, and capable through academic preparation, training, and experience to teach the courses or topics to which they are assigned. For most programs, there should be a faculty member to assist in teaching and/or clinical coordination in addition to the program director. The faculty member should be certified by a nationally recognized certifying organization at an equal or higher level of professional training than the Emergency Medical Services Profession(s) for which training is being offered."

(<http://coaemsp.org/Documents/Standards.pdf>).

The instructors listed below have met the national standards and guidelines for Paramedic training, thus meeting the educational requirements of COMAR (13b.02.02.17): *C. The highest educational requirements for faculty members who teach courses of a technical or vocational nature at an associate degree-granting institution shall be compatible with their teaching assignments, with practical experience being given special consideration.* The technical content of this degree program is already an MHEC-approved Certificate Program employing the instructors listed below to deliver the technical content.

GC Title	Name	Education	Licensure/Certification	Experience/Training
Program Director	James Koon	BS, Frostburg State University MEd, Frostburg State University	Retired-National EMS Certification (National Registry of Emergency Medical Technicians); Paramedic (State of Maryland)	25 years in Emergency Medical Services education
Program Coordinator & Instructor	Doug Beitzel	AA, Garrett College	National EMS Certification (National Registry of Emergency Medical Technicians); Paramedic (State of Maryland)	15 years teaching Advanced Life Support; 19 years as a paramedic and professional firefighter; former flight medic
Instructor	Vincent Pyle	BS, Williams Jennings Bryan College	National EMS Certification (National Registry of Emergency Medical Technicians); Paramedic (State of Maryland)	11 years teaching Advanced Life Support; 22 years as paramedic and professional firefighter (rank-CPT)
Instructor	Wayne Tiemersma	n/a	National EMS Certification (National Registry of Emergency Medical Technicians); Paramedic (State of Maryland)	16 years teaching Advanced Life Support; current Garrett County Emergency Services Chief; trained in simulation technology
Instructor	Kara Merel	n/a	National EMS Certification (National Registry of Emergency Medical	12 years teaching Advanced Life Support;

			Technicians); Paramedic (State of Maryland)	trained in simulation technology
Instructor	Crissy Martz	BSN, Frostburg State University	Registered Nurse (State of Maryland); National EMS Certification (National Registry of Emergency Medical Technicians); Paramedic (State of Maryland)	10 years teaching Advanced Life Support
Instructor	Jill Ullery	BSN, West Virginia University	Registered Nurse (State of West Virginia); Pediatric Nursing Certification	5 years teaching Advanced Life Support
Instructor	Cathy Richards	BSN, West Virginia University	Registered Nurse (State of West Virginia); Pediatric Nursing Certification	8 years teaching Advanced Life Support

#### J. Adequacy of Library Resources

The Library at Garrett College offers extensive resources for academic research with a large collection that includes books, periodicals, electronic journals, newspapers, audiobooks, CDs, videos, and DVDs. In addition to student computer workstations with Microsoft Office products and internet access for academic projects, the GC library offers extensive services to students including, but not limited to, the following: multiple electronic databases including Maryland Digital Library, ProQuest, Science Resource Center, EasyBib and Access Science; and on-campus access and 24-hour remote access. These resources are assessed annually to determine what additional reference or library resources may be required.

#### K. Adequacy of Physical Facilities, Infrastructure, and Instructional Equipment

The proposed program will not have a major impact on the use of existing facilities and equipment and no additional facilities or equipment will be required to add Paramedic Studies A.A.S.

#### L. Adequacy of Financial Resources

Table 3 shows revenue estimates for both projected credit enrollment as well as from ongoing non-credit enrollment as the program will continue to be delivered and administered by the Continuing Education and Workforce Development Division of the College. Amounts listed below reflect the initial year of the proposed degree program and include current non-credit resources and expenditures. (It should be noted that students enroll in the Paramedic Studies A.A.S. program as a cohort and that another cohort is not started until the current cohort has completed the program.) Table 3 summarizes resource estimates in each of the following categories over the first five years of program implementation:

1. Reallocated Funds: \$0
2. Tuition and Fee Revenue: \$6,000
3. Grants and Contracts: \$20,000
4. Other Sources \$6,000

Table 4 shows expenditure estimates from the non-credit program as the program will continue to be delivered and administered by the Continuing Education and Workforce Development Division of the College and will not require additional resources from the credit academic budget. Table 4 summarizes expenditure estimates for the following categories over the first five years of the program:

1. New Faculty : \$0
2. New Administrative Staff (#FTE, Salary, and Benefits): \$0
3. New Support Staff (#FTE, Salary, and Benefits): \$0
4. Equipment: \$0
5. Library: \$0
6. New and/or Renovated Space: \$0
7. Other Expenses: The instructional materials costs are based on total anticipated enrollment, but are not new expenditures. They are currently included in the non-credit program budget.

**Table 3. Resources**

Resource Categories*	Year 1	Year 2	Year 3	Year 4	Year 5
1. Reallocated Funds	0	0	0	0	0
2. Tuition/Fee Revenue (c + g below)	17,303	17,374	27,043.50	27,132	37,510
a. Number of F/T Students	2	2	3	3	4
b. Annual Tuition/Fee Rate	4,361.50	4,307	4,544.50	4,484	4,727.50
c. Total F/T Revenue (a x b)	8,723	8,614	13,633.50	13,452	18,910
d. Number of P/T Students	4	4	6	6	8
e. Credit Hour Rate (Includes fees)	143	146	149	152	155
f. Annual Credit Hour Rate	15	15	15	15	15
g. Total P/T Revenue (d X e X f)	8,580	8,760	13,410	13,680	18,600
3. Grants, Contracts & Other External Sources	37,500	37,500	37,500	37,500	37,500
4. Other Sources*	43,375	21,000	43,375	21,000	43,375
<b>TOTAL (Add 1- 4)</b>	<b>98,178</b>	<b>75,874</b>	<b>107,918.50</b>	<b>85,632</b>	<b>118,385</b>

\*These projected resources (4. Other Sources) are based on current and future expected non-credit enrollments and tuition/fees based on those enrollments.

**Table 4. Expenditures**

Expenditure Categories*	Year 1	Year 2	Year 3	Year 4	Year 5
1. Faculty (b + c below)	38,030	39,216	38,030	39,216	38,030
a.# FTE	0	0	0	0	0
b.Total Salary (non-credit instructors)	35,542	36,650	35,542	20,5000	35,542
c. Total Benefits	2,488	2,566	2,488	1,640	2,488
2. Admin Staff (b + c below)	20,062	20,062	21,400	21,400	21,400
a.# FTE	1	1	1	1	1

b. Total Salary	18,750	18,750	18,750	18,750	18,750
c. Total Benefits	1,312	1,312	1,312	1,312	1,312
3. Support Staff (b + c below)	0	0	0	0	0
a. # FTE	0	0	0	0	0
b. Total Salary	0	0	0	0	0
c. Total Benefits	0	0	0	0	0
4. Equipment	0	0	0	0	0
5. Library	0	0	0	0	0
6. New or Renovated Space	0	0	0	0	0
7. Other Expenses (instructional materials)	15,000	2,200	15,000	2,200	15,000
<b>TOTAL (Add 1- 7)</b>	<b>73,092</b>	<b>61,478</b>	<b>74,430</b>	<b>62,816</b>	<b>74,430</b>

\*These projected expenditures are based on current and future expected non-credit program operations and are not additional costs. The faculty expenditures are based on the current and anticipated future salaries of non-credit instructors. Faculty costs are for delivery of paramedic portion of the program. No additional resources are needed for general education course delivery.

#### **M. Adequacy of Provisions for Program Evaluation**

Garrett College has a formal program review process whereby each of its academic and career programs are formally reviewed on a regular cycle. A new program is reviewed after the first three years and then, if successful, falls into the College's regular five-year academic program review cycle. In addition to the program data, the review takes into account information faculty performance and all costs related to the program.

Because the Paramedic A.A.S. is a career-oriented program, the focus will be on specific knowledge and skills needed for students who wish to enter the emergency services field or who wish to pursue career advancement. There is one industry-recognized certification agency, National Registry of Emergency Medical Technicians. This certification is required in the State of Maryland for licensure as a Paramedic.

The program evaluation will also include the results from student learning outcomes assessment. In addition to college-wide general education student learning outcomes, the College has developed a set of program-level learning outcomes for every transfer and career program. Student learning outcomes are also assessed at the course level within each program.

Garrett College received initial accreditation of the Paramedic certificate program through the Committee on Accreditation of Allied Health Professions (CAAHEP) in 2012. The current Paramedic certificate program was reaccredited in 2017, and will be evaluated for reaccreditation in 2022.

The approval process is accomplished through extensive investigation of self-evaluation reports prepared by the Paramedic program director, and through on-site evaluations of program operations to verify that they operate in compliance with CAAHEP Guidelines. Programs that successfully complete the evaluation process are approved for a period of five years.

**N. Consistency with the State's Minority Student Achievement Goals**

The College recruits in urban areas with large minority populations and approximately 25% of the current student body is comprised of minority students.

**O. Relationship to Low Productivity Programs**

There is no relationship to low productivity program.

**P. Distance Education Program**

This is not a Distance Education Program.