



Northampton Community College

**Emergency Services Administration, AAS Degree
Emergency Services Technology, AAS Degree
Emergency Services Specialist, Specialized Diploma**

Program Audit 2013-2018

Auditor:

**Bruce Henry
Director, Monroe County Public Safety Center**

Audit Prepared By:

**Thomas Barnowski
Director, Corporate and Public Safety Education**

**Judith Rex, Ph.D.
Dean, Allied Health & Sciences Division**

EMERGENCY SERVICES
DEGREE & DIPLOMA COMBINED
2013-2018 ACADEMIC AUDIT

I. PURPOSE

During the audit period of 2013 -2018, the program's overarching purpose was to provide training and academic education for Northampton County emergency first responders. This functional goal continues to make the program an important resource for the community. The Emergency Services Associate in Applied Science degree is one of a few credit programs in the Commonwealth. Most institutions that offer emergency response related training courses provide them in a non-credit format. This program functions as a partnership within contractual arrangements with Northampton County Emergency Management, Northampton County Fire School Association, the Eastern Pennsylvania Emergency Medical Services Council, and the Pennsylvania State Fire Academy. It has no full-time instructors and a small number of full-time students. The courses for this audit period were delivered at Northampton Community College facilities, partner sites and with non-traditional schedules.

II. CURRICULUM (See Attachment A)

During the audit years, there was an update of all course outlines associated with this audit. Additionally, within the Emergency Services Technology Associate in Applied Science Degree there is the inclusion of concept electives intended to focus students, based on their respective interests, towards fire technology, emergency medicine or security disciplines. Additional changes include new course offerings that discuss crime scene identification and preservation, first responder stress management, and technology applications. Embedded in the concept electives are homeland security topics, tactical emergency medical response and operational risk management for EMS. While updates and changes have been made in response to our changing world, the associated courses EMGS104 and EMGS105 titled the PA State Fire Academy Essentials of Firefighting and Emergency Response continue to be the foundation of the program. This four level PA State Fire Academy program has been updated in 2012 and again in 2013 by the State Fire Academy. As a result of these updates EMGS 104 Essentials of Firefighting and Emergency Response is now comprised of 100 hours of instruction and EMGS105 Essentials of Interior Firefighting and Emergency Response has 40 hours of instruction. The revisions include topic sequencing changes within the modules, a new textbook and prerequisite requirements to advance through the levels. The required integrated courses include introductions to The Incident Command System, The National Incident Management System, and hazardous materials awareness and operations.

Within the curriculum, The Emergency Services Specialized Diploma requires no general education requirements and continues to be restricted to EMGS designated courses and electives.

The need for a continual supply of qualified and competent emergency responders cannot be denied. Clearly, the task to provide such individuals requires awareness of the challenges facing responders. Discussion of the various response challenges along with the assessment process of the current Emergency Services Technology Degree has revealed limitations to the interoperable aspects as it pertains to individual response disciplines. These limitations are reflective of the ongoing issues that confront the various emergency responders. Technical aspects of the program need continual updating.

As response agencies struggle to do more with less, the integration of response disciplines has become a critical component toward achieving desired outcomes. A truly integrated Emergency Services Technology Degree requires a platform for continuity between emergency responders. To achieve that goal the current Emergency Services Technology Degree has been updated with the inclusion of universal technological information while offering three individualized concept elective options. This new format

offers concept elective options that include, fire science, emergency medical service and security applications. Within the hand-on aspects of learning that comprise simulations, basic crime scene forensics, stress awareness and management is an interwoven and comprehensive approach intended to meet the needs of our emergency response community. The objective is to achieve all desired functional leaning outcomes. With this educational approach, the critical information needed to ensure success for our response community will be available for students to implement in their respective roles.

III. ENROLLMENT (See Attachment B)

The full-time enrollment in the AAS degree program has varied throughout the five years of this audit period. Enrollment variations have ranged from 32 students to 23. Currently there are 23 students enrolled in the Emergency Services Degree programs. On average this program will graduate one or two per semester. Full-time students make up about 15% of the total enrollment number. Part-time or non-traditional students comprise the bulk of students in the program. A significant factor of consideration is that prior to January 2011, students who qualified as active Northampton County emergency responders were issued tuition waivers and attended Emergency Service credit courses at no cost. In 2010 when the Commonwealth FTE reimbursement funding of emergency services students enrolled in degree programs ended, the negative effects on enrollment within the degree programs became clearly evident. The expectation that enrollment in this program would significantly decline when these incentives were no longer offered has proven to be correct. Enrollment numbers prior to 2010 averaged around 75 students.

Overall, program enrollment numbers seem to have stabilized during the last five years of the audit period. On average the program will carry around 25 enrollees. With the changes to the Commonwealth funding formulas and stipend programs, funding for this program has been severely impacted. Tuition fees must drive its funding continuance.

From an enrollment perspective, a comprehensive view of this program must include the associated non-credit program courses offered through the Center of Business and Technology (CBI). Student head counts consistently average about 3000 a year. At the present time, subsidy funding from Northampton County Emergency Management Services Office have provided some funds to defray the costs of non-credit emergency response training. Through invoiced reimbursement based on courses provided for Northampton County responders to attend, there is some ongoing funding based on delivered courses. Within the scope of this arrangement there are continuing possibilities of selected courses being offered simultaneously in credit and non-credit format. The economic benefits are apparent as course delivery costs are shared and offset with funds from Northampton County EM. . Continuance of this arrangement is on an annual agreement. It must be noted that the competition for available funds is ever-present. Nonetheless, the financial benefits afforded by this negotiated arrangement along with solid enrollment numbers have had a positive effect on the overall emergency services training throughout Northampton County.

IV. PROGRAM COSTS/RESOURCES (See Attachment C)

The program is led by Thomas Barnowski, Director of Corporate and Public Safety Education, who oversees the program's credit and non-credit areas. Delivery of a number of courses involved team-taught courses that were subject to Commonwealth regulations, requirements, and outcomes.

Adjunct instructors teach all the courses in the program. The challenge to find instructors with academic credentials or graduate degrees in this field has improved during this audit period. Within the adjunct ranks there are some instructors with graduate degrees. At a minimum, all of the instructors possess experience and knowledge which makes them valuable assets in the program.

Thomas Barnowski

Director, Corporate and Public Safety Education
MS, Safety, Security and Emergency Management with a graduate certificate in Corporate Safety,
Eastern Kentucky University

Terrence Hoben

MA, Administration Science, Fairleigh Dickinson University

Joseph Kitchell

MA, Administration Science, Fairleigh Dickinson University

Kristopher Mattson

MA, Emergency Management, Fairleigh Dickinson University

The Emergency Services Program Advisory Board meets twice a year to discuss matters pertaining to the program. The advisory board members provide guidance and suggestions to ensure the program is current and viable. This board is updated on current trends and outcomes while offering feedback on the direction of the program. At these meetings, quality assurance and assessment of course outcomes are often subjects for discussion. Information pertaining to State and Federal courses with their directives are reviewed and discussed as well. Program outcomes are updated to reflect current competencies necessary for responders.

At present, the Emergency Services Technology program is ranked 31st at the college in program costs. Emergency Services Technology is above the current college average cost per FTE. The 2018 figure reveals \$8986 for the program FTE cost versus a figure of \$7075 for institutional average FTE cost.

The Emergency Services Administration program is ranked 48th at the college in program costs. Emergency Services Administration is above the current college average cost per FTE. The 2018 figure reveals \$7735 for the program FTE cost versus a figure of \$7075 for institutional average FTE cost. Revenue is generated through tuition-paying credit course students. Additionally, invoiced funding from Northampton County Emergency Management Services has provided some funding for students taking non-credit course and converting them to qualifying credit courses. There are currently three dedicated scholarship funds specifically assigned to students participating in the Emergency Services Degree programs. Two scholarship funds are limited to Northampton County responders and one is designated for Monroe County responders. Currently, there is in excess of \$11,000 of scholarship funds for qualifying students.

V. GRADUATION RATE (See attachment D)

The original intent of students in this program was to receive tuition free in-service training under the provisions of old agreements with the Northampton County, the Northampton County Fire School and the Eastern Area EMS Council. Under the original agreements from the past, few students actually intended to complete the entire degree program. Once they received training to satisfy their affiliated response agency's requirements their education was essentially concluded. As previously mentioned, tuition free driven enrollment began to wane after January 2010. Students began to pay tuition fees to attend the degree programs beginning Fall Semester 2010. With tuition fees in the mix, the motivation to graduate changed as well. Graduation has become an objective for the current students enrolled in the degree.

Persistence to pursue graduation has increased as employment requirements stipulate achievement of academic credentials. Advancement in rank for incumbent employed responders or the requirements of new hires has become a motivating influence for students to pursue and complete degree requirements for graduation. Presently, there are 23 students intending to graduate over the next few years. This factor

should have a positive impact on the graduation rate over the next audit period. The current audit report period has 16 combined graduates from Emergency Service Degree or Emergency Services Specialized Diploma. All responding graduates report, they are employed in their field or a related field of study.

VI. ASSESSMENT (See attachment E)

Observations and comments shared from advisory committee members and active emergency responders reveal that while the program has been successful preparing responders for their respective duties, the interoperability aspects of a combined response community has to be addressed in a discipline specific aspect of a larger comprehensive program. A common foundation of essential information must be utilized to integrate discipline specific information while functioning within the interoperable aspects of expanding emergency response responsibilities. Conversations with the Advisory Board and other industry professionals seem to mirror the national conversation: there are increasing requests to turn non-credit courses into credit course equivalencies to achieve academic credentials while installing functional skills. Trends indicate that academic credentials are becoming requirements for advancement within the various response agencies. Assessment of required skills is challenging within the requirements of a program whereby failure cannot be an outcome. Therefore, the assessment matrices align as they are able with prescribed Commonwealth and Federal performance expectations.

The attached matrices offer a comparison of courses within the existing program and their relationship to program outcomes. This preliminary work provides awareness of all comprehensive outcomes while providing discipline specific information for doing program and course-level assessment as it relates to individual fire, security or emergency medical technical requirements.

VII. EXTERNAL AUDITOR'S REPORT

Judith Rex
Dean of Allied Health and Sciences
Northampton Community College

Dr. Rex,

Thank you for meeting with me last Monday and showing me your operation at the Fowler Center. The facility is indeed a beautiful and well thought out campus. As part of the tour and visit I have been asked to comment on some of the facility's high points and concerns. While the building has recently been renovated and the training areas are very modern and up to date, there are still some upgrades required in the equipment field. I understand that the while equipment is very expensive and everything cannot be updated at once, there are still a few items that should be addressed. On the fire side there are several Self Contained Breathing Apparatus (SCBA) units that are quite old and possibly non-compliant with current standards. These units are still acceptable for basic training but should be considered for updates.

One of the current trends in education seems to be "blended or hybrid" learning in which on-line learning is mixed with classroom and hands on practical training. This concept, while very workable in most training environments, will need to be fine-tuned to incorporate the practical side of emergency service training. Making sure all the students are at the same level of training may prove a difficult task.

The Forensic Training area is certainly one of a kind and is to be commended for it's equipment, set-up and operations. The Act 235 training area is well equipped and set up as well and should provide a very unique training experience. The EMT area with the new classrooms was an amazing set up and very well thought out. I would suggest a continued partnership with the local EMS Council as they have a lot to offer through advice and even available training equipment. There is also a great local resource in the county EMAs in your area, we have a vast array of training equipment and possible assistance with guest speakers and available subject matter experts that may be called upon to assist. A great many FEMA online training courses are open to students to assist them in moving ahead in the emergency services field. These classes are available free and at the student's convenience. This is important as following state and national training guidelines will insure uniform compliance with other areas.

Another great local resource can be the area Vo-Tech schools where the basic emergency programs are being taught. This could be a great source of potential students. The new plan of

running the EMR/EMT program at the local High Schools is a very interesting concept that should yield quite a few willing learners in the future.

This is just a brief overview of the operation from my short visit. I'm sure the overall learning experience at Northampton will be a very enjoyable and rewarding adventure for all those involved.

Again, thank you and Tom for taking the time to show me around. I hope this helps with your evaluation of the process.

Bruce Henry
Director, Monroe County Emergency Management
100 Gypsum Road, Suite 101
Stroudsburg, PA 18360
bhenry@monroecountypa.gov
570-992-4113

VIII. CONCLUSION

As one views the relevance of this degree or specialized diploma, the backdrop of ever-present emergencies or disasters must be used as factors in any comprehensive assessment. Ongoing world events and the potential threats of terrorism, validate the interoperable mitigation and response objectives of all Public Safety efforts. Those efforts continue to require a capable and prepared emergency responder. The advent and effects of severe weather, fires, and floods along with the daily need for a comprehensive emergency response has truly underscored the value of our functioning responders.

For many years, the Emergency Services Program has met many of the needs for Northampton County Emergency Responders. World, national and local incidents require that all levels of government and response community members must adhere to standards and interoperability requirements as it relates to resources and procedures. Functional performance has never been more critical to ensure desired outcomes. This new philosophy implies a credentialed and competent person must be part of the equation to provide successful outcomes. The various components of public safety must come together to achieve desired results. Innovative, responsive, and comprehensive educational environments contain the required methodologies to achieve success. Academic credentialing and alignment with National Fire Science Curriculum should be considered per the recommendations of the PA State Fire Academy. A variety of nationally recognized curricula should be reviewed and if their outcomes fall within the context this program, credit should be awarded.

Clearly current and future student needs and demands are changing our thoughts as it relates to educational delivery methodologies. Couple the challenge of effective course delivery methodology with the bleak information found in the November 2018 report from PA Senate Resolution # 6 and one has to wonder how the Commonwealth's emergency response requirements will be met. Within the solutions to meet the current and future emergency response needs, one has to include effective training and education. The expansion of education and training has to become regional and serve all response agencies. Current demographics and trends seem to suggest a shift on the horizon from all-volunteer response agencies toward career service providers. In order to meet a perceived regional need within the context of available responder time and funding challenges, the Emergency Service degrees are transitioning to online delivery formats. This transition provides educational opportunities for the expanding need of on-demand learning for incumbent career responders while providing the flexibility of distance learning for others. The transition is on its way with the Fall semester of 2019. All courses for this Fall semester will be delivering in distance format. Regional availability and flexibility for all courses can be achieved online to accommodate all students pursuing their academic goals.

As goals and objectives are established to meet the educational needs of a regional emergency response community, clearly the partnerships with Northampton County, Northampton County Fire School Association, and the Eastern Pennsylvania Emergency Medical Services Council will need to continue in order to serve the needs of the existing and future responders. Regional partnerships with a variety of new stakeholders will need to be recruited and developed. Expansion of educational opportunities into Monroe County and other areas will need to be explored and developed as awareness of this new delivery modality is marketed to the response community.

For emergency responders, the relevance of these degrees or specialized diploma can only be reinforced. Never before had world events and the potential threats of terrorism, validate the interoperable mitigation and response objectives of all Public Safety efforts. It is essential that effective mitigating response requires a capable and prepared emergency responder. The advent and effects of severe weather, fires, and floods along with the daily need for a comprehensive emergency response has truly underscored the value of our functioning responders. The continuance and expansion of these degrees will serve all emergency responders now and into the future as they prepare to answer the call for help.

Areas of Strength

Within this audit are the ongoing efforts of our emergency responders and workforce partners to identify aspects of the curriculum that can be targeted for improvement. Based on those recommendations we are currently focused on the improving those areas for our students so they can serve their respective communities while advancing their careers in the emergency services.

Areas of Improvement

Suggestions and recommendations for improvement are taken from the auditor. Currently, one of those recommendations is being implemented as conversion of all appropriate EMGS courses to online distance platforms. This conversion will make it more convenient for the students to complete their degree requirements while working as responders. Additionally, it will provide dual enrollment students the ability to complete courses while attending high school.

Recommendations

The auditor recommends to continue these degrees and specialized diplomas within the context of distance delivery of courses. Further explore hybrid opportunities whereby performance assessments can be incorporated into effective learning platforms. As career response expands coverage areas, explore cross-over aspects with NCC's newly acquired Federal status as an OSHA OTI Education center. We plan to convert the EMGS administration courses this year to online distance platform by August 2019, and have the EMGS technology courses converted by August 2020.

Thomas Barnowski
Director, Corporate and Public Safety

Judith Rex, Ph.D.
Dean, Allied Health & Sciences Division

Emergency Services Administration, Associate in Applied Science

Narrative

Whether an emergency is the result of a natural disaster or man-made, governments, schools, hospitals and industry need to be able to respond effectively. Emergency Services administrators are the managers who are charged with meeting this important challenge by providing fire, police, emergency medical services and more. Northampton's associate's degree is open to all qualified applicants. If you are an experienced first responder interested in advancing your career, this program could be an excellent option for you. Individuals employed in the private sector as safety officers or security professionals can also develop and strengthen their capabilities and effectiveness by completing this program.

Northampton's graduates are employed in positions with job titles such as emergency management coordinator, deputy or assistant emergency management coordinator, public safety director, emergency operations director, fire fighter, emergency medical technician, law enforcement official, safety professional or security coordinator.

Features

Our program and course content has been developed to be congruent with concepts established by the Federal Emergency Management Agency (FEMA), Pennsylvania Emergency Management Agency (PEMA) and local emergency planning committees. Courses emphasize an interoperable approach to the total cycle of emergency management. We develop your administrative skills, including accounting and human resources management, so that you can function at an operational level within an emergency response organization or agency. Required General Education courses round out your training so that you are equipped to communicate well with diverse staff and the community.

Requirements

The Emergency Services Administration degree contains provisions for a free elective of three credits in addition to the General Education electives. This program can be completed in the day or evening, on a full-time or part-time basis.

Career Potential: Emergency Management Coordinators, Fire Officer, Law Enforcement Officer, Emergency Medical Supervisor, Safety and Security Director, Corrections Officer, Emergency Management Specialist, Emergency Response Manager

Outcomes

Graduates of the program will:

- Demonstrate an understanding of administrative principles as they relate to accounting/finance and management.
- Apply emergency service and public safety skills as they relate to agency/organization operations.
- Acquire and demonstrate strong presentation and communication skills.
- Acquire and practice an understanding of ethics and legal responsibility as they pertain to the gravity of emergency response and public safety.
- Work effectively in both individual and team environments.
- Design and implement a cohesive administrative strategy, effectively combining all elements of successful business practice.
- Employ critical thinking and problem solving techniques relevant to emergency situations.

Program Sequence

First Semester

COLS101	College Success	1 credits
CISC101	Introduction to Computers	3 credits
CMTH102	Introduction to Communication	3 credits
EMGS120	Emergency Services Health & Safety	3 credits
ENGL101	English I	3 credits
MATH150	Introductory Statistics	3 credits
	Total:	16

Second Semester

EMGS122	Emergency Action Planning	3 credits
EMGS231	Law for Emergency Services	3 credits
ENGL151R	English II	3 credits
	General Education Elective (AH)	3 credits
	General Education Elective (SSHB)	3 credits
	Total:	15

Third Semester

ACCT101	Financial Accounting I	3 credits
BUSA226	Human Resources Management	3 credits
EMGS217	Public Information & Relations	3 credits
EMGS221	Emergency Service Management	3 credits
POLS251	State and Local Government	3 credits
	Total:	15

Fourth Semester

BUSA152	Business Law I	3 credits
EMGS216	Emergency Fiscal Administration	3 credits
EMGS218	Incident Command & Management	3 credits
EMGS219	Regulatory Compliance	3 credits
	Elective	3 credits
	Total:	15

Total Credits: 61

- For the General Education Electives, students must select one course from the list of approved courses in each of the following categories: Arts & Humanities (AH) and Social Science: Scientific Study of Human Behavior (SSHB).
- One General Education Elective must be taken in a Writing Intensive (WI) section, and one should be designated as Diversity and Global Awareness (D).

Emergency Services Technology, Associate in Applied Science

Narrative

In the emergency services professions, masterful skills and attention to detail are essential elements that lead to successful outcomes.

NCC's Emergency Services Technology program provides the education and training you will need to safely and effectively perform the difficult and dangerous duties of saving lives and property. The increasing demand for emergency responders is being driven by the escalating needs of the various communities being served. NCC's Emergency Services Degree is intended to prepare responders to meet those needs. This revised degree contains three concept electives that will allow students to choose between fire, emergency medical, or security technologies. In essence, specific discipline focus based on individual interest is determined by the student.

The program takes into account the logistical challenges of incumbent responders seeking to enhance their skills while additionally meeting the needs of recent high school graduates who are interested in the emergency services. The various experience levels of students in the same class provides for a unique dimension to learning. A number of courses are offered in distance learning formats to accommodate student scheduling challenges. Introduction of eight week long semesters will also allow students the ability to manage their time commitments.

Please Note: Students are required to supply their own NFPA compliant turn-out-gear and self-contained breathing apparatus.

Features

A number of program electives are available to allow you to select and focus on your area of personal interest. You will learn the professional techniques you need to meet the challenges in your specific area. In addition, you will take courses in general education to help give you a broader understanding of the type of work for which you are preparing. To help students and graduates stay up-to-date, we will announce through the program special "brush-up" and recertification seminars in EMT, CPR, and other related offerings.

Enrollment in the EMT program is limited and priority will be given to students who are affiliated with a state-recognized Emergency Services program. You can enter this program any given semester and can complete it within four years by attending evening or distance learning classes on a part-time basis.

Outcomes

Graduates of the program will:

- Apply interoperable emergency response and decision making skills to achieve positive outcomes.
- Demonstrate functionality as it relates to emergency response information technology.
- Function within nationally recognized guidelines and/or standards as an interoperable emergency first responder.
- Apply emergency service and public safety skills as they relate to mitigation, preparedness, response, and recovery operations.
- Develop an interoperable management approach in the various segments of emergency services, Public Safety (Fire/Emergency Medical), and the Private Sector (Industry).
- Discuss ethical, moral, and legal issues associated with emergency response environments and be able to apply these concepts within the context of expected behavior.

Program Sequence

First Semester

COLS101	College Success	1 credits
ENGL101	English I	3 credits
MATH103	Applications in Mathematics	3 credits
	General Education Elective	3 credits
EMGS118	Introduction to Crime Scene Identification, Preservation and Investigation	3 credits
EMGS120	Emergency Services Health & Safety	3 credits
	Total:	16

Second Semester

CISC101	Introduction to Computers	3 credits
CMTH102	Introduction to Communication	3 credits
ENGL151R	English II	3 credits
EMGS	Concept Electives +	6 credits
	Total:	15

Third Semester

SOCA103	Principles of Sociology	3 credits
	Free Elective	3 credits
EMGS218	Incident Command & Management	3 credits
EMGS231	Law for Emergency Services	3 credits
EMGS256	First Responder Stress Awareness and Management	3 credits
EMGS	Concept Elective +	3 credits
	Total:	18

Fourth Semester

	General Education Elective (WI)	3 credits
EMGS122	Emergency Action Planning	3 credits
EMGS201	Chemistry of Hazardous Materials	3 credits
EMGS207	Technology Applications for Emergency Services	3 credits
EMGS	Concept Elective +	3 credits
	Total:	15

Concept Electives should be completed based on area of focus.

Fire Technology

Second Semester

EMGS104	Essentials of Firefighting & Emergency Response	4 credits
EMGS105	Essentials of Interior Firefighting & Emergency Response	2 credits

Third Semester

EMGS115	Emergency Medical Technician - Basic	6 credits
----------------	--------------------------------------	-----------

Fourth Semester

EMGS119	Fundamentals of Homeland Security	3 credits
EMGS160	Introduction to Security	3 credits

EMS Technology

Second Semester

EMGS151	Fire Prevention	3 credits
----------------	-----------------	-----------

Third Semester

EMGS208	Operational Risk Management for Emergency Medical Services	3 credits
----------------	--	-----------

Fourth Semester

EMGS235	Security Management	3 credits
----------------	---------------------	-----------

Security Technology

Second Semester

EMGS109	Vehicle Rescue	3 credits
----------------	----------------	-----------

Third Semester

EMGS220	Methods of EMS Tactical Response	3 credits
----------------	----------------------------------	-----------

Fourth Semester

EMGS218	Incident Command & Management	3 credits
----------------	-------------------------------	-----------

Total Credits: 64

- For the General Education Electives, students must select one course from the list of approved courses in each of the following categories: Arts & Humanities (AH) and Societies and Institutions over Time (SIT).
- One course should be designated as Diversity and Global Awareness (D).
- One General Education Elective must be taken in a Writing Intensive (WI) section.

Emergency Services Specialist, Specialized Diploma

Narrative

The demand for well-trained people in the emergency services field is ongoing and the employment outlook is very good. NCC's Emergency Services Specialist diploma program was created to respond to the workforce needs of our region and is unique in Northampton County.

The program provides an opportunity for anyone wanting to enter or advance quickly in this challenging career field. The program is an excellent option for people currently employed as emergency service personnel who want additional training and education for professional advancement or for personal growth in the profession.

Please Note: Students are required to supply their own NFPA compliant turn-out-gear and self-contained breathing apparatus.

Features

If you are interested in a fast-track option, our Emergency Services Specialist program provides an alternative level of achievement in a shorter period of time compared to our associate's degree program. The curriculum includes five required courses (16 credits) and nine credits of EMGS elective courses allowing you to tailor the program to your individual goals and interests. Electives include firefighting courses, rescue courses, Emergency Medical Technician courses, and management courses.

After you've completed the specialized diploma, you may choose to continue your studies. In this case, you can apply all of your specialized diploma courses toward an associate degree program or transfer your credits to another institution. All of the courses in the specialized diploma curriculum are offered as part of the current degree program.

The program can be completed on a part-time schedule.

View Gainful Employment information on the Emergency Services Specialist specialized diploma.

Contact the Admissions Office at 610-861-5500 for further information.

Outcomes

Graduates of the program will:

- Apply interoperable emergency response and decision making skills to achieve positive outcomes.
- Demonstrate functionality as it relates to emergency response information technology.
- Function within nationally recognized guidelines and/or standards as an interoperable emergency first responder.
- Apply emergency service and public safety skills as they relate to mitigation, preparedness, response, and recovery operations.
- Develop an interoperable management approach in the various segments of emergency services, Public Safety (Fire/Emergency Medical), and the Private Sector (Industry).
- Discuss ethical, moral, and legal issues associated with emergency response environments and be able to apply these concepts within the context of expected behavior.

Program Sequence

Emergency Services Technology - Emergency Services Specialist

EMGS104	Essentials of Firefighting & Emergency Response	4 credits
EMGS151	Fire Prevention	3 credits
EMGS221	Emergency Service Management	3 credits
EMGS231	Law for Emergency Services	3 credits
EMGS201	Chemistry of Hazardous Materials	3 credits
EMGS	Program Electives +	9 credits
	Total:	25

+ Program electives are restricted to courses with an EMGS prefix.

Course Information

EMGS - Emergency Services

EMGS 104 - Essentials of Firefighting & Emergency Response (4 credits)

This course will introduce basic firefighting concepts within the context of emergency response. Topics will include an overview of the fire service, fire service organization, firefighter safety, personal protective equipment, self-contained breathing apparatus, terrorism awareness, fire behavior, fire extinguishers, water supply, fire hose, ropes, and hazardous materials. Exterior fire group operation discussion includes ladders, communications, protective systems/sprinklers, forcible entry, and fire prevention. Students will be required to complete or obtain certificates in Hazardous Materials Awareness, Hazardous Materials Operations, Intro to Incident Command Sys. (IS100) and National Incident Management Sys. (IS700).

EMGS 105 - Essentials of Interior Firefighting & Emergency Response (2 credits)

This course will introduce concepts related to interior firefighting and emergency response. The course is designed to introduce firefighters to interior fire ground operations including nozzles and streams, self-contained breathing apparatus (SCBA), rescuer, ventilation, fire suppression, salvage, and firefighter survival. It builds upon concepts from EMGS104 while providing information and procedures that will integrate and complete basic firefighting and emergency response competency skill sets. Prereq.- EMGS104. Prerequisite: EMGS104.

EMGS 109 - Vehicle Rescue (3 credits)

This course will provide an awareness and operations level of information and skills as it pertains to vehicle rescue incidents. Topics will include general vehicle rescue function/operation; incident management of the vehicle accident/rescue incident; vehicle anatomy, design, and construction; recognition and control of hazards relative to a vehicle accident/rescue incident; and the tools and equipment used at a vehicle accident/rescue incident. Additional topics will include, patient access, care, and packaging along with disentanglement; extrication and termination. Students will be required to carry and maintain accident and health insurance and/or workman's compensation and sign a waiver of liability.

EMGS 115 - Emergency Medical Technician - Basic (6 credits)

This course provides fundamental training required to perform as an emergency service medical personnel and to become certified as an EMT. This skills-oriented course involved extensive hands-on training in the evaluation and treatment of the sick and injured. This course requires mandatory student lab time at a hospital in a clinical setting. Students will be required to complete a PA Criminal Background check, FBI Background check, physical exam, immunization record, and 9 panel drug screen as per clinical affiliation policy prior to starting the hospital patient assessment portion of the course. Formerly EMGS 107+108. May not be taken for credit after completing these courses. Additional course fees: \$13.00.

EMGS 118 - Introduction to Crime Scene Identification, Preservation and Investigation (3 credits)

This course provides essential information for first responders as it relates to their potential to encounter crime scenes while performing their duties. It will provide information that will allow responders to identify and preserve critical evidence. Investigative techniques are discussed within the context of potential responder participation in the prosecutorial process. The importance of crime scene identification and preservation while supporting law enforcement investigators as they collect and package crime scene evidence is emphasized.

EMGS 119 - Fundamentals of Homeland Security (3 credits)

This course provides essential introductory information as it relates to homeland security fundamental principles and practices. Discussion provides operational awareness within the variety of challenges associated with the provision of adequate homeland security measures. Subjects and topics covered will allow students to consider all aspects associated with prevention, response and recovery for actions and conditions associated with threats, acts of terror, disasters or catastrophes. Focus within the context of laws and law enforcement will offer insight to the comprehensive topic of homeland security.

EMGS 120 - Emergency Services Health & Safety (3 credits)

This course introduces the basic concepts of occupational health and safety as they relate to emergency service organizations. Topics include risk evaluation and control procedures for fire stations, training sites, emergency vehicles, and emergency situations involving fire, emergency medical services, hazardous materials response and technical rescue response agencies. Offered fall semester only.

EMGS 122 - Emergency Action Planning (3 credits)

This course is intended to provide basic emergency action planning information while emphasizing the importance of the emergency planning process. Additional subject matter includes history, laws and regulations, common practices, risk assessments, response actions including mitigation and recovery. The phases of emergency management are explored along with the roles and responsibilities of all stakeholders. Offered fall semester only.

EMGS 151 - Fire Prevention (3 credits)

This course provides essential information regarding the history and concept of fire prevention. Discussion incorporates concepts that include, authority having jurisdiction, risk assessment, fire prevention, inspection procedures and reports, building construction, and associated occupancy classifications. Additionally it includes identification and correction of fire hazards, ingress and egress, fire protection and water supply systems, portable extinguishers, fire detection and alarm systems, plans review, hazardous materials that include the proper handling and use of flammable and combustible materials.

EMGS 160 - Introduction to Security (3 credits)

This course provides essential introductory information as it relates to basic security fundamental principles and practices. Discussion provides operational awareness within the variety of challenges associated with the provision of adequate security measures. Subjects and topics covered will allow students to consider all aspects associated with basic security practices that involve prevention, response, risk assessment, insurance and liability, workplace violence and inappropriate activities of others associated with negative outcomes. Additional discussion includes recovery for actions and conditions associated with threats, acts of terror, disasters or catastrophes. Focus within the context of laws, regulations and interfacing with law enforcement will offer insight to the comprehensive topic of security.

EMGS 201 - Chemistry of Hazardous Materials (3 credits)

This course provides basic chemistry information relating to the various categories of hazardous materials as it relates to the emergency services. Information discussed includes problems of recognition, reactivity, along with health and safety concerns encountered by first responders.

EMGS 202 - Fire Tactics and Incident Command (3 credits)

Basic fire fighting tactics, the strategy and equipment to be used in extinguishing different types of fires; how to use available manpower and equipment efficiently; techniques in predicting fire severity; when, where and how to ventilate a building.

EMGS 207 - Technology Applications for Emergency Services (3 credits)

This course provides essential introductory information for first responders as it relates to applied technology and the emergency services. Discussion provides operational awareness within the context of emergency management. Subjects and topics covered will allow responders to utilize technologies to facilitate and enhance emergency response efficiency and effectiveness. Information technological strategies along with operational devices and systems will be discussed as solutions and tools to achieve successful outcomes for all emergency responders and managers.

EMGS 208 - Operational Risk Management for Emergency Medical Services (3 credits)

This course provides essential introductory information for emergency medical providers as it relates to risk management and emergency medical services. Discussion provides operational awareness of the inherent risks for emergency medical service providers within the various aspects of providing emergency medical service. Subjects and topics covered will allow responders to recognize risks while providing mitigating actions to reduce or eliminate exposure to hazards. Discussion of regulatory compliance will be offered to facilitate required compliance efforts as risk management concepts are explored within the context of comprehensive accident prevention and safety programs.

EMGS 216 - Emergency Fiscal Administration (3 credits)

The course will examine the techniques and operations of fiscal administration as it relates to the public sector with an emphasis on emergency services and public safety. Subject matter will include public funding, spending, budgeting, risk management, and grant writing. . Information and procedures will be introduced and practiced to allow students to complete a functioning budget, as well as develop future budget projections and funding scenarios. Offered fall semester only.

EMGS 217 - Public Information & Relations (3 credits)

This course will provide an effective way to manage public information at an incident or event, regardless of the size and complexity of the situation or the number of entities involved. Emphasis is placed on understanding the perspective of media personnel arriving on the scene. Students will learn how to prepare for media arrival along with agency interface. Presentation skills that afford concise and accurate information distribution will be discussed and practiced. Offered spring semester only.

EMGS 218 - Incident Command & Management (3 credits)

This course is a collection of FEMA course that comprise IS 100: Introduction to Incident Command System; IS 200: ICS for Single Resources and Initial Action Incidents; IS 300; IS 700 National Incident Management System an Introduction; and IS 800: National Response Framework an Introduction. Through an interrelated progression, the student will be exposed to the comprehensive approach of the National Incident Management System. Offered spring semester only.

EMGS 219 - Regulatory Compliance (3 credits)

Provisions of the regulatory agencies comprising Occupational Safety and Health Administration (OSHA), Environmental Protection Agency (EPA) and US Department of Transportation (DOT) as well as state agencies with similar responsibilities require that entities engaged in emergency response provide awareness and adequate training to ensure compliance with a multitude of regulations. This course is an overview of regulatory requirements along with the regulations that are pertinent to the response community. Offered spring semester only.

EMGS 220 - Methods of EMS Tactical Response (3 credits)

This course provides education and training designed to decrease deaths in tactical situations while focusing on managing trauma in the civilian tactical or hazardous environments such as mass casualty, active shooter, hazardous materials, and other incidents outside the normal operating conditions of most emergency medical services (EMS) agencies. Prereq.- EMGS115.
Prerequisite: EMGS115.

EMGS 221 - Emergency Service Management (3 credits)

This course introduces the basic concepts of management theory as applied to various operations specifically related to emergency service organizations. Topics include historical foundations, administration, management, leadership, finance and managing change. Emphasis is placed on aspects of human resources within a context of education and training to achieve critical outcomes. Health and safety responsibilities within regulatory compliance parameters are discussed as are all pertinent laws and regulations that directly impact emergency service organizations. Ethics and public policy conclude the topical discussions to provide awareness for those who are managers or administrators of emergency service organizations.

EMGS 231 - Law for Emergency Services (3 credits)

This course will discuss the legal aspects of emergency service organizations to include; arson law, legal rights and responsibilities of emergency services providers, their officers and related court procedures. Students will learn about specific laws and legal procedures as they relate to both criminal and civil topics and their subsequent relationship to the emergency services community.

EMGS 235 - Security Management (3 credits)

This course provides essential introductory information as it relates to basic security management principles and practices. Discussion provides managerial awareness within the variety of challenges associated with the provision of adequate security measures. Subjects and topics covered will allow students to consider managerial aspects associated with security practices that involve prevention, response, risk assessment, insurance and liability, workplace violence and inappropriate activities of others associated with negative

outcomes. Additional discussion includes critical thinking concepts that will provide an operational competency to mitigate or respond to actions and conditions associated with threats, acts of terror, disasters or catastrophes. Focus within the context of laws, regulations and interfacing with law enforcement will offer insight to the comprehensive topic of security management.

EMGS 255 - First Responder Training (3 credits)

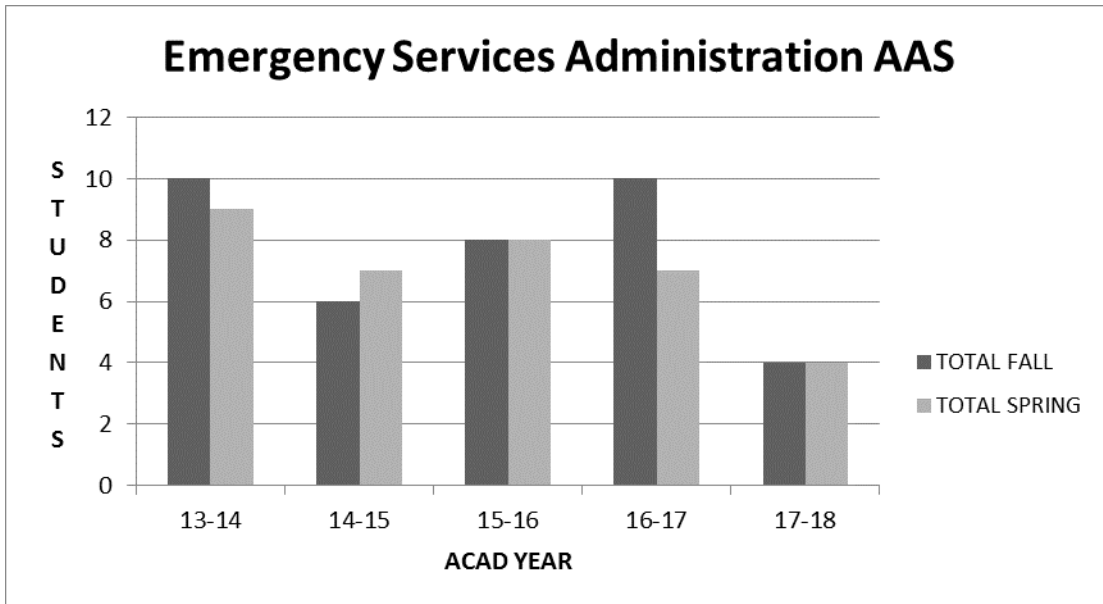
For police, fire, and rescue personnel responding to the scene of injury or illness; procedures used to initiate treatment while awaiting arrival of a higher level of care includes but not limited to CPR, shock and bleeding, and patient survey. Students will be required to carry and maintain accident and health insurance and/or workman's compensation and sign a waiver of liability. Additional course fees: \$13.00.

EMGS 256 - First Responder Stress Awareness and Management (3 credits)

This course provides essential introductory information for first responders as it relates to first responder emotional stress and challenges as a result of functioning within the emergency services. Discussion provides basic awareness within the context of stress management options. Subjects and topics covered will allow responders to utilize information to facilitate coping efforts as emotions are tested within the rigors of life and death scenarios. Further discussion offers insight to the range of emotions experienced by first responders while providing considerations for healing and ultimately essential emotional wellness.

Enrollment

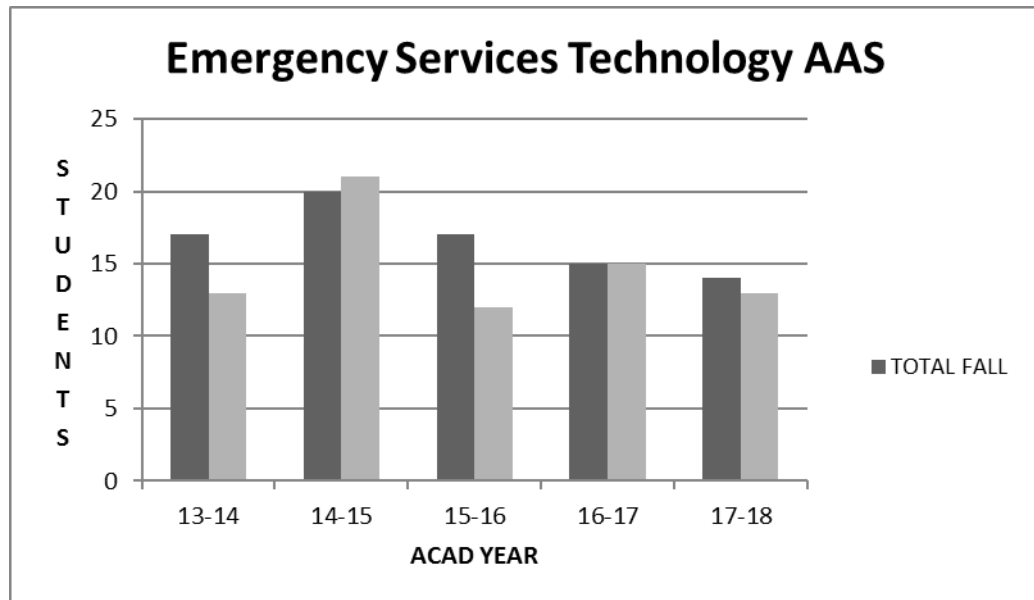
Emergency Services Administration AAS EMMD	TOTAL ENROLLMENT	ACAD	13-14	14-15	15-16	16-17	17-18
		YR					
FALL							
FULL-TIME			4	0	3	5	0
PART-TIME			6	6	5	5	4
TOTAL FALL			10	6	8	10	4
SPRING							
FULL-TIME			1	1	5	3	0
PART-TIME			8	6	3	4	4
TOTAL SPRING			9	7	8	7	4



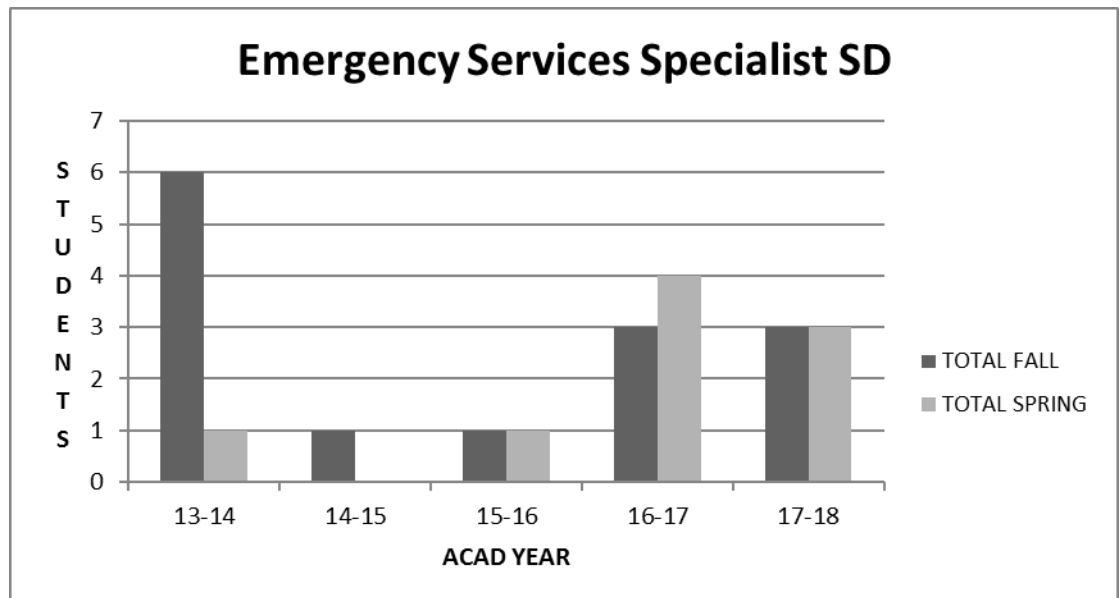
**Emergency Services Technology AAS
EMSD**

**TOTAL
ENROLLMENT**

		ACAD YR	13-14	14-15	15-16	16-17
FALL						
FULL-TIME			7	11	11	4
PART-TIME			10	9	6	11
TOTAL FALL			17	20	17	15
SPRING						
FULL-TIME			5	13	6	4
PART-TIME			8	8	6	11
TOTAL SPRING			13	21	12	15



Emergency Services Specialist SD EMSS		TOTAL ENROLLMENT					
		ACAD YR	13-14	14-15	15-16	16-17	17-18
FALL							
FULL-TIME			0	0	1	3	2
PART-TIME			6	1	0	0	1
TOTAL FALL			6	1	1	3	3
SPRING							
FULL-TIME			0	0	1	3	2
PART-TIME			1	0	0	1	1
TOTAL SPRING			1	0	1	4	3



Financial

ACADEMIC AUDIT FINANCIAL DATA
2017-18

Emergency Services Administration

	FY2018	FY2017	FY2016	FY2015	FY2014
Program Income					
Tuition	13,873	29,168	27,102	13,359	13,873
Local Reimb	2,302	4,786	4,352	2,168	2,302
Operating Reimb	5,257	11,007	7,931	3,755	5,257
Stipend Reimb					
Total Income	21,432	44,961	39,385	19,282	21,432
Program Costs					
Direct Costs	12,291	33,651	32,782	14,643	12,291
Indirect Costs	9,896	19,642	17,817	8,817	9,896
Total Costs	22,187	53,293	50,599	23,460	22,187
FTE	2.87	6.17	5.81	2.99	2.87
Income per FTE	7,472	7,283	6,776	6,456	7,472
Cost per FTE	7,735	8,632	8,705	7,855	7,735
Inst Avg Cost per FTE	7,075	6,703	6,416	6,144	7,075
Rank	48 of 126	33 of 132	17 of 129	20 of 119	48 of 122

**ACADEMIC AUDIT FINANCIAL DATA
2017-18**

Emergency Services Technology Degree

	FY2018	FY2017	FY2016	FY2015	FY2014
Program Income					
Tuition	49,018	52,357	57,973	77,204	49,018
Local Reimb	8,134	8,590	9,310	12,531	8,134
Operating Reimb Stipend Reimb	18,573	19,758	16,964	21,702	18,573
Total Income	75,725	80,705	84,247	111,437	75,725
Program Costs					
Direct Costs	56,105	55,244	67,788	99,250	56,105
Indirect Costs	34,967	35,258	38,111	50,953	34,967
Total Costs	91,072	90,502	105,899	150,203	91,072
FTE	10.13	11.08	12.43	17.26	10.13
Income per FTE	7,472	7,282	6,776	6,456	7,472
Cost per FTE	8,986	8,167	8,517	8,702	8,986
Inst Avg Cost per FTE	7,075	6,703	6,416	6,144	7,075
Rank	31 of 126	40 of 132	20 of 129	13 of 119	31 of 122

**ACADEMIC AUDIT FINANCIAL DATA
2017-18**

SD: Emergency Services Technology - Emergency Services Specialist

	FY2018	FY2017	FY2016	FY2015	FY2014
Program Income					
Tuition	13,318	18,660	4,846	1,214	13,318
Local Reimb	2,210	3,062	778	197	2,210
Operating Reimb Stipend Reimb	5,046	7,042	1,418	341	5,046
Total Income	20,574	28,764	7,042	1,753	20,574
Program Costs					
Direct Costs	18,631	24,820	4,968	947	18,631
Indirect Costs	9,500	12,566	3,186	802	9,500
Total Costs	28,132	37,386	8,153	1,748	28,132
FTE	2.75	3.95	1.04	0.27	2.75
Income per FTE	7,472	7,283	6,775	6,456	7,472
Cost per FTE	10,217	9,466	7,845	6,439	10,217
Inst Avg Cost per FTE	7,075	6,703	6,416	6,144	7,075
Rank	15 of 126	18 of 132	30 of 129	45 of 119	15 of 122

Graduation Rates

Emergency Services Administration	Aug. '12	Aug. '13	Aug. '14	Aug. '15	Aug. '16	Aug. '17
	Dec. '12	Dec. '13	Dec. '14	Dec. '15	Dec. '16	Dec. '17
	May '13	May '14	May '15	May '16	May '17	May '18
# of Graduates	4	3	0	3	3	
employed	3	1	0	2	2	
job hunting	0	0	0	0	1	
continuing ed.	0	1	0	0	0	
other	1	1	0	1	0	
Employed Graduates	3	1	0	2	2	
Additional Data Not Avail.	—	—	—	—	—	—
related	1	0	0	2	1	
unrelated	0	1	0	0	1	
unrelated by choice	2	0	0	0	0	
Median starting salary (if>2 reported)	—	—	—	—	—	—

Emergency Services Technology, Emergency Medicine	Aug. '12	Aug. '13	Aug. '14	Aug. '15	Aug. '16	Aug. '17
	Dec. '12	Dec. '13	Dec. '14	Dec. '15	Dec. '16	Dec. '17
	May '13	May '14	May '15	May '16	May '17	May '18
# of Graduates	0	0	0	0	0	
employed	0	0	0	0	0	
job hunting	0	0	0	0	0	
continuing ed.	0	0	0	0	0	
other	0	0	0	0	0	
Employed Graduates	0	0	0	0	0	
Additional Data Not Avail.	—	—	—	—	—	—
related	0	0	0	0	0	
unrelated	0	0	0	0	0	
unrelated by choice	0	0	0	0	0	
Median starting salary (if>2 reported)	—	—	—	—	—	—

Emergency Services Technology, Fire Technology	Aug. '12	Aug. '13	Aug. '14	Aug. '15	Aug. '16	Aug. '17
	Dec. '12	Dec. '13	Dec. '14	Dec. '15	Dec. '16	Dec. '17
	May '13	May '14	May '15	May '16	May '17	May '18
# of Graduates	0	0	0	0	0	
employed	0	0	0	0	0	
job hunting	0	0	0	0	0	
continuing ed.	0	0	0	0	0	
other	0	0	0	0	0	
Employed Graduates	0	0	0	0	0	
Additional Data Not Avail.	—	—	—	—	—	—
related	0	0	0	0	0	
unrelated	0	0	0	0	0	
unrelated by choice	0	0	0	0	0	
Median starting salary (if>2 reported)	—	—	—	—	—	—

Emergency Services Technology, Security Technology	Aug. '12	Aug. '13	Aug. '14	Aug. '15	Aug. '16	Aug. '17
	Dec. '12	Dec. '13	Dec. '14	Dec. '15	Dec. '16	Dec. '17
	May '13	May '14	May '15	May '16	May '17	May '18
# of Graduates	0	0	0	0	0	
employed	0	0	0	0	0	
job hunting	0	0	0	0	0	
continuing ed.	0	0	0	0	0	
other	0	0	0	0	0	
Employed Graduates	0	0	0	0	0	
Additional Data Not Avail.	—	—	—	—	—	—
related	0	0	0	0	0	
unrelated	0	0	0	0	0	
unrelated by choice	0	0	0	0	0	
Median starting salary (if>2 reported)	—	—	—	—	—	—

SD: Emergency Services Technology - Emergency Services Specialist	Aug. '12	Aug. '13	Aug. '14	Aug. '15	Aug. '16	Aug. '17
	Dec. '12	Dec. '13	Dec. '14	Dec. '15	Dec. '16	Dec. '17
	May '13	May '14	May '15	May '16	May '17	May '18
# of Graduates	0	0	0	0	0	
employed	0	0	0	0	0	
job hunting	0	0	0	0	0	
continuing ed.	0	0	0	0	0	
other	0	0	0	0	0	
Employed Graduates	0	0	0	0	0	
Additional Data Not Avail.	—	—	—	—	—	—
related	0	0	0	0	0	
unrelated	0	0	0	0	0	
unrelated by choice	0	0	0	0	0	
Median starting salary (if>2 reported)	—	—	—	—	—	—

Emergency Services Technology Multi Degree Program Assessment Plan

Program Outcomes	2013-2014	2014-2015	2015-2016	2016-2017
Employ interoperable emergency response and decision making skills to achieve positive outcomes.	EMGS122 - Homeland Security Exercise Evaluation Program with scenario interaction			
Demonstrate functionality as it relates to emergency response information technology.		<i>EMGS118 EMGS207</i> Scenario based evaluation of functional performance per course rubrics		
Operate within Nationally recognized guidelines and or standards as an interoperable emergency first responder.		EMGS218 Attainment of National Incident Management System Requirements and instructor evaluation of student performance per course rubrics		
Employ emergency service and public safety skills as they relate to mitigation, preparedness, response, and recovery operations.			EMGS104 EMGS115 <i>EMGS235</i> Sanctioning PA Commonwealth Agency Job Performance Req. Skill Evaluation Sheets Scenario based evaluation of functional performance per course rubrics	
Develop an interoperable management approach in the various segments of emergency services, Public Safety (Fire/Emergency Medical), & the Private Sector Industry).	EMGS122 Attainment of National Incident Management System Requirements and instructor evaluation of student performance per course rubrics			
Discuss the duties associated with the ethical, moral, and legal concerns related to emergency response environments and be able to apply these responsibilities within the context of expected behavior.				<i>EMGS208 EMGS119</i> EMGS231 Sanctioning PA Commonwealth Agency Job Performance Req. Skill Evaluation Sheets Scenario based evaluation of functional performance per course rubrics

Division: Allied Health and Sciences

Program: Emergency Services Technology 2012- 2017

Combined Degrees: Emergency Services Fire, EMS, Security Technologies

Draft Review: 12-12-17

Program Learning Outcomes and Curriculum Matrix

Introduce = I; Reinforce = R; Emphasize Mastery= E

Outcome	Course	Course	Course	Course	Course	Course	Course	Course
	EMGS104	EMGS105	EMGS109	EMGS115	EMGS151	EMGS201	EMGS221	EMGS231
1. Employ interoperable emergency response and decision making skills to achieve positive outcomes	I, R	R, E	I, R	I, R		I, R	I, R, E	
2. Demonstrate functionality as it relates to emergency response information technology.	I,R	R, E	I	I, R, E	I, R	I,R	R,E	R, E
3. Operate within nationally recognized guidelines and or standards as an interoperable emergency first responder.	I	R	I	I, R		I, R	I, R, E	R,E
4. Employ emergency service and public safety skills as they relate to mitigation, preparedness, response, and recovery operations.	I, R	R	I, R	I, R		I, R	R, E	R
5. Develop an interoperable management approach in the various segments of emergency services, Public Safety (Fire/Emergency Medical), & the Private Sector Industry).	I, R	I, R	I, R	I, R		I, R	I, R,E	R
6. Discuss the duties associated with the ethical, moral, and legal concerns related to emergency response environments and be able to apply these responsibilities within the context of expected behavior.	I, R	I, R	I, R	I, R	I, R	I, R	I, R	I, R,E

Division: Allied Health and Sciences

Program: Emergency Services Technology 2012- 2017

Combined Degrees: Emergency Services Fire, EMS, Security Technologies

Draft Review: 12-12-17

Program Learning Outcomes and Curriculum Matrix

Introduce = I; Reinforce = R; Emphasize Mastery= E

Outcome	Course	Course	Course	Course	Course	Course	Course
** New course offerings	<i>EMGS118</i>	<i>EMGS119</i>	<i>EMGS207</i>	<i>EMGS208</i>	<i>EMGS235</i>	<i>EMGS254</i>	<i>EMGS256</i>
1. Employ interoperable emergency response and decision making skills to achieve positive outcomes	I, R	R, E	I, R	I, R		I, R	I, R, E
2. Demonstrate functionality as it relates to emergency response information technology.	I,R	R, E	I	I, R, E	I, R	I,R	R,E
3. Operate within nationally recognized guidelines and or standards as an interoperable emergency first responder.	I	R	I	I, R		I, R	I, R, E
4. Employ emergency service and public safety skills as they relate to mitigation, preparedness, response, and recovery operations.	I, R	R	I, R	I, R		I, R	R, E
5. Develop an interoperable management approach in the various segments of emergency services, Public Safety (Fire/Emergency Medical), & the Private Sector Industry).	I, R	I, R	I, R	I, R		I, R	I, R,E
6. Discuss the duties associated with the ethical, moral, and legal concerns related to emergency response environments and be able to apply these responsibilities within the context of expected behavior.	I, R	I, R	I, R	I, R	I, R	I, R	I, R

Division: Allied Health and Sciences

**Program: Emergency Services Fire Technology
Emergency Services EMS Technology
Emergency Services Security Technology**

Program Learning Outcome Assessed: **Employ interoperable emergency response and decision making skills to achieve positive outcomes**

Expected Outcome: Ability to interoperate effectively with associated emergency response agencies while making critical decisions to achieve desired incident outcome.

Assessment Method	Results	Recommendations/Action Plan/Follow Up
Homeland Security Exercise Evaluation Program	Assessments are pending interaction with organizations and student participation within the context of the Homeland Security Exercise Evaluation Program	To be determined upon student participation within an exercise utilizing the Homeland Security Exercise Evaluation Program

Program Learning Outcome Assessed: **Demonstrate functionality as it relates to emergency response information technology.**

Expected Outcome: Utilize information technology in various formats and modalities to facilitate incident management and operational performance

Assessment Method	Results	Recommendations/Action Plan/Follow Up
Scenario based evaluation of functional performance per course rubrics	Assessments are pending delivery of technology courses.	To be determined upon delivery of courses and assessment of outcomes.

Program Learning Outcome Assessed: **Operate within Nationally recognized guidelines and or standards as an interoperable emergency first responder.**

Expected Outcome: Operational capacity to function within the guidelines of the Incident Command System while performing within the expectations of the National Incident Management System

Assessment Method	Results	Recommendations/Action Plan/Follow Up
Attainment of National Incident Management System Requirements and instructor evaluation of student performance per course rubrics	Student performance is within expected and prescribed Federal parameters as assessed by instructors.	Continue within Federal parameters for performance assessment.

Program Learning Outcome Assessed: **Employ emergency service and public safety skills as they relate to mitigation, preparedness, response, and recovery operations.**

Expected Outcome: Comprehensive preparedness and performance capability through all phases of emergency management

Assessment Method	Results	Recommendations/Action Plan/Follow Up
Sanctioning PA Commonwealth Agency Job Performance Requirements Skill Evaluation Sheets Scenario based evaluation of functional	All courses conducted receive student evaluation through Commonwealth tests and skill sheets. Pass rate average is approximately 90%.	Continue with Commonwealth tests and skill sheet evaluations.

ANNUAL PROGRAM ASSESSMENT REPORT

performance per course rubrics		
--------------------------------	--	--

Program Learning Outcome Assessed: Develop an interoperable management approach in the various segments of emergency services, Public Safety (Fire/Emergency Medical), & the Private Sector Industry).

Expected Outcome: Operational capacity to function within the guidelines of the Incident Command System while managing various resources and compromising issues associated with private sector interaction

Assessment Method	Results	Recommendations/Action Plan/Follow Up
Attainment of National Incident Management System Requirements and instructor evaluation of student performance per course rubrics	Student performance is within expected and prescribed Federal parameters as assessed by instructors.	Continue within Federal parameters for performance assessment.

Program Learning Outcome Assessed: Discuss the duties associated with the ethical, moral, and legal concerns related to emergency response environments and be able to apply these responsibilities within the context of expected behavior.

Expected Outcome: Perform emergency response functions within ethical functional professional standards

Assessment Method	Results	Recommendations/Action Plan/Follow Up
Sanctioning PA Commonwealth Agency Job Performance Requirements Skill Evaluation Sheets Scenario based evaluation of functional performance per course rubrics	All courses conducted receive student evaluation through Commonwealth tests and skill sheets. Pass rate average is approximately 90%.	Continue with Commonwealth tests and skill sheet evaluations.