Emergency Medical Technology: Paramedic

Degree: A.A.S.
HEGIS Code: 5299
Curriculum Code: 1293
Campus Location: South - Day and Evening Programs
Health Sciences Division
Prerequisite: Basic EMT offered at: North, South

Program Description

The Emergency Medical Technology: Paramedic Program is designed for both the career and volunteer provider. This degree will require students to complete the SUNY general education courses which are available at all SUNY Erie campuses.

This degree will ensure the student completes core development courses in math, English, science, humanities, social science, EMT and other fields to be better rounded students and lifelong learners. The successful completion of the program will enable the student to receive an Associate of Applied Science Degree.

The EMT: Paramedic Program is designed to meet the national standard for Emergency Medical Technology-Paramedic. Paramedics staff pre-hospital advanced life support units, as well as emergency industrial health and safety units. Also, many paramedics assume other roles in clinical settings.

This program’s primary objective is to prepare students to become certified as paramedics and effective components in the delivery of pre-hospital advanced life support.

Full-time (day and evening programs) - the two semester 53-week EMT: Paramedic Program begins in August and concludes the following August. During the first 32 weeks, there is a mixture of lecture and laboratory work in the areas of pathophysiology, advanced airway management, patient assessment, pharmacology, respiratory and cardiology, emergency operations and medical emergencies involving pediatrics and geriatrics. In addition to class work, the student will also perform clinical rotations at the SUNY University at Buffalo Cadaver Lab, Medical Emergency Response Center.
(MERS) dispatch center, emergency departments, operating room, Gates Vascular Institute (GVI) stroke unit and gross anatomy lab at Daemen College.

The last 20 weeks in the classroom continues to include a mixture of on-campus lecture and labs covering trauma, general medical emergencies involving the various organ systems and concluding with intense Advanced Life Support patient simulation labs. Complementing the classroom work are clinical rotations in the GVI Cardiac Cath-EP and stress labs, Women’s & Children’s Hospital of Buffalo obstetrics & emergency departments, Kaleida Highpointe Pediatric Pavilion, adult emergency departments, geriatrics and psychiatry.

The second semester will also allow students to perform their newly acquired skills in the Field Internship course. In conjunction with the patient simulation labs, students will function in the role of a paramedic under the supervision of a Certified Paramedic Preceptor on 911 calls for various ambulance services throughout the region. The program will conclude with student eligibility for the NYSDOH paramedic certification examination.

Accreditation
The Commission on Accreditation of Allied Health Education Programs (CAAHEP) is the largest programmatic accreditor in the Allied health sciences field. Nationally recognized accreditation is available for EMS education through CAAHEP’s Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). Since 2013, the National Registry of EMT’s (NREMT) requires successful completion of an accredited program as an eligibility requirement for National EMS Certification at the paramedic level. Candidates that graduate from a CAAHEP accredited program retain the ability to apply for national EMS certification that will enhance the ability to apply for reciprocity in 44 states.

Commission on Accreditation of Allied Health Education Programs
1361 Park Street
Clearwater, FL 33756
Phone: 727-210-2350
Fax: 727-210-2354
www.caahep.org

Credentials
- American Heart Association Basic CPR credential
- New York State Department of Health, Bureau of Emergency Medical Services, Basic Emergency Medical Technician
- American Heart Association Advanced Cardiac Life Support Provider credential
- American Heart Association Pediatric Advanced Life Support credential
- American Academy of Emergency Physicians-International Trauma Life Support-Advanced Provider credential
- NYS Health Department Certification-EMT Paramedic
- State University of New York EMT Paramedic A.A.S. Degree

Special Admission Requirements/Prerequisites

Basic EMT
- Individuals must be 18 years old to receive New York State Basic EMT certification.
- Basic EMT course is offered at North and South campuses both fall and spring semesters, along with other program electives.
- Satisfactory completion of the Basic EMT certification and field experience does not guarantee admission into the paramedic degree or certificate program.
- In accordance with the requirements of 10 NYCRR Part 800, students must not have been convicted of any misdemeanors of felonies. Students with convictions will be individually reviewed by the New York State Department of Health and may not be automatically barred from certification. The New York State Department of Health will determine if the conviction is applicable under the provisions of Part 800.

Paramedic
- Applicants are strongly encouraged to be an active member of a volunteer, commercial or municipal EMS agency and attain as much EMT patient care field experience (in a non-driving role) as possible prior to entering the program. EMT faculty believes paramedic program success is heavily influenced by the amount of patient care experience the applicant brings with them into the program.
- Students must contact the Emergency Medical Technology Department at South Campus for an interview and preliminary advisement prior to registration.
- Graduation applications are required upon successful completion of the program.

Students must meet all of the following prerequisites:
- maintain a current New York State EMT certification beyond the end date of the paramedic program;
- hold a high school diploma or equivalent;
- for a student who previously attended SUNY Erie, he or she must be in good academic standing; and
- have a physical examination with the appropriate immunizations signed by a physician verifying physical fitness to provide advanced life support.

Required Math Competencies
You must successfully complete the SUNY Erie pretest for math (AARLV2 or higher). If you do not score at the AARLV2 level or higher on the placement test you may:
- enroll in and successfully complete the SUNY Erie non-credit math course MT 003 prior to the start of the EMT: Paramedic Program; or
Basic EMT - Program competencies include the following:

- perform proper Body Substance Isolation;
- properly conduct a patient history, physical examination and vital signs of a medical and trauma patient;
- properly manage medical and trauma patients according to national standard protocols;
- demonstrate manual airway maneuvers;
- administer oxygen therapy utilizing the nasal cannula and non-rebreather mask;
- apply the proper airway management adjuncts to include suctioning oral and nasal airways;
- perform positive pressure ventilation using Bag Valve Mask (BVM) ventilation;
- demonstrate CPR and choking maneuvers and the proper use of an Automatic External Defibrillator (AED) and attain American Heart Association CPR credential at healthcare provider level;
- assist with self-administration of nitroglycerin, and aspirin;
- perform with medical direction the administration of nebulized albuterol;
- properly manage central nervous system injuries to include: spinal immobilization techniques utilizing cervical collars, KED, short and long spine boards and helmet removal techniques;
- properly manage orthopedic emergencies utilizing padded board splints, traction splints, air and vacuum splint and cravats;
- properly manage soft tissue injuries and treatment of shock, demonstrating bleeding control and bandaging techniques and the application of MAST pants;
- demonstrate techniques for assisting with normal and abnormal obstetrical emergencies;
- demonstrate techniques for managing psychiatric emergencies and the application of patient restraints;
- demonstrate proper lifting and moving techniques utilizing a stretcher, stair chair and manual lifts;
- demonstrate proper radio communications techniques;
- provide accurate written documentation in a Patient Care Report (PCR); and
- explain the role of medical direction and performing as a team member.

Advanced EMT - Must perform all the competencies of a Basic EMT and all the following:

- perform peripheral vascular access demonstrating proper utilization of an angiocatheter, vacutainer, leuer adapter, saline trap, Intravenous needle and fluid administration, IM, SQ, IN and IV bolus medication administration;
- perform advanced airway maneuvers to include but not limited to: endotracheal intubation, EOA/EGTA, King airway, Combitube, bougie and chest decompression;
- demonstrate proper application of the Magill forceps during airway management;
- demonstrate patient assessment skills adapted for the geriatric and special needs patients; and
- attain Pediatric Life Support and International Trauma Life Support (ITLS) credential.

Department Notes

Basic EMT - Program competencies include the following:

- study on your own material similar to the content of the pretest and retake the pretest to score at the AARLV2 level.

The math pretest may be waived if you meet one of the following:

- enroll in and successfully complete the SUNY Erie pretest for English (AWRLV3 & ARELV3 or higher). If you do not score at the AWRLV3 & ARELV3 level or higher, you may:
  - own a score of 500 points or higher on the math section;
  - successfully completed a college level math course; or
  - passed the New York State Math Regents examination with a score of 85 percent (B) or higher within the last three years.

Required English Competencies

You must successfully complete the SUNY Erie pretest for English (AWRLV3 & ARELV3 or higher). If you do not score at the AWRLV3 & ARELV3 level or higher, you may:

- own a score of 500 points or greater on the English section of the SAT;
- successfully completed a college level English course; or
- passed the New York State English Regents exam with a score of 85 percent (B) or higher within the last 3 years.

Advanced EMT - Must perform all the competencies of a Basic EMT and all the following:

- perform peripheral vascular access demonstrating proper utilization of an angiocatheter, vacutainer, leuer adapter, saline trap, Intravenous needle and fluid administration, IM, SQ, IN and IV bolus medication administration;
- perform advanced airway maneuvers to include but not limited to: endotracheal intubation, EOA/EGTA, King airway, Combitube, bougie and chest decompression;
- demonstrate proper application of the Magill forceps during airway management;
- demonstrate patient assessment skills adapted for the geriatric and special needs patients; and
- attain Pediatric Life Support and International Trauma Life Support (ITLS) credential.

EMT Paramedic - Must perform all the competencies of a Basic and Advanced EMT and all the following:

- perform the expanded scope patient assessment to include the utilization of the otoscope and ophthalmoscope;
- perform advanced airway techniques to include but not limited to: Laryngeal Mask Airway (LMA), Quicktrac, needle cricothyrotomy and jet ventilation, CPAP/BiPAP, Waveform capnography;
- perform proper electrocardiogram (EKG) monitoring utilizing both the three lead and twelve lead techniques;
- interpret a single lead and twelve lead EKG and initiate proper treatment protocols;
- perform manual defibrillation, synchronized cardioversion, and external cardiac pacing;
- attain American Heart Association Advanced Cardiac Life Support (ACLS) credential;
- attain American Heart Association Pediatric Life Support (PALS) credential;
- calculate drug dosages utilizing the metric system;
- demonstrate proper medication administration techniques to include: IM, SQ, P.O., P.R., I.V. bolus and infusion, ET, SL, buccal, transdermal; and
- contact the EMT Department for the medication list under the paramedic scope of practice.
CURRICULUM
Total Degree Credits: 68.5

First Year, Fall Semester
EG 113  EMT Basic (8 cr)
EN 110  College Composition (3 cr)
MT 112  Survey of Mathematics (3 cr)
PY 111  Biomedical Ethics (3 cr)

First Year, Spring Semester
BI 147  Survey Anatomy and Physiology (3 cr)
EN 111  Composition and Interpretation of Literature (3 cr)
PS 100  General Psychology (3 cr)
HI 106  World Civilizations I (3 cr)

Second Year, Fall Semester
EG 099  Paramedic Introduction, Pathophysiology and Life Span Development (3 cr)
EG 101  Advanced Airway Management Lab (1 cr)
EG 103  Patient Assessment (2 cr)
EG 104  Patient Assessment Lab (1 cr)
EG 105  Pharmacology (2 cr)
EG 106  Pharmacology Lab (1 cr)
EG 107  Respiratory and Cardiology (2 cr)
EG 108  Respiratory and Cardiology Lab (1 cr)
EG 109  Paramedic Clinical I (1 cr)
EG 110  Paramedic Clinical II (1 cr)
EG 200  EMS Operations (3 cr)
EG 204  Medical Emergencies II (2 cr)
EG 205  Medical Emergencies II Lab (1 cr)

Second Year, Spring Semester
EG 201  - Trauma (2 cr)
EG 202  - Trauma Lab (1 cr)
EG 203  - Medical Emergencies I (4 cr)
EG 206  - Paramedic Clinical III (2 cr)
EG 207  - Paramedic Hospital Clinical IV (2.5 cr)
EG 208  - EMT Paramedic Ambulance Field Internship (7 cr)