

EMERGENCY MEDICAL SERVICES

NYS CIP CODE: 51.0904

Program Summary

- Imagine life in the exciting world of EMS!
- Explore the wide variety of career opportunities available today in Emergency Services and Health Care.
- Build a foundation in medical terminology, anatomy and physiology, and pathophysiology.
- Practice hands-on emergency care skills such as patient assessment, treatment, team communication and patient transportation.
- Gain skills necessary for firefighting, auto extrication, and mass casualty incidents.

College Credit Connections

- Bryant and Stratton College
- SUNY Erie
- Trocaire College

Additional Information

- Students will gain certification in:
 - CPR (National)
 - First Aid (National)
 - EMT-B (State, National)
 - ICS 100, 200, 700, 800

Career Pathways

Professional Careers

Physician's Assistant
Physician
Public Health Official
Registered Nurse

Technical Careers

Advanced Emergency Medical Technician
Certified Nursing Assistant
Firefighter
Licensed Practical Nurse
Paramedic
Phlebotomist
Medical Assistant
Surgical Technician

Entry Level Careers

Camp Counselor
Certified Nursing Assistant
Community Medicine
Emergency Medical Dispatcher
Emergency Medical Technician (EMT)
Emergency Room Technician
Lifeguard
Medical Assistant
Special Event Medical Staff
Ski Patrol



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Anatomy and Physiology

- Biological Chemistry and Atomic structure
- Cellular Structure and Processes
- Tissue
- All 11 Body Systems

Medical Terminology

- Basic Medical Abbreviations
- Define Prefixes, Suffixes, and Word Parts
- Spell and Pronounce Medical Terms Accurately

Medicine

- Medical Overview
- Neurology
- Immunology
- Diseases and Disorders
- Basic Medical Abbreviations
- Define Prefixes, Suffixes, and Word Parts
- Spelling and Pronunciation

Preparatory

- EMS Systems
- Research
- Workforce Safety and Wellness
- Documentation
- Therapeutic Communication
- Medical/Legal and Ethics

Pharmacology

- Principles of Pharmacology
- Medication Administration
- Emergency Medications

Patient Assessment

- Scene Size Up
- Primary Assessment
- History Taking
- Secondary Assessment
- Monitoring Devices
- Reassessment

Mathematics

- Weight Conversions
- Concentration Calculations
- Cardiac Output
- Minute Respiratory Volume
- Drug Administration Calculations

Trauma

- Bleeding
- Special Considerations in Trauma
- Environmental Emergencies
- Multisystem Trauma

Special Patient Populations

- Obstetrics
- Neonatal Care
- Pediatrics
- Geriatrics
- Patients with Special Challenges

EMS Operations

- Principles of Safely Operating a Ground Ambulance
- Incident Management
- Multiple Casualty Incidents
- Air Medical
- Vehicle Extrication
- Hazardous Materials
- Terrorism and Disaster

