

Eastern Monroe Career Center

Program Guide



2024 | 2025

EMiCC

Learn
Do **more**
Be



EMCC

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Program Descriptions

This publication is printed at the beginning of the school year and provides descriptions of our programs for the following school year. The information provided in this brochure might be updated during that time. **For the most up-to-date information on our programs and offerings, please visit our webpage at www.monroe.edu/emcc.**

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Mission Statement

The Eastern Monroe Career Center is committed to offering programs that provide high school students the opportunity to develop the skills and attitudes they will need to succeed in their chosen career. EMCC combines real-life learning experiences, academic skills and business and industry partnerships to prepare our graduates for future education and employment endeavors.

Districts we serve:

- Brighton
- East Irondequoit
- East Rochester
- Fairport
- Honeoye Falls-Lima
- Penfield
- Pittsford
- Rush-Henrietta
- Webster
- West Irondequoit



Notice of Non-Discrimination

The Monroe #1 BOCES does not discriminate on the basis of an individual's actual or perceived race, color, creed, religion, religious practice, national origin, ethnic group, sex, gender identity, sexual orientation (the term "sexual orientation" means heterosexuality, homosexuality, bisexuality, or asexuality), political affiliation, age, marital status, military status, veteran status, disability, domestic violence victim status, arrest or conviction record, genetic information or any other basis prohibited by New York state and/or federal non-discrimination laws in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. In addition, students are also afforded protection based on weight.

For more information, please contact our Civil Rights Compliance Officers:

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Frequently Asked Questions

Q&A

What would my schedule look like?

Students attend a half-day session every school day. Schedules are designed so you can still take courses at your home school and participate in extracurricular activities. Session I - 8:20–10:40 AM Session II - 11:45–1:50 PM Your school district will bus you to EMCC.

How many high school credits will I earn?

Three and a half credits are earned for courses in the morning session. Three credits can be earned for courses in the afternoon session.

Students may also earn credit for English, math, science and other courses, while attending EMCC. This information is noted on individual program pages. All students enrolled in advanced level courses are eligible for .5 credit of Career and Financial Management and 1.0 credit of English 12.

Are there special costs?

Certain EMCC programs require uniforms and/or safety equipment. See the **Items to Consider** section on the program pages for more details.

What are NYSED Approved CTE Programs?

NYSED approved CTE programs have gone through a rigorous initial approval process, and they must get reapproved every five years.

Students in NYSED approved programs are eligible to receive a technical endorsement on their high school diploma provided they meet the criteria.

Technical Endorsement Criteria:

- Complete the graduation requirements for any diploma type (Local, Regents, or Regents with advanced designation)
- Complete a NYSED-Approved Career and Technical Education (CTE) program
 - Complete an Employability Profile
 - Complete work experience opportunity
- Pass each part of a 3-part technical assessment associated with the specific CTE program

For more information:

Contact your high school counselor or the EMCC Counseling Office at (585) 387-3816.

www.monroe.edu/emcc

College Credit Options

Many courses at EMCC offer the opportunity to earn college credit in addition to the high school credits you already earn.

What is the difference between dual enrollment and an articulation agreement?

Articulation Agreement

Many programs offer articulation agreements with specific colleges. These agreements allow the student to advance to higher level courses* in their area of study at their chosen college. **These credits are NOT transferable**, which means they only apply to the school with which the agreement was made. Some are at no extra cost to the student, while others charge tuition. Each program varies depending on the sponsoring college. Please check with the EMCC counselors to learn more.

* Based on the successful completion of an EMCC program

Dual Enrollment

EMCC, Monroe Community College (MCC)** and Genesee Community College (GCC) have joined to offer college credit to students while they are attending high school.♦ These credits are transferable to many colleges and universities.

Who teaches the course?

The EMCC instructor teaches and works closely with college faculty to ensure that course outcomes and objectives are reached.

Will I learn different material than the rest of the class?

Courses offering dual enrollment cover the same curriculum and maintain the same high standards for all students. Students are not required to register for dual enrollment.

What is the benefit of dual enrollment?

When a student completes the course, it appears as a true college credit on an MCC or GCC transcript.

What is the cost?

Students pay only 1/3 the regular tuition per credit hour.

** MCC has a minimum class size requirement for a class to be offered.

♦ Dual enrollment offerings listed in this guide are subject to change.

Work Experience

Q&A

EMCC courses provide opportunities for on-the-job work experience. Students who meet eligibility requirements work side-by-side with professionals in the field where they gain valuable knowledge and use the skills learned in their EMCC course.

What work experience options are available?

Job Shadowing

Shadowing allows students to have a short-term experience in the field they are studying. Students gather career information and obtain an awareness of job requirements and duties by observing and speaking with an employer.

Internship

Students are assigned by their teacher to observe and participate (without pay) in work activities related to their technical curriculum. The major objective is for students to acquire expanded learning through exposure to a functionally related work-site with a hands-on experience.

Co-op

Upon successful completion of an internship, students who have mastered entry-level job skills can be placed by their teacher into paid employment that is directly related to their EMCC training. The objective of a co-op is for students to practice more advanced skills in a real employment setting, while still under the guidance of the classroom instructor. Students also benefit from earning a wage while they are learning.



Career Connections

- Drivability Technician
- Heavy Repair Technician
- Light Repair Technician
- Parts Specialist
- Service Manager
- Service Writer
- Undercar Specialist

College Programs

- Automotive Business
- Automotive Engineering
- Automotive Service
- Automotive Technology

Auto Services



High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
- Includes:*
 - 1.0 English 12 (Advanced)
 - 1.0 Technical Science (Basic)

College–Dual Enrollment

(see page 4 for important details)

- Monroe Community College (1 credit)

College–Articulation

- Alfred State College
- Morrisville State College
- Pennsylvania College of Technology
- Universal Technical Institute
- University of Northwestern Ohio

Program Highlights:

In this two-year **NYSED Approved CTE Program** (see page 3), students learn to repair and maintain a variety of vehicles. They locate mechanical, electronic and computer problems through careful diagnosis and perform the necessary repairs using industry equipment. Units of study are delivered in four 20-week modules and are aligned with the Automotive Service Excellence (ASE) requirements. Hands-on experience is attained by servicing actual vehicles in an industry-based work environment.

Successful students:

- Follow safety procedures and practice safe work habits at all times
- Use equipment safely
- Work independently on simulated computer program
- Apply problem solving skills to service procedures
- Work individually and as a team member
- Have sufficient physical ability to manipulate hand tools and equipment
- Are willing to get dirty
- Purchase and wear Dickie-type pants (\$20 or more) and sturdy work boots (\$20 or more).

Units of Study

Basic (Year 1)

- Automotive Safety and Equipment
- Tires and Wheels
- Drum, Disc and Parking Brakes
- Brake and Hydraulic Systems
- Steering Systems
- Suspension Systems
- Piston Engine Operation
- Engine Disassembly/Assembly
- Lubrication and Cooling Systems
- Electrical and Batteries
- Starting, Charging and Ignition Systems

Advanced (Year 2)

- Computer Systems
- Ignition Systems
- Emissions Controls
- Customer Relations
- Wheel Alignment
- Computerized Braking and Steering Systems
- Lighting and Accessory Systems
- HVAC
- Automatic/Manual Transmissions
- Basic Drive Layouts
- Resume and Portfolio Preparation
- Work Experience (see page 5)

Collision Repair Technology



Program Highlights:

In this two-year **NYSED Approved CTE Program** (see page 3), students learn to repair and refinish collision-damaged vehicles. They learn the fundamentals of metal straightening, MIG-welding, detailing, painting, refinishing and customizing, and working with plastic fillers. Students will gain experience with flexible bumper repair, major collision repair, hardware repair and service. Students study and demonstrate competency in writing collision estimates, managing customer paperwork, and tracking jobs. Interactive and professional communication skills are developed.

Basic (Year 1)

- Safety Procedure & SDS
- Communication & Customer Satisfaction
- Vehicle Buffing & Detailing
- Custom Painting & Air Brushing
- Welding for Collision Repair
- Auto Plastic Repair: Basic
- Body Shop Hand & Power Tools
- Automobile Construction
- Basic Auto Electrical Circuits
- Sheet Metal Straightening & Repair
- Refinishing: Color, Sand and Polish
- Auto Body Materials & Fasteners
- Bolt-on Panel Replacement & Adjustment
- Career Opportunities with Shop Layout Design
- 21st Century Skills

Advanced (Year 2)

- Safety Procedure
- Vehicle Damage Estimating
- Adv. Spray Technique & Blending
- Remove & Install Auto Body Parts
- Principles of Sectioning
- Bonding & Adhesive Technology
- Diagnosing Major Collision
- Unibody & Frame Repair Basics
- Plastic Repair
- Color Matching
- How to Start a Career
- Work Experience (see page 5)

Connections

Career Connections

- Body Shop Manager/ Paint Shop Manager/Production Manager
- Collision Shop Owner/ Entrepreneur
- Detailer
- Frame/Unibody Technician/Sheet Metal Technician
- Insurance Claim Representative
- Paint Sales and Distribution/ Equipment Sales
- Paint Technician
- Parts Distribution

College Programs

- Applied Science in Collision Repair
- Automotive Service/ Automotive Parts Management
- Automotive Technology Management
- Classic Car Restoration

High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
Includes:
 - 1.0 English 12 (Advanced)
 - 1.0 Technical Science (Advanced)

College-Articulation

- Alfred State College
- Erie Community College
- Morrisville State College
- Pennsylvania College of Technology (credit by evaluation)
- Universal Technical Institute

Credit

Items to Consider

Successful students:

- Follow safety procedures and practice safe work habits at all times
- Pay attention to detail to meet core competencies
- Work both individually and as a team member
- Apply problem solving skills to service procedures
- Use fine motor skills; fine-finger dexterity a plus.

Career Connections

- Residential and Commercial Construction
- Estimator
- Exterior Siding
- Finish Carpenter
- Foreman
- General Contractor
- Mason
- Remodeler
- Roofer
- Rough Carpenter

College Programs

- Architectural Technology
- Carpentry
- Construction Technology
- Residential Construction
- Wood Technology

High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
Includes:
 - 1.0 English 12 (Advanced)
 - 1.0 Technical Math (Advanced)

College–Articulation

- Alfred State College
- Pennsylvania College of Technology (credit by evaluation)

Successful students:

- Follow safety procedures and practice safe work habits at all times
- Work inside/outside and at various heights
- Work with hand and power tools
- Utilize resource and reference materials for effective communication
- Compute and utilize basic mathematical operations with whole numbers, fractions, decimals and percentages; perform linear measurements
- Use equipment safely as they participate in class
- Bring work clothing, as clothing may become soiled during construction projects
- Purchase and wear a Construction Trades work shirt (\$13) and sturdy work boots (\$20 or more).

Construction Trades

Program Highlights:

In this two-year **NYSED Approved CTE Program** (see page 3), students learn the fundamentals of residential construction from footings to roof installation. First year students will focus on the principles and concepts of wall, floor and roof framing along with windows, doors, siding and roofing. Second year students will learn masonry including brick, block, and foundation building. After a small foundation is constructed, students will frame a floor and complete the rough plumbing for a residential bathroom. Second year students will have the opportunity to participate in a paid co-op for up to eight weeks, with a reputable construction company.



Units of Study

Basic (Year 1)

- Introduction to Construction Trades
- Hand and Power Tools
- OSHA 10
- Intro Framing
- Intro Drywall
- Intro to Print Reading
- Masonry Brick and Block
- Floor Framing
- Stairs
- Wall Framing
- Drywall
- Flooring
- Trim

Advanced (Year 2)

- (Large Shed Project)
- Print Reading
 - Floor Framing
 - Wall Framing
 - Roof Framing
 - Roofing
 - Windows/Doors
 - Siding
 - Estimating Materials
 - Resume Building with Job Interview
 - Portfolio
 - Work Experience (10 week co-op)

Trade Electricity

Program Highlights:

Students interested in a future as an electrician participate in this two-year **NYSED Approved CTE Program** (see page 3) to learn how to control electricity and to run modern technology. Basic year students study single-phase power systems. They learn to install electrical equipment, which meets industry standards for housing and small business applications, as well as the skill to troubleshoot electrical issues they encounter. Students also examine emerging power systems such as solar, wind, and hybrid technologies. Second-year students study three-phase power systems, conduit installations and special systems installed in commercial and industrial applications such as fire alarm, controls, and low voltage technology. Second-year students may attend a co-op with a local electrical contractor working in the field to attain valuable on-the-job experience while getting paid and earning credit.



Connections

Career Connections

- Electrician
- Electrician's Helper
- Electrical Apprentice
- Electrical Inspector
- Electrical Lineperson
- Industrial Electrician
- Residential Electrician
- Solar/Wind Technician

College Programs

- Construction and Maintenance Electrician
- Electrical Engineering Technology
- Electrical Technology

High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
Includes:
 - 1.0 English 12 (Advanced)
 - 1.0 Technical Math (Advanced)

College–Articulation

- Alfred State College
- Pennsylvania College of Technology (credit by evaluation)

Credit

Units of Study

Basic (Year 1)

Residential Electricity

- Basic Electrical Theory
- Ohm's and Watt's Law
- Residential Wiring
- National Electrical Code (NEC) Basics
- Safety Procedures
- OSHA 10 Hour Course
- Personal Protective Equipment (PPE)
- NCCER Core Credit
- Print Reading
- Hand and Power Tool Knowledge

Advanced (Year 2)

Industrial/Commercial Electricity

- Electrical Theory
- Commercial Wiring
- National Electrical Code (NEC)
- Personal Protective Equipment (PPE)
- Conduit Installation
- Three Phase Installations
- Special Systems
- NCCER Level 1 Credit
- Complex Circuits, Controls
- Work Experience (see page 5)

Items to Consider

Successful students:

- Follow safety procedures and practice safe work habits at all times
- Work both individually and as a team member
- Use hand and power tools
- Troubleshoot electrical problems
- Read at or above a 9th grade level
- Purchase and wear a Trade Electricity work shirt (\$15) and safety toe work boots (\$25 or more), as well as purchase a non-contact voltage tester (approximately \$15–\$20).

Career Connections

- Animator
- Art Director
- Art Educator
- Art Therapist
- Exhibit/Environmental Designer
- Fine Artist
- Graphic Designer
- Illustrator
- Industrial Designer
- Interior Designer
- New Media Designer
- Photographer

College Programs

- Advertising Design
- Animation
- Digital Imaging
- Fine Art
- Graphic Design
- Illustration
- New Media/Multimedia
- Photography

Visual Communication & Photography



High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
Includes:
 - 1.0 English 12 (Advanced)

College–Dual Enrollment

- (see page 4 for important details)
- Monroe Community College (3 credits)

Program Highlights:

In this two-year **NYSED Approved CTE Program** (see page 3), students work with a variety of photographic equipment, as well as traditional and digital imaging software from the Adobe Creative Suite in a Mac-based environment. With an emphasis on technical skill and visual problem solving, students explore and develop their creative voice. During the basic year, students acquire a comprehensive foundation of photographic and graphic design skills. The advanced year sees students refine and apply their skills in projects within the community and for a variety of outside clients. Students who successfully complete the program will be prepared for further study at the college level or entry-level positions in the industry.

Successful students:

- Thrive in a deadline-driven environment
- Accept and offer constructive criticism through the critique process
- Generate creative solutions to client-driven products
- Balance technical skills with concept development

Note:

- A post-secondary degree is generally required for employment in this field
- 12th grade students with portfolios and extensive experience in related courses may qualify for placement in the Advanced Course.

Units of Study

Basic (Year 1)

- Digital SLR Basic Techniques
- Design Process
- Layout & Composition
- Digital Image Editing
- Typography
- Color Theory
- Drawing & Illustration Techniques
- Portraiture
- Portfolio Development
- Career Exploration

Advanced (Year 2)

- Advanced Camera Techniques
- Workflow & File Management
- Copyright, Appropriation & Contracts
- Documentary Photography
- Fashion Photography
- Studio Lighting
- Advanced Typography & Layout
- Branding & Logo Design
- Basic Video Production
- Professional Communication
- Portfolio Development
- Work Experience (see page 5)

Culinary Arts



Program Highlights:

In this two-year **NYSED Approved CTE Program** (see page 3), students learn about the fast-paced careers of the food service industry. Students gain experience in both front- and back-of-the-house operations. Students begin by developing their knife skills and using appropriate cooking methods for different foods. Opportunity is provided for students to learn safe methods of food handling and storage through the ServSafe program. Initial food production is small scale. Students graduate to planning and production for a class-run restaurant, Three Seasons. Internships with other professionals in the field extend student's learning experience. Students develop both individual and team culinary skills.

Units of Study

Basic (Year 1)

- Baking
- Fruits & Vegetables
- Salads & Garnishes
- Sandwiches & Breakfast Foods
- Quick Breads
- Meat, Poultry & Seafood
- Stock, Soups and Sauces
- Pasta, Potatoes and Grains
- Yeast Breads
- Pies & Cakes
- International Foods

Advanced (Year 2)

- ServSafe®
- Purchasing & Inventory
- Cost Control
- Global Cuisine
- Marketing
- Restaurant Production
- Portfolio
- Restaurant Project
- Large Quantity Food Preparation
- Work Experience (see page 5)

Items to Consider

Successful students:

- Work within the Board of Health regulations
- Follow safety procedures and practice safe work habits at all times
- Work safely with knives and other potentially dangerous equipment
- Work cooperatively within a team
- Work long hours on feet in hot and cramped areas
- Are physically fit, as foodservice is a strenuous and physically demanding job
- Wear a chef coat, pants and hat
- Purchase hat (approximately \$15)

Credit

High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
Includes:
 - 1.0 English 12 (Advanced)
 - 1.0 Technical Math (Advanced)

College–Dual Enrollment

- (see page 4 for important details)
- Monroe Community College (8 credits)

College–Articulation

- Johnson and Wales (FAST)
- Monroe Community College (ServSafe®)

Connections

Career Connections

- Dietician
- Dining-Room Manager
- Executive Chef
- Food Production Manager
- Food Technologist
- Kitchen Assistant
- Nutritionist
- Pastry Chef/Baker

College Programs

- Executive Chef
- Food and Beverage Director
- Food Management
- Food Production Manager
- Food Service Administration
- Food Technologist
- Hotel/Restaurant Management
- Nutrition and Dietetics
- Sous Chef

Career Connections

- Camp Director
- Camp Counselor
- Early Childhood Professional (Infants, Todders, Preschool)
- Nanny
- Preschool Teacher (Assistant Teacher or Nursery School)

College Programs

- Early Childhood Education
- Elementary Education
- Human Services
- Liberal Arts and Sciences
- Special Education

High School Credit

- 4.0 CTE (max)
Includes:
 - 1.0 English 12 for seniors

College–Dual Enrollment

- (see page 4 for important details)
- Monroe Community College (3 credits)

Successful students:

- Practice good judgment while caring for young children
- Display energy and enthusiasm with young children
- Have the ability to communicate in a mature manner with parents and education professionals
- Work both individually and as a team member
- Meet health and safety requirements while working with young children
- Meet OCFS requirements for volunteer work/employment (physical, fingerprint and background check).

Childcare Professions



Program Highlights:

This one-year **NYSED Approved CTE Program** (see page 3) allows high school juniors/seniors to explore careers in childcare. Students will begin the work towards earning the Child Development Associate (CDA) certificate. Students will gain real-world experience working in the Teens & Tots Preschool and in the East Rochester Elementary school. Qualified students may also gain experience in a community childcare setting.

Units of Study

PM Session Only

- Professionalism
- Child Development
- Health & Safety
- Self
- Guidance
- Environment
- Creative Development
- Physical Development
- Families
- Observation, Documentation & Assessment
- Cognitive Development
- Social/Emotional Development

Criminal Justice



Program Highlights:

Through a blending of rigorous academics and experiential activities, students in this two-year **NYSED Approved CTE Program** (see page 3) explore the history of law enforcement and develop an understanding of civil and criminal law. Students review court cases and outcomes as they relate to law enforcement at the local, state and national level. Students use forensic science as a means to investigate simulated crime scenes. Guest speakers from the criminal justice field and visits to numerous agencies deepen the student's understanding of this career field.

Students taking this program are encouraged to get the COVID-19 vaccine. It is not *required* at this time. However, not being vaccinated may impact our ability to place students on internship.

Units of Study

Basic (Year 1)

- Investigations
- Community Policing
- NYS Criminal Law
- Mock Trials
- Corrections
- Forensic Science Investigation
- Crime Scene Investigation
- Types of Crime
- Use of Force
- Police Concepts and Skills

Advanced (Year 2)

- Search and Arrest Procedures
- Traffic Stops
- Juvenile Justice
- Career Opportunities
- Crisis Intervention
- Current Issues in Law Enforcement
- NYS Security Guard
- CPR and First Aid
- Court Systems
- Work Experience (see page 5)

Connections

Career Connections

- Attorney
- Corrections Officer
- Court Clerk
- Crime Scene Investigator
- Forensic Scientist
- Judge
- Law Enforcement Officer
- Private Security Officer
- Probation/Parole Officer
- Social Work

College Programs

- Criminal Justice
- Criminology
- Forensic Science
- Political Science
- Psychology

High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
Includes:
 - 1.0 English 12 (Advanced)
 - 1.0 Technical Science (Basic)
 - 0.5 Participation in Government (Advanced)

College-Dual Enrollment

(see page 4 for important details)

- Monroe Community College (9 credits*)

* In order to take CRJ101-Intro to Criminal Justice (3 credits), student must have a high school GPA of 80 or higher.

Credit

Items to Consider

Successful students:

- Possess strong academic skills, particularly in written and oral communication
- Follow proper protocol and procedures
- Possess problem-solving skills
- Utilize critical thinking skills
- Demonstrate leadership skills.

Career Connections

- Teacher (Pre-k–12)
- School Related Professional (SLP, OT, PT, SPED, Principal, Counselor, etc.)

College Programs

- Early Childhood Education
- Childhood Education
- Adolescent Education
- Special Education
- Occupational Therapy
- Communication Sciences and Disorders

High School Credit

- 4.0 CTE (max)
Includes:
 - English 12

College–Dual Enrollment

- (see page 4 for important details)
- Monroe Community College (3 credits)

Successful students:

- Complete an application and are selected for the program
- Have a high school attendance rate in excess of 90%
- Respect the confidentiality necessary in a school setting
- Practice good judgment
- Display energy and enthusiasm
- Have the ability to communicate in a mature manner with parents and education professionals
- Work both individually and as a team member
- Meet health and safety requirements while working with young children
- Want to work in a school setting
- Plan to attend 2 or 4-year college to pursue a career in the education professions
- Are entering their senior year in September

New Vision Education Professions

Program Highlights:

This one-year program allows high school seniors the opportunity to explore careers in education through a partnership with East Rochester (ER) school district. Students participate in rotations in a variety of ER classrooms, as well as in the Teens and Tots preschool. Students in the program begin the work toward completing New York State Teacher Assistant I certification requirements and gain an understanding of the rigor and requirements necessary to work in the field of education.



Units of Study

Seniors Only (AM Session)

- Introduction to the Teaching Profession
- Issues in Child Development and Health
- Foundations of Special Education
- Developmentally Appropriate Practice
- Performance and Presentation Skills for Educators
- Technology in Education
- Teaching Tolerance
- Foundations of Education
- NYS Teacher Assistant 1 Curriculum

Emergency Services

at Perinton Volunteer Ambulance



Program Highlights:

This two-year **NYSED Approved CTE Program** (see page 3) provides students the opportunity to develop knowledge and skills in fire protection technology, fire safety, emergency medical care, and radio dispatch. Students explore these professions through a variety of guest lecturers and site visitations. In the first year, students earn CPR certification and take the NYS Certified First Responder certification exam. The purpose of the second-year course is to prepare students to participate in an extensive field internship and take the NYS EMT-Basic (EMT-B) certification exam.

COVID vaccine may be required for internship.

In order for EMCC to be able to offer the EMT-B training program, we are required to have a course sponsor. Our course sponsor is **Monroe Community College (MCC)**. In accordance with MCC course policies, in order to be eligible to participate in an internship and sit for the NYS EMT-B certification exam, students **must**:

- **Maintain a minimum of a 70% class average**
- **Have 100% attendance**
- **Register and pay for the associated dual enrollment course:**
 - Certified First Responder—EMS 101 (3 Credits)
 - Emergency Medical Technician—EMS 110 (6 credits)
 - Principles of Fire Emergency Services—FPT 100 (3 credits)

Basic (Year 1)

NYS Certified First Responder

- Basic Life Support CPR/AED
- Patient Assessments & Treatment
- EMS Operations

Intro to Fire Protection Technology

- Chemistry & Physics of Fire
- Fire Dept. Facilities
- Fire Apparatus
- FPT Career Opportunities
- Radio Dispatch Training

Advanced (Year 2)

NYS Emergency Medical Technician Course

- Traumatic Injuries
- Advanced Airway Management
- Anatomy & Physiology
- Advanced Medical Assessments
- General Pharmacology
- Medical Legal & Ethical Issues
- EMS Response to Terrorism
- Bleeding & Shock
- Pediatrics
- Emergency Extrications
- Work Experience (see page 5)

Connections

Career Connections

- Certified First Responder
- Emergency Dispatcher
- Emergency Medical Technician
- Firefighter
- Nurse
- Paramedic
- Patient Care Technician
- Physician
- Physician's Assistant
- Police Officer

College Programs

- Emergency Medical Dispatcher
- Environmental Engineering
- Fire Protection Technology
- Hospital Technician
- Mortician
- Nurse Practitioner
- Nursing
- Paramedic
- Pre-Medicine
- Respiratory Therapist

High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
- Includes:*
 - 1.0 English 12 (Advanced)
 - 1.0 Technical Science (Advanced)
 - 0.5 Health (Basic)

College–Dual Enrollment

- (see page 4 for important details)
- Monroe Community College (12 credits)

College–Articulation

- Finger Lakes Community College

Credit

Successful students:

- Read at the 10th grade level
- Have excellent school attendance (ALL units of study must be completed as per NYS Health Dept. guidelines)
- Do regularly required academic assignments
- Have the physical abilities required of the career field (mobility, vision etc.)
- Exhibit a high level of maturity
- Have a strong desire to work in the health care field
- Purchase and wear an EMS uniform (EMS shirt, pants and work boots) the first year. Uniform can be worn both years (\$100 or more combined cost)
- Receive the required vaccinations for internship placements; student internship placement sites will not accept religious exemptions as a substitute for vaccination records.

Items to Consider

Units of Study

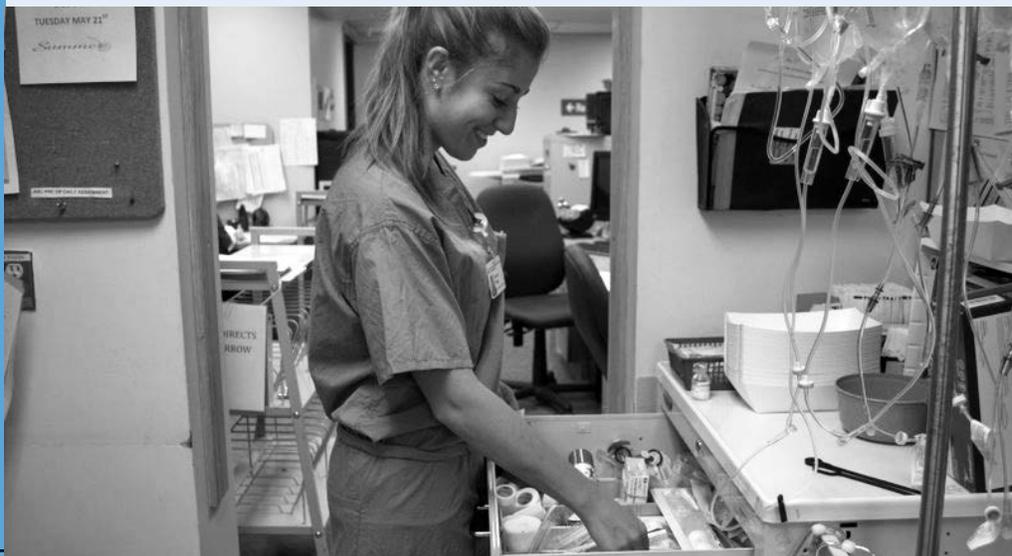
Career Connections

- Emergency Medical Technician
- Hospice Care
- Nursing
- Nutritionist/Dietitian
- Occupational Therapist
- Patient Care Technician/Personal Care Aides
- Pharmacy Technician
- Physical Therapist
- Physician
- Physicians Assistant
- Psychology
- Radiologic Technician
- Recreation Therapist
- Social Work
- Speech Pathology

College Programs

- Health and Human Services
- Medical Lab Assistant
- Nursing
- Nutrition
- Occupational Therapy
- Physical Therapy
- Physicians Assistant
- Pre-Med
- Recreation Therapy
- Social Work
- Speech Pathology

New Vision Medical Careers



High School Credit

- English 12
- 0.5 Economics
- 0.5 Participation in Government
- 3.0 CTE
(5.0 Total)

Optional:

0.5 Health credit available
(Reduces CTE credit to 2.5 credits)

College–Dual Enrollment

(see page 4 for important details)

- Monroe Community College (12 credits)

Program Highlights:

This one-year program allows high school seniors to explore careers in health care through partnerships with Rochester General Hospital and St. Ann’s Community. Students participate in a rigorous academic program with hands-on experience in medical careers. Students participate in four 10-week rotations in different medical departments of the health care facility. This placement provides the student with an in-depth look at the responsibilities of patient care in a health care facility.

Students participating in this program must meet all medical requirements for working in a health care facility (hospital and nursing home).

Successful students:

- Complete an application and are selected for the program
- Exhibit a high level of maturity and responsibility
- Are in good academic standing with strong math and science skills
- Have a strong desire to work in the health care field
- Have a high school attendance rate in excess of 90%
- Plan to pursue post secondary education
- Respect the confidentiality necessary in a health care setting
- Are entering their senior year in September
- Purchase and wear scrubs (\$40 or more per pair).

Units of Study

- Communication/Interpersonal Skills
- Community Service
- Health Care Economics
- Infection Control
- Leadership Skills
- Medical Ethics
- Medical Terminology
- Patient Care Skills
- Public Health Care Policies
- Reading/Writing Intensive
- Team Work/Problem Solving
- Work Experience (see page 5)

Clinical Rotations May Include:

- Ambulatory Surgery Center
- Clinical Research
- Clinical Nutrition
- Emergency Department
- Hospice/Palliative Care
- Maternal and Child Health
- Medical/Surgical Intensive Care
- Nursing/Patient Care
- Nursing Units
- Occupational Therapy
- Orthopedics
- Pediatrics
- Pharmacy
- Physical Medicine
- Physical Therapy
- Radiology
- Recreational Therapy
- Social Work
- Speech Pathology

Health Careers



Connections

Career Connections

- Dietician
- Emergency Care Specialist
- Home Health Aide
- Licensed Practical Nurse
- Medical Records
- Nursing Assistant
- Patient Care Technician
- Pharmacy Technician
- Physician Assistant
- Recreational Therapy
- Registered Nurse
- Transcriptionist

College Programs

- Hospital Technician
- Medical Technology
- Nuclear Medicine Technology
- Nurse Practitioner
- Nursing
- Nutrition and Dietetics
- Occupational Therapist
- Physical Therapist
- Physician Assistant
- Pre-dentistry
- Pre-medicine
- Radiology Technology
- Ultrasound

Program Highlights:

In this two-year **NYSED Approved CTE Program** (see page 3), students are provided with an exploratory experience of emerging health occupations. Students study the concept of “Life Cycle” and identify factors contributing to positive personal health. The basic course integrates the NYS High School health curriculum. In the advanced year, students develop the skills to obtain entry-level employment in the health care field. This program is also designed to help students enhance their leadership, communication and management skills, and professional behavior is embedded throughout. After successful completion of the program, students will have met the clinical and classroom requirements for the NYS Nursing Assistant exam.

Students participating in this program must meet all medical requirements for working in a health care facility (hospital and nursing home).

Basic (Year 1)

- Intro to Health Occupations
- Legal & Ethical Responsibilities
- Safety
- Leadership & Communication
- Personal Health & Wellness
- Life Cycle
- Microbes & the Environment
- The Human Body
- Emergency Care
- Computer Applications in Health Careers
- Clinical Experiences

Advanced (Year 2)

- Personal Care
- Intro to Nurse Assisting
- Lifting, Moving, Transporting
- Communicating with Clients
- Infection Control
- Supervised Clinical Experiences
- Elimination Procedures
- Human Sexuality
- Nutrition & Diet Therapy
- Circulatory & Respiratory Care
- Pre- and Post-Operative Care
- Life Changes & Adaptations
- Procedures in the Health Care Facility
- Work Experience (see page 5)

High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
Includes:
 - 1.0 English 12 (Advanced)
 - 1.0 Technical Science (Advanced)
 - 0.5 Health (Basic)

College–Articulation

- Finger Lakes Community College
- Wayne Finger Lakes BOCES LPN program

Credit

Successful students:

- Have an interest in working in close physical contact with a wide variety of people
- Follow Infection Control Procedures and other health care industry standards (safety, hygiene, and ethical standards)
- Communicate effectively in a health care facility
- Do regularly required academic assignments
- Perform hands-on skills in both the classroom and clinical settings under the supervision of a registered nurse
- Have the physical abilities required of the career field (mobility, vision, etc.)
- Purchase and wear a uniform and white leather shoes (\$50 or more combined cost).

Units of Study

Items to Consider

Career Connections

- Hair Stylist
- Esthetician
- Nail Tech
- Instructor
- Product Educator
- Salon Manager
- Salon Owner
- Make-up Artist

Cosmetology



High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
 - 1.0 English 12 (Advanced)
 - 1.0 Technical Science (Basic)

College–Articulation

- Bryant and Stratton

Successful students:

- Must maintain excellent attendance
- Must complete 1000 hours of theory and practice
- Communicate effectively
- Demonstrate time management
- Have good organizational skills
- Follow written and verbal directions
- Have bi-manual ability, fine finger dexterity, ability to work with multiple materials/tools simultaneously
- Are required to participate in student-to-student clinics, as models and operators to develop consultation and real life skills for credit
- Must be able to work as a team and independently in a large group setting
- Must be able to read at grade level for advanced technical vocabulary and comprehension of content
- Must practice hands on skills outside of class to build skills
- Work in close physical contact with people
- Are creative and artistically inclined
- Purchase and wear a smock (approximately \$25) and safe shoes.

Program Highlights:

In this two-year **NYSED Approved CTE Program** (see page 3), students learn the latest techniques in hair cutting, styling, and chemical services, as well as nail and skin care. Students practice cuts and styles on mannequins and classmates, before offering services to customers in our school-sponsored salon. The curriculum includes skill development in the areas of communication, organization, and time management, which are essential to success in the industry. Students attend the program for two years, including a summer session between the junior and senior year. Students need to complete 1,000 hours of theory and practice before they are eligible to take the NYS Cosmetology Licensing Exam.

Units of Study

Basic (Year 1)

- Professional Requirements
- Safety and Health
- Hair Styling
- Hair Cutting and Shaping
- Shampoo, Rinses, Conditioners and Treatments
- Nail Care and Procedures
- Anatomy and Physiology
- Properties of the Scalp
- Hair Structures
- Chemical Restructuring
- Skin Care and Procedures

Advanced (Year 2)

- Artificial Nails
- State Board Preparation
- Advanced Hairstyling
- Chemical Hair Straightening
- Tinting and Bleaching
- Temporary Hair Removal
- Salon Management and Ownership
- Hair Extension and Wigs
- Retail Services
- Work Experience (see page 5)

Nail and Waxing Specialty



Program Highlights:

Nail and Waxing Specialty is a perfect course for students interested in launching a career in the beauty industry, but are not interested in hair styling. In this 2-year **NYSED Approved CTE Program** (see page 3), students will have an in-depth focus on nails, temporary hair removal methods, and makeup. Students will learn natural nail care, manicures, pedicures, as well as a variety of artificial nail enhancement techniques, proper hair removal procedures including tweezing and waxing of the face and body, and beginner to advanced makeup techniques and applications. In year one, when students are safely and competently able to perform skills, they will be able to practice on patrons in a clinical setting. In year two, students will continue to practice and enhance their knowledge and skills with a weekly clinic. Upon successful completion of the course, students will be prepared to sit for the New York State Licensing Exams in Nail Specialty and Waxing Specialty. Students must complete 250 hours of theory and practice in Nail Specialty and 75 hours of theory and practice in Waxing Specialty, as well as be 17 years of age at the time of testing to be eligible. Students will also create a portfolio of work.

Units of Study

- Salon Safety and Health
- Infection Control and Bacteriology
- Proper Filing, Shaping, and Polishing
- History and Career Opportunities
- Natural Nails (Manicures and Pedicures)
- Anatomy and Physiology of the Arm, Hand, Leg, and Foot
- Massage of the Arm, Hand, Leg, Foot
- Client Consultation
- Basic Makeup Application
- Business Practices, Job Skills, Retailing
- Nail and Skin Structure, Disease, and Disorders
- Tip Application and Fabric Nail Wraps
- Hard and Soft UV Gel Overlays and Sculpting
- Acrylic Nail Enhancements (Tips and Forms)
- Latest in Nail Enhancement Technologies
- Manual Tweezing, Hard, and Soft Waxing
- Hair Structure, Function, and Growth
- Nail Art, Color Theory, and Design
- Advanced Makeup Techniques
- Portfolio Construction

Connections

Career Connections

- Nail Technician
- Product Educator
- Salon Owner
- Salon Manager
- Salon Receptionist
- Nail Care Product Educator
- Product Salesperson
- Distributor Sales Representative
- Waxing Specialist

Post-secondary Programs

- Business Management
- Medical Nail Technician
- Marketing and Sales
- Certified Master Pedicurist

Credit

High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
Includes:
 - 1.0 English 12 (Advanced)
 - 1.0 Technical Science (Basic)

College–Articulation

- Bryant and Stratton

Items to Consider

Successful students:

- Complete 325 hours of theory and practice
- Maintain excellent attendance
- Exhibit initiative, creativity, artistic abilities
- Have proficient fine-motor skills and attention to detail
- Enjoy working closely with people in a salon environment
- Are organized, motivated, and able to follow series of directions
- Participate in student-to-student clinic as both client and technician
- Communicate professionally and effectively with others
- Enjoy science as it relates to the skin, hands, and feet
- Purchase and wear a smock daily (approx. \$25) and safe footwear

Career Connections

- Computer Repair Specialist
- Help Desk Technician
- System Analyst/
Computer Scientist Trainee
- Telecommunications
Technician

College Programs

- Computer Information
Systems
- Computer Repair Technology
- Computer Science
- Cyber Security
- Networking Technology
- Programming and Systems

High School Credit

- 4.0 CTE (max)—
Only offered in the morning
Includes:
 - 1.0 English 12 (for seniors)

College–Dual Enrollment

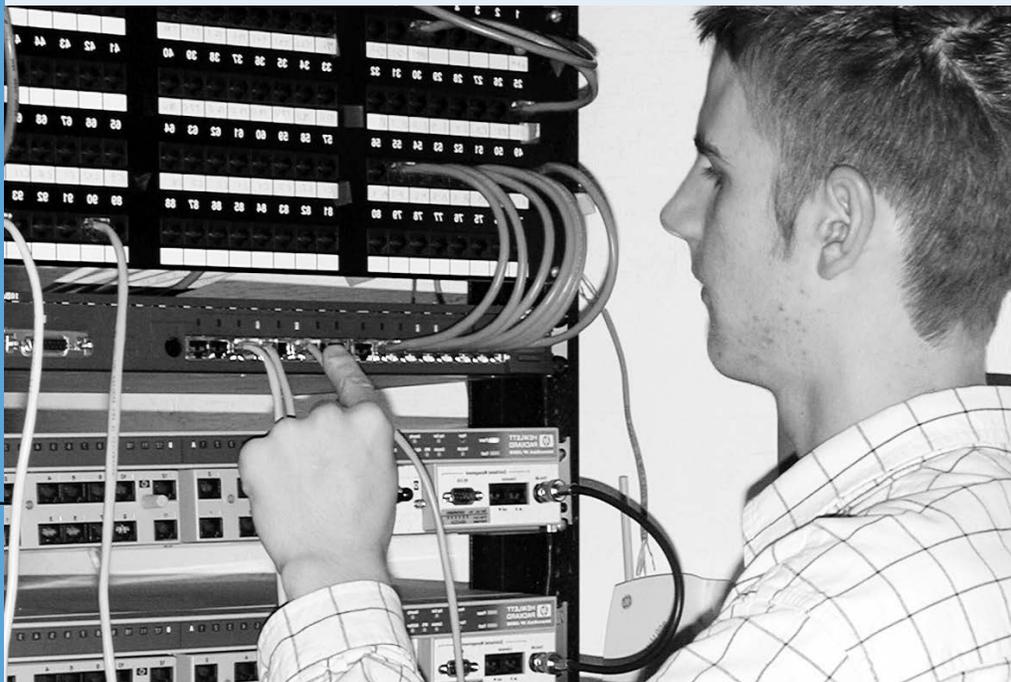
- (see page 4 for important details)
- Genesee Community College
(4 credits)

Successful students:

- Work independently
- Possess strong personal
time management skills
- Work online to learn content
- Work comfortably with
a variety of technology
systems
- Have good organizational
skills and are able to follow
computer schematics
- Have bi-manual ability, fine
finger dexterity, ability to
work with multiple materials/
tools at one time.

CISCO

Networking Academy

**Program Highlights:**

In this one-year **NYSED Approved Program** (see page 3), students learn skills in the areas of basic network cabling, network security, wireless implementation and advanced routing and design. Students work independently as they acquire the skills necessary to become CISCO certified. Students need to develop and demonstrate strong personal time-management skills and problem-solving skills.

Advanced Network Technician

Stand alone 1 year course for those with networking background

Units of Study**Networking Overview
(Network+, CCST, and
CCNA certifications)**

- OSI Model and
Industry Standards
- Network Topologies
- IP Addressing, Including
Subnet Masks
- Basic Network Design

**Routers (CCST and
CCNA certification)**

- Beginning Router Configurations
- Routed and Routing Protocols

**Switching and VLANS
(CCNA certification)**

- LAN Switching Theory and
VLANs
- Advanced LAN and
LAN Switched Design

Cyber Security (Option)

- Intrusion Prevention
- Linux

Work Experience (see page 5)

PC Repair & Network Cabling



Program Highlights:

In this one-year **NYSED Approved CTE Program** (see page 3), students perform live customer work through a student-operated simulated computer repair business. This program gives students the knowledge, abilities, and customer relations skills needed for entry-level employment in the field. Students develop individual and team skills as they troubleshoot and solve networking issues. Course expectations require online participation. Networking experience prior to program admission would benefit students.

Network Technician

Stand alone 1 year course and highly recommended prior to CISCO Academy

PC Core Service (A+ Certification)

- Installation, Repair & Upgrading
- Safety & Preventive Maintenance
- Customer Satisfaction

Operating Systems (A+ Certification)

- Function, Structure, Operation and File Management
- Memory Management
- Basic Networking
- Networking for PC Repair

Networking Overview (Network+ and CCST Certifications)

- OSI Model and Industry Standards
- Network Topologies
- Basic Wireless Networking
- IP Addressing, Including Subnet Masks
- Basic Network Design/Installation

Work Experience (see page 5)

Connections

Career Connections

- Computer Repair Specialist
- Help Desk Technician
- Program Analyst
- System Analyst/Computer Scientist Trainee

College Programs

- Computer Information Systems
- Computer Repair Technology
- Computer Science
- Programming and Systems

Credit

High School Credit

- 3.0 CTE—
Only offered in the afternoon

College–Dual Enrollment

- (see page 4 for important details)
- Genesee Community College (4 credits)

Items to Consider

Successful students:

- Have a solid foundation in networking prior to program admission
- Work online to learn content
- Organize/plan for large-scale projects
- Work independently and in small and large groups
- See a project through from concept development to completion.

Career Connections

- Machinist
- Tool Maker
- Mold Maker
- Machine Builder
- Inspector (QA)
- Optical Fabricator
- Machine Repair Technician
- CNC Machine Operator
- Set Up or Programmer
- New York State Apprenticeship in a certified company

College Programs

- Machining
- Engineering
- Optical Technology
- Robotics

Automated Manufacturing & Machining



High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
- Includes:*
 - 1.0 English 12 (Advanced)
 - 1.0 Technical Science (Advanced)

College–Dual Enrollment

(see page 4 for important details)

- Monroe Community College (12 credits)

College–Articulation

- Alfred State College
- Finger Lakes Community College
- University of Northwestern Ohio

Program Highlights:

This two-year **NYSED Approved CTE Program** (see page 3) is recommended for students interested in pursuing a career in the field of industrial or mechanical engineering or to obtain employment in advanced manufacturing, including the optical and photonics industry. Employment opportunities in both disciplines are very good throughout the country. Students are introduced to the field of precision machining (cutting metal very precisely) through a hands-on approach with machines and cutting tools. A student completing this two-year program will be able to safely set up and operate various machines such as metal cutting lathes, mills, grinders, band saws, and Computer Numerical Controlled (CNC) mills and lathes. Students will also learn print reading, precision measuring CAD & CAM software, and shop math. Students will use precision measuring tools to measure and inspect projects. There are no prerequisites, although a good math background is helpful.

Successful students:

- Maintain excellent attendance
- Understand and able to perform decimal and fraction conversions
- Have good eye and hand coordination
- Demonstrate time management skills
- Wear personal protective equipment (safety glasses) for extended periods
- Follow safety procedures and practice safe work habits.

Units of Study

Basic (Year 1)

- Safe Shop Practices
- Computer Aided Design (AutoCAD)
- Shop Math
- Precision Measurement & Inspection Techniques
- CNC Programming
- Basic Milling Machine Use
- Engine Lathe Use
- Print Reading
- Power Cut Off Saws – vertical & horizontal
- Hand Grinding of Cutting Tools
- Intro to CNC Milling

Advanced (Year 2)

- Computer Aided Manufacturing (Mastercam)
- CNC Lathe Operations
- CNC Mill Operations (including 4th Axis machining)
- Advanced Milling Machine Use
- Advanced Print Reading (including GD&T)
- Quality Control Techniques
- Work Experience (see page 5)

Welding & Fabrication



Program Highlights:

In this two-year **NYSED Approved CTE Program** (see page 3), welding students learn the technology and art of joining metal by various methods, including Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding (SMAW) and Oxy-Acetylene Welding (OAW). Students also learn gas and electric arc cutting, blueprint reading, electrode selection, joint design, and metallurgy. Students complete test plates to increase skill and accuracy. Students apply welding and cutting skills to fabrication of metal objects and work on customer projects, fabricating, repairing parts/equipment, and performing maintenance.

Units of Study

Basic (Year 1)

- Safety
- Introduction to Welding
- Oxy-Fuel Cutting
- Hand Tools and their Safe Use
- Power Tools/Equipment and their Safe Use
- Shield Metal Arc Welding (SMAW)
- Gas Metal Arc Welding (GMAW)
- Flux Cored Arc Welding (FCAW)
- Gas Tungsten Arc Welding (GTAW)
- Blueprint Reading
- Oxy-Acetylene Welding (OAW)
- Carbon Arc Cutting (CAC)

Advanced (Year 2)

- Review Shop Safety
- Gas Tungsten Arc Welding (GTAW)
- Gas Metal Arc Welding (GMAW)
- Shielded Metal Arc Welding (SMAW)
- Plasma Arc Cutting (PAC)
- Welding Metallurgy
- Blueprint Reading
- Layout Techniques
- Fabrication Techniques
- Customer Work
- Carbon Arc Cutting (CAC)
- Work Experience (see page 5)

Connections

Career Connections

- Entry-level Positions as a Welder/Fabricator

College Programs

- Welding and Applied Technology
- Manufacturing and Engineering
- Apprenticeship Programs via Local Unions

Credit

High School Credit

- 3.5 CTE a.m./3.0 CTE p.m. (max)
Includes:
 - 1.0 English 12
 - 1.0 Science

College–Articulation

- Alfred State College
- Pennsylvania College of Technology (credit by evaluation)
- Universal Technical Institute

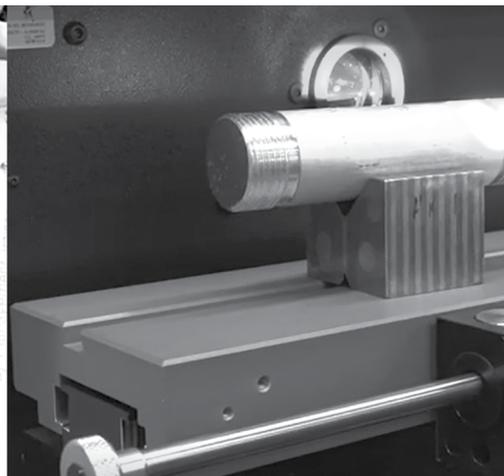
Items to Consider

Successful students:

- Have good manual dexterity, and are able to work with multiple materials/tools at one time
- Follow all Safety procedures, and practice safe work habits at all times
- Arrive to class prepared wearing sturdy leather work boots, jeans with no holes, and a long sleeve shirt
- Will be required to purchase a Welding Kit from our welding supplier at school (\$90).

For the latest information, visit our website:
www.monroe.edu/emcc

Brighton
East Irondequoit
East Rochester
Fairport
Honeoye Falls-Lima
Penfield
Pittsford
Rush-Henrietta
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