

# Career and Technical Education

COURSE INFORMATION  
2023- 2024



# Success Stories

WRITTEN

# Here



# ADMINISTRATION

Kevin MacDonald • District Superintendent  
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Batavia Career and Technical Education Center  
(585) 344 or 658-7711

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Mount Morris Career and Technical Education Center  
(585) 344 or 658-7811

# SCHOOL DISTRICTS SERVED

Alexander Central School	LeRoy Central School
Attica Central School	Letchworth Central School
Avon Central School	Livonia Central School
Batavia City Schools	Mount Morris Central School
Byron-Bergen Central School	Oakfield-Alabama Central School
Caledonia-Mumford Central School	Pavilion Central School
Dansville Central School	Pembroke Central School
Elba Central School	Perry Central School
Geneseo Central School	Warsaw Central School
Keshequa Central School	Wayland-Cohocton Central School
	Wyoming Central School
	York Central School

## MISSION STATEMENT

Our Mission is to lead collaboratively in creating quality solutions to emerging educational challenges

## CORE VALUES • WE BELIEVE

- All people have something to contribute
- Learning enriches life
- Accepting responsibility for choices and actions is essential for growth
- Quality relationships require honesty, trust, fairness, openness and mutual respect
- Embracing diversity enriches the individual and strengthens society

## NON-DISCRIMINATION POLICY

In accordance with Title VII of the Civil Rights Act of 1964 and Title IX of the amendments to that act, it is the policy of the Genesee Valley BOCES to not discriminate in the treatment of students, employees or others in any program or activity on any illegal basis. Illegal bases includes sex, sexual orientation, gender expression, gender identity, race, color, national origin, and disability.



# BRIDGING THE GAP



A report from the American Society for Training and Development, published in 2012, highlights the growing gap in the need for skilled workers in the United States. The report explains how the lack of skilled workers in the United States is dramatically impacting businesses ability to keep pace with productivity, which ultimately slows the economy.

A career in the skilled trades offers a broad scope of paths such as construction, manufacturing, auto industry, and engineering. These careers require problem-solving skills, mechanical ability, good hand-eye coordination, and strong math skills. The skilled trades are challenging, fulfilling and well-paid.

The Batavia and Mount Morris Career and Technical Education Centers offer a vast scope of programs that are proven to lead to college and or a career with a well-paying job. Career and technical education (CTE) programs are on the forefront of education reform - in this region and throughout the nation. By providing students with both components of the "college and career-ready" equation, CTE programs integrate both applied and practical skills into their curriculum.

FOR MORE INFORMATION  
ABOUT THESE PROGRAMS,  
CONTACT:

## **Batavia Career and**

### **Technical Education Center**

Rachel Slobert • Executive Principal

Patrick Chierichella • Assistant Principal

Courtney Gates • Student Services Coordinator

(585) 344-7711

## **Mount Morris Career**

### **and Technical Career Center**

Matthew Flowers • Executive Principal

Timothy Flack • Assistant Principal

Michelle Caton • Student Services Coordinator

(585) 658-7811

PLEASE NOTE THAT THIS BOOKLET IS A BRIEF  
SUMMARY OF THE CAREER AND TECHNICAL  
EDUCATION PROGRAMS OFFERED.



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## COURSE DESCRIPTIONS

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## FREQUENTLY ASKED QUESTIONS

### WHAT WOULD A SCHEDULE LOOK LIKE?

Students attend a half-day session every school day. Schedules are designed so students can still take courses at their home school and participate in extracurricular activities. School districts provide transportation to the career and technical education center.

### HOW MANY HIGH SCHOOL CREDITS WILL A STUDENT EARN?

Depending on their arrival time, students can earn three to four credits per session. Students may also earn credit for English 12, Math, Science and Career and Financial Management.

### ARE THERE SPECIAL COSTS?

Certain career center courses require uniforms and safety equipment. There may be an additional cost for college credit.

### WHAT IS A CAREER AND TECHNICAL EDUCATION ENDORSEMENT?

Students who successfully complete an approved career and technical education program earn a technical endorsement (seal) on their diploma by:

- Completing all high school graduation requirements, including Regents or approved alternatives
- Completing a work based experience and employability profile
- Passing a state or national technical assessment (assessments are subject to change)
- Students who receive this endorsement can be proud of achieving challenging academic and industry standards.

### WHAT IS EMBEDDED CREDIT?

Students may also earn credit for English 12, Math or Science depending on which CTE program they are enrolled in.

## FOR MORE INFORMATION

- Contact your high school counselor.
- Batavia Career and Technical Education Center (585) 344-7711.
- Mount Morris Career and Technical Education Center (585) 658-7811.

## COLLEGE CREDIT OPTIONS

Many courses at the Genesee Valley BOCES offer the opportunity to earn college credit, in addition to the high school credits you already earn.

## ARTICULATION AGREEMENTS

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, based on the successful completion of the career and technical education program. These credits are not transferable, which means they only apply to the school where 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 Student Services office to learn more.

## DUAL ENROLLMENT

A collaborative effort between the Genesee Valley BOCES and local community colleges allow us to offer college credit to students while they are still attending high school. These credits are transferable to many colleges and universities. A benefit of dual enrollment is that, when a student completes the course, it appears as a college credit on their transcript.

## CTE-CDOS GRADUATION PATHWAY

The New York State Board of Regents approved a ground-breaking initiative that will offer students new opportunities to develop college and career-ready skills in Career and Technical Education. 'Multiple Pathways' will provide technical skills and work-based learning opportunities, paving the way for students to meet the requirements to graduate with a regents diploma.

# WORK EXPERIENCE

## JOB SHADOWING

Shadowing allows students the opportunity to observe a work site related to their career and technical center area. Always a short term experience, students gather information by observation and asking questions. Shadowing may be appropriate when certain professions might prohibit student involvement (for example, the health care field). This activity is most appropriate for students who are at the end of their first year of career and technical education instruction or second year students.

## INTERNSHIP

Students, teachers, and employers work together to assign students a non-paid work experience activity related to their career and technical education curriculum. The major objective is for students to acquire hands-on learning and skills through exposure at a related worksite.

## CO-OP

Students who have successfully completed an internship experience may be eligible for a co-op. This is a paid, part-time job, which is occupationally related to their career and technical education program. Students receive release time from their career and technical program (up to four days per week), on the basis of student and employer need. These students are able to earn valuable technical skills related to their program as well as get paid a wage.

## FOR MORE INFORMATION:

- Contact your high school guidance counselor
- Or visit [www.gvbores.org](http://www.gvbores.org)
- Or contact the individual campuses at:

**Batavia Career and  
Technical Education Center**  
8250 State Street Road  
Batavia, NY 14020  
(585) 344-7711

**Mount Morris Career  
and Technical Career Center**  
27 Lackawanna Avenue  
Mount Morris, NY 14510  
(585) 658-7811





# CAREER ASSESSMENT PROGRAM (CAP)

Each campus has a Career Assessment Program (CAP) counselor responsible for coordinating and assisting students as they navigate through programs of their choice. Each is a certified school counselor with a master's degree in counseling. General Education, as well as students with IEPs/504s, are welcome in the CAP Program.

CAP allows students to explore a variety of careers in a hands-on setting before selecting the career and technical path that suits them. Students will complete at least four program explorations. After four explorations, students may choose to remain in one program for the remainder of the year or explore additional classes.



## WHAT IS CAP?

The Career Assessment Program (CAP) allows students, ages 15 and up, to explore careers in a hands-on setting before selecting a program. Through pre-vocational activities, students will complete at least four program explorations while in CAP. Each student's interests, talents, and lifestyle choices are examined with the goal of determining a potential career path.

## CREDIT AVAILABLE

- Per District

## SUCCESSFUL STUDENTS

- Are able to work independently
- Cooperate with teachers and peers
- Are able to transition between programs and activities
- Follow all safety procedures, as they vary depending on the program
- Work with and without close supervision
- Can manipulate tools and equipment in various trades
- Determine academic abilities as related to occupations

## STAFF

- Pam Preston, Batavia Campus
- Lillie Daisley, Mt. Morris Campus

# HEALTH CAREERS ACADEMY

The Career Pathways Health Careers Academy is a one year course of study designed to provide qualified 12th grade students with a broad knowledge of the health care industry. Students explore multi-disciplinary health care professions through on-site observations at local hospitals and other health care facilities. There are opportunities to develop an individualized career plan and a resume portfolio.

The Health Careers Academy is a collaboration between Genesee Community College and Genesee Valley BOCES. Students earn 15 college credit hours and participate in job shadow experiences in various clinical settings. The program is demanding academically and also requires the students to demonstrate professional behavior consistently.

## UNITS OF STUDY

- Career Planning
- Current Health Topics
- First Aid and CPR
- Health Career Shadows and Internships
- Health Insurance Portability and Accountability Act Compliance
- Infection Prevention
- Introduction to Occupations
- Leadership, Professionalism and Communication Skills
- Legal and Ethical Issues
- Medical Terminology

## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- American Red Cross Certification in Responding to Emergencies with CPR and AED for Professional Responders
- Precision Exams - Medical Terminology



## CAREER CONNECTIONS

- Audiologist
- Biomedical Engineer
- Chiropractor
- Dentist/Dental Hygienist
- Dietitian
- Drug/Alcohol Counselor
- Hematologist
- Laboratory Pathologist
- Nuclear Imaging Technician
- Nurse/Nurse Practitioner
- Occupational Therapist/Assistant
- Optometrist
- Pharmacist
- Physician's Assistant
- Physical Therapist/Assistant
- Physician
- Radiologist
- Respiratory Therapist
- Surgical Technicians

## CREDIT AVAILABLE

### High School

- 4.0 CTE

### College

- BIO 104 Cell Biology
- HED 205 Responding to Emergencies
- CEP101 Career and Educational Planning
- PSY 101 General Psychology
- OFT 116 Medical Terminology

## SUCCESSFUL STUDENTS

- Have a sincere interest in healthcare fields
- Display the maturity and ability to work both independently and in teams
- Plan to attend college or technical school
- Completed chemistry (75 percent or better)
- Maintained at least a B average
- Received recommendations from teacher and school counselor

# JUSTICE ACADEMY

The Justice Academy is a one year partnership program between Genesee Valley BOCES and Genesee Community College for highly motivated high school seniors interested in investigating careers in the legal field. In addition to earning 15 college credits, students explore multidisciplinary legal professions through job shadows, field trips and guest speakers from a variety of law enforcement and legal facilities.

This program is only offered at the Batavia Career and Technical Education Center



## UNITS OF STUDY

- **CRJ 101 Introduction to Criminal Justice:** Presents an overview of the administration of criminal justice in the United States and the problems of crime prevention and control in American society.
- **PLG 114 Introduction to Legal Studies:** Introduces structure and procedures of the American federal and state judicial system, the legislative process, legal reasoning and research, the litigation process, and several areas of law.
- **PSY 101 General Psychology:** Introduces the scientific study of human and animal behavior. Topics include basic methodology; motivation, emotion, learning, memory, human development, personality, psychological disorders, and therapy.
- **SOC 101 Introductory Sociology:** Studies social patterns affecting the structure and functioning of group life such as cultural values, deviance, class structure, and social change.
- **SPE 108 Introduction to Public Speaking:** Develops

## CAREER CONNECTIONS

- Attorney/Paralegal
- Bailiff
- Court Clerk/Court Reporter
- Crime Scene Investigator
- Criminal Psychologist
- Forensic Pathologist
- ICE Officer
- Judge
- Law Clerk
- Law Enforcement Officer (local, state and federal)
- Private Security Officer
- Probation/Parole Officer
- Social Worker

## CREDIT AVAILABLE

### High School

- 4.0 CTE

### College

- PSY 101 General Psychology
- CRJ 101 Introduction to Criminal Justice
- PLG 114 Introduction to Legal Studies
- SOC 101 Introduction to Sociology
- SPE 108 Introduction to Public Speaking

## 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 reading, writing and oral communication skills
- Have a strong desire to work in the legal field
- Plan to pursue post- secondary education
- Utilize critical thinking skills and possess good problem solving skills
- Are entering their senior year in September

# SPORTS SCIENCE ACADEMY

The program is held at the Genesee Community College (GCC) Dansville campus. Course curriculum includes sports management, health sciences related to coaching as well as Red Cross Certification in First Aid and CPR. This is a joint venture with Genesee Community College (GCC) through the ACE Program. Students have the opportunity to earn college credit hours through GCC at a third of the regular GCC tuition.

This program is only offered at the Dansville Career and Technical Education Center.

## UNITS OF STUDY

**Health Sciences Related to Coaching** – Introduces a series of interactive exercises and activities designed to study Health Sciences as they apply to coaching interscholastic sports in New York state.

**Introduction to Physical Education** – Introduces careers in physical education and sports, contemporary concepts, and new approaches to physical education and sport activities

**Introduction to Sport Management** – Management, marketing, legal, and financial operations of sports organizations in addition to industry career exploration

**Responding to Emergencies** – Presents emergency techniques used to maintain health, alleviate suffering and sustain human life under conditions during which professional care and/or normal health services are unavailable.

Total of 14 College Credits

## CERTIFICATIONS

- Red Cross, Responding to Emergencies, & CPR/AED for the Professional Rescuers

## CAREER CONNECTIONS

- Athletic Director
- Coaching
- Exercise Management
- Facilities Management
- Fitness and Recreation Management
- Personal Trainer
- Physical Therapy Assistant
- Sports Management
- Sports Retail

### College

- PED 250 Introduction to Physical Education
- PED 251 Introduction to Sports Management
- PED 259 Beginning Personal Fitness
- HED 205 Responding to Emergencies
- HED 209 Health Sciences Related to Coaching

## CREDIT AVAILABLE

- High School**
- 4.0 CTE

## SUCCESSFUL STUDENTS

- Have a sincere interest in the sports/medical industry
- Maintain at least a "B" average
- Have met application requirements



# ANIMAL SCIENCE

The Animal Science Program's mission is to provide a comprehensive educational experience in the animal industry. Students will be introduced to industry opportunities to best prepare them for an animal related career or post-secondary education. Guest speakers, field trips, shadowing and internship programs are made available by our Industry Consultant Committee members who have a pulse on the current employment needs and prospects. While students are studying the academic content they are applying their knowledge to the direct care and comprehensive management of the animals in our program. These animals may include rabbits, rats, chinchillas, dogs, chickens, sheep, goats, horses, reptiles, beef and dairy cattle, and pigs. This program is designed to prepare young adults for employment by providing them career readiness skills such as collaboration, team work, problem solving, accountability, written and verbal communication, leadership, business ethics, diversity, stewardship and more.

## UNITS OF STUDY

- Animal Feeding and Nutrition
- Animal First Aid/CPR
- Animal Handling with Focus on the Reduction of Fear, Anxiety and Stress
- Animal Rights and Roles in Society
- Animals in Production (Reproduction Processes and Genetics)
- Body Systems and Diseases
- Business Management/Sales and Marketing
- Careers in the Animal Industry
- Crop Production and Management
- Employability Skills such as Collaboration, Communication, Leadership, Conflict Resolution
- Ethology
- Greenhouse Management
- Grooming
- Husbandry and Disease Prevention of Various Species
- Methods of Animal Training and Behavior
- National FFA Organization / Youth Leadership
- Pharmacology
- Safety and hazard awareness and prevention (Equipment and Farm Safety)
- Sanitation and Biosecurity
- Species and Breed Identification
- Veterinary Medical Terminology
- Veterinary Office Management

## CERTIFICATIONS

- Animal First Aid/CPR
- iCEV CTE Curriculum endorsed by ELANCO
- OSHA Certification



## CAREER CONNECTIONS

- Agri-Business
- Animal Breeding
- Animal Shelters
- Boarding Kennels / Daycare
- Dairy Industry
- Dog Groomer
- Dog Handling
- Livestock Industry
- Meat Production
- Pet Sales Associate
- Pet Therapy
- Veterinary Assistant
- Veterinary Technician

## CREDIT AVAILABLE

### High School

- 4.0 CTE

### Embedded

- .5 Career and Financial Management
- 1.0 Science
- 1.0 English Language Arts 12

### College Articulation Agreements

- Genesee Community College
- Alfred State
- SUNY Cobleskill

## SUCCESSFUL STUDENTS

- Have an interest in science and all aspects of animal care
- Follow all safety procedures, and practice safe work habits at all times
- Work well independently, and in small and large groups
- Practice good judgment while caring for animals
- Enjoy working both indoors and outdoors in varying weather conditions
- Have sufficient physical ability to remain standing for extended periods of time, and lift or manipulate animals and equipment

# AUTO BODY

With constant changes in auto design and construction, the auto body repair field needs qualified, energetic, and well-trained technicians. Instruction is intended to develop employability skills, which are necessary in today's demanding workplace. In the Auto Body Program, each student's abilities are developed through class theory, as well as, hands-on repair of damaged vehicles and specialized custom projects.

## UNITS OF STUDY

- Collision Repair Process
- Damage Report Writing
- Estimating
- Exterior Trim and Lighting
- Glass and Trim
- Hybrids
- Industry Repair Terms
- Measuring and Straightening
- Mechanical Repair
- Non-Structural and Structural Repairs and Part Replacement
- Refinishing and Corrosion Protection
- Tools, Equipment, and Attachment Methods
- Welding and Panel Bonding

## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- I-CAR Collision Repair Certification
- NYS Mandated 6H Paint Certification
- Precision Exams: Automotive Collision Repair
- Shop and Personal Safety Certification

## CAREER CONNECTIONS

- Auto Glass Technician
- Body/Frame Technician
- Customer Service Manager/Estimator
- General Manager
- PDR Technician
- Paint/Prep Technician
- Parts Coordinator
- Production Manager
- Quality Support Technician/Detailer

## SUCCESSFUL STUDENTS

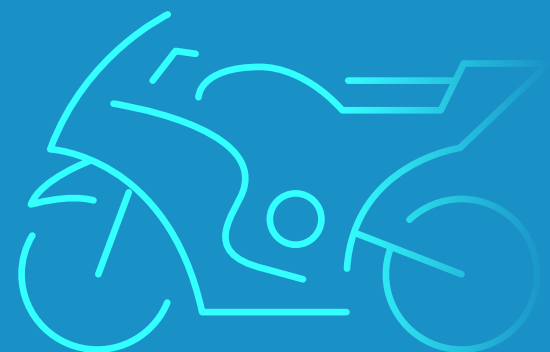
- Follow safety procedures and practice safe work habits at all times
- Work well individually and as a member of a team
- Apply problem solving skills to procedures
- Have excellent fine motor skills

## CREDIT AVAILABLE

**High School**  
• 4.0 CTE

**Embedded**

- 1.0 Math
- 1.0 Science
- 1.0 English Language Arts 12
- .5 Career and Financial Management



# AUTOMOTIVE TECHNOLOGY

The Automotive Technology Program is designed to give students a focused, automotive systems approach to learning the automotive repair trade. Students will use school training vehicles, training simulators, and real customer repair situations to demonstrate understanding and competency in hands-on activities that align with national automotive industry standards.

Both the Mount Morris and Batavia CTE Center programs are part of the Ford Future Techs program. The support of Rochester and Buffalo-area dealers and independent repair shops have proven beneficial to the future success of auto tech students. State-of-the-art equipment used in our programs provide students with the opportunity to develop skills and prepare for entry level employment in the automotive field.

## UNITS OF STUDY

- Brakes
- Customer Service
- Electrical and Electronic Systems
- Engine Performance
- Portfolio Development
- Shop Safety
- Suspension and Steering
- Work Experience (qualified students)

## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- Precision Exams: Automotive Service Fundamentals
- Qualifications toward ASE certification
- Qualifications toward NYS Motor Vehicle Safety Inspector's License
- Industry Standard Safety Training



## CAREER CONNECTIONS

- Agricultural Technician
- Aircraft Technician
- Automotive Technician
- Auto Shop Owner
- Diesel Technician
- NASCAR Crewmember
- Parts Store Specialist
- Service Manager/Writer

## CREDIT AVAILABLE

### High School

- 4.0 CTE

### Embedded

- 1.0 Math
- 1.0 Science
- 1.0 English Language Arts 12
- .5 Career and Financial Management

### College Articulation Agreements

- Alfred State College
- SUNY Canton
- Erie Community College
- Morrisville State College
- University of Northwestern Ohio
- Universal Technical Institute

## SUCCESSFUL STUDENTS

- Follow safety procedures and practice safe work habits at all times
- Use equipment safely
- Works well individually and with a team
- Apply problem solving skills to service procedures
- Have sufficient physical ability to manipulate tools and equipment



# BUILDING TRADES

In the Building Trades Program students are given the opportunity to learn fundamental and transferrable skills. Each student participates in the construction of a home, from start to finish.

All students are offered an OSHA 10-hour safety course and begin training in safety and operations for all aspects of the building trades industry. All students have the opportunity to take on a leadership role in all aspects of any project.

## UNITS OF STUDY

### Year 1

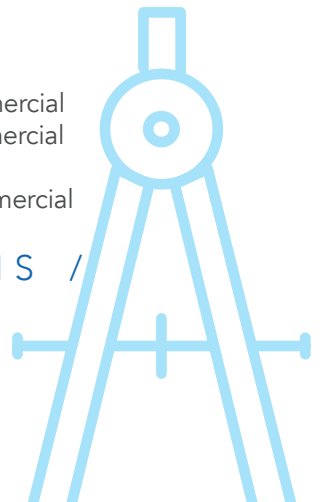
- Basic Architectural Drawing
- Basic Electrical
- Basic Plumbing
- Cabinetry
- Estimating
- Finish Carpentry, Residential and Commercial
- OSHA Safety
- Rough Carpentry, Residential and Commercial
- Safe and Proper Tool Use
- Scaffolding

### Year 2

- Advanced Electrical Trades, Residential and Commercial
- Advanced Finish Carpentry, Residential and Commercial
- Advanced Plumbing Trades
- Advanced Rough Carpentry, Residential and Commercial

## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- Carpenters Union Exam opportunity (Local 276)
- NCCER Curriculum
- Career Connections
- OSHA 10-Hour



## CAREER CONNECTIONS

- Architect
- Carpenter (all aspects)
- Civil Engineer
- Construction Management
- Construction Project Manager
- Electrician (all aspects)
- Estimator
- Heating and Air Conditioning
- Home Energy Analyst Technician
- Home Interior Design
- Laborer
- Lineman
- Mason
- Mechanical Engineer
- Plumber

## CREDIT AVAILABLE

### High School

- 4.0 CTE

### Embedded

- 1.0 Math
- 1.0 Science
- .5 Career and Financial Management

## SUCCESSFUL STUDENTS

- Prefer hands-on learning
- Like to work outdoors in all seasons
- Enjoy being active, inventive and creative in a team environment
- Follow safety precautions at all times
- Use equipment safely as they participate in class



# COMPUTER INFORMATION SYSTEMS

The Computer Information Systems Program provides students with hands-on experience with the innovations and technologies that are shaping the future and changing the world. Students work on a PC network and use the internet as a research tool to design web pages. Students also gain hands-on experience in systems operation and computer programming as they work with business applications. Students obtain practical knowledge as they install software and hardware and use multimedia technology on their own network system.

This class also offers the opportunity to join the Future Business Leaders of America. Students compete in events testing their business knowledge and skills. Top state winners are eligible to compete for honors at the National Leadership Conference each summer.

## UNITS OF STUDY

- 3D Printing / Modeling
- Hardware/Software
- Microcomputer Applications
- Multimedia Design
- Networking
- HTML Coding
- 3D Rendering and Printing
- Computer Repair
- Graphic Design
- Job Shadowing/Internship Opportunities
- Mobile App Development
- Project Development
- Web Design/Development



## CAREER CONNECTIONS

- Computer Programming
- Computer Repair
- Computer Science
- Information Security
- Network Technician/Administrator
- Systems Analyst
- Web and Graphic Design

## CREDIT AVAILABLE

### High School

- 4.0 CTE

### Embedded

- 1.0 Math
- .5 Career and Financial Management

## SUCCESSFUL STUDENTS

- Can work independently as well as in a team environment
- Are project-based and hands-on learners
- Manage time wisely and efficiently
- Have a consistent attendance record (at least 90% attendance rate)
- Are motivated to be successful and challenged daily
- Can troubleshoot and problem solve effectively



# CONSERVATION & HEAVY EQUIPMENT

In the Conservation and Heavy Equipment Program students participate in a variety of learning activities to acquire the skills needed for environmental and outdoor careers. Fish and wildlife management, woodlot management, soil excavation and grading, and pond and drainage projects are some of the course topics covered. Students use advanced tools and equipment to diagnose and repair diesel-powered equipment, and small equipment with two-cycle and four-cycle engines.

## UNITS OF STUDY

### Conservation/Forestry

- Environmental Studies
- Field Surveying and Measurement
- Forestry Equipment and Tools
- Map and Compass Skills
- Sawmill Operations
- Tree and Shrub Identification, Pruning and Care
- National FFA Organization/Youth Leadership

### Heavy Equipment Operations

- Backhoe
- Bulldozer
- Excavator
- NCCER Based Curriculum
- Skid Loader

### Agriculture Mechanics

- Hydraulics
- Small Engine Theory/Repair
- Welding
- Carpentry
- Equipment Maintenance

### Landscape Operations

- Landscape Design Installation and Maintenance
- Plant Identification

## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- CDL Class B License
- First Aid/CPR
- Fork Lift Certification
- NCCER Certifications
- Occupational Safety and Health Administration (OSHA) 10-Hour

### CAREER CONNECTIONS

- Agricultural Equipment Dealer
- Ecology
- Environmental Technology
- Forest Technician
- Forestry
- General Construction Worker
- Heavy Equipment Operator
- Heavy Equipment Repair Technician
- Landscaping/Horticulture
- Parks Maintenance
- Small Engine/Diesel Mechanic
- Surveyor

### CREDIT AVAILABLE

#### High School

- 4.0 CTE

#### Embedded

- 1.0 Science
- 1.0 English Language Arts 12
- 1.0 Math
- .5 Career and Financial Management

### SUCCESSFUL STUDENTS

- 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 outdoors despite weather conditions
- Are physically fit, capable of handling a chainsaw



# COSMETOLOGY & BARBERING

Students learn the latest techniques in hair, nail and skin care in the Cosmetology program. Students practice haircuts 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 for success in the industry.

Students attend the program for two years. Upon accumulating 1,000 hours of theory and practical, students are eligible to take the New York State Cosmetology Licensing exams. Secondary Barbering and Esthetics programs are also offered.

## UNITS OF STUDY

- Career Placement and Job Opportunity
- Chemical Restructuring and Straightening
- Communication and Professionalism
- Hair, Skin, and Nail Structure, Growth, and Nutrition
- Hair Coloring and Highlighting
- Hairstyling, Haircutting, Shampooing, and Conditioning
- History and Career Opportunities
- Life Skills
- Nail Care (Manicuring, Pedicuring, and Acrylic Nails)
- NYS Appearance Enhancement Laws
- NYS State Board Preparation
- Properties of the Hair and Scalp Safety, Health, and Infection Control
- Salon Business, Management and Ownership
- Shampooing, Conditioning, and Treatments
- Skin Care (Hair Removal, Facials, and Make Up)

## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- Barbering License 600 Hours
- Cosmetology License 1,000 hours
- Esthetics License 600 Hours
- Nail Specialty License 300 Hours
- Natural Hair Styling License 300 Hours

Students who do not attain their total hours needed for completion, may pay to complete their training through the GV BOCES Adult Education Program or at a proprietary school.



## CAREER CONNECTIONS

- Barber
- Chemical Specialist
- Cosmetologist
- Cosmetology Teacher
- Esthetician
- Hair Color Specialist
- Nail Technician
- Natural Hair Stylist
- Professional Makeup Artist
- Retail Sales/Product Educator
- Salon Manager
- Salon/Spa Owner
- Waxing

## CREDIT AVAILABLE

### High School

- 4.0 CTE

### Embedded

- 1.0 Science
- .5 Career and Financial Management
- 1.0 English Language Arts 12

## SUCCESSFUL STUDENTS

- Maintain excellent attendance to complete hours for licensing
- Communicate effectively/demonstrate time management
- Follow written and verbal directions
- Participate in student-to-student clinics, as models and stylists
- Work in close physical contact with people
- Participate in job shadows
- Can obtain a job directly out of high school

# CRIMINAL JUSTICE

The Criminal Justice Program is taught by instructors who were formerly employed in the law enforcement field, and introduces students to the basic foundations of the criminal justice system. In addition, students will expand their research and writing skills, reading comprehension abilities, and public speaking skills. Instructional tools used include lecture, guest speakers, field trips, video, hands on training, and research projects.

## UNITS OF STUDY

- Capital Punishment
- Case Law
- Community Relations
- Corrections
- Court Systems
- Criminal Investigations
- Criminal Procedure Law
- Fingerprinting
- Individual Rights vs. Public Order
- Patrol Procedures
- Police Reports
- Scientific Aids to Crime Detection
- Serial Killers
- Vehicular And Traffic Laws Enforcement

## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- CPR and First Aid
- NYS Security Guard Certification
- Stop the Bleed
- CRASE (Civilian Response to Active Shooter Events)

## CAREER CONNECTIONS

- Attorney
- Corrections Officer
- Federal Agent
- Military Police
- Paralegal
- Police Officer
- Private Investigator
- Probation Officer
- Security Officer
- Social Worker

## SUCCESSFUL STUDENTS

- Are motivated and prepared for independent research
- Have an open mind toward new concepts
- Embrace new challenges, like public speaking
- Are able to articulate their opinions and ideas clearly in both written and verbal format

## CREDIT AVAILABLE

### High School

- 4.0 CTE

### Embedded

- 1.0 Science
- 1.0 English Language Arts 12
- .5 Career and Financial Management
- .5 Physical Education



# CULINARY ARTS

The Culinary Arts Program focuses on practical hands-on experiences in a state-of-the-art professional kitchen. Students develop essential skills in various cooking methods, sanitation, leadership and customer service.

Students will gain experience while operating the Culinary Arts Café and catering special on-campus events. They will also use the Culinary Essentials curriculum which is supported by a textbook by Glencoe McGraw-Hill

## UNITS OF STUDY

- Breakfast Food and Sandwiches
- Desserts and Baked Goods
- Food Safety and Kitchen Safety
- Global Cuisine
- Meat, Poultry, Seafood
- Nutrition
- Salads and Garnishes
- Stocks, Soups, and Sauces
- Vegetables, Potatoes, Grains

## STUDENTS WILL HAVE ADDITIONAL OPPORTUNITIES TO:

- Be a part of local community events
- Work in relevant industry internships
- Participate in Skills USA competitions
- Join the Culinary Club

## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- Pro Start/National Restaurant Association
- ServSafe Certification



## CAREER CONNECTIONS

- Caterer
- Dietician
- Executive Chef
- Food Production Manager
- Kitchen Assistant
- Nutritionist
- Pastry Chef/Baker
- Restaurant Manager
- Restaurant Owner
- Sous Chef

## CREDIT AVAILABLE

### High School

- 4.0 CTE

### Embedded

- 1.0 Math
- 1.0 Science
- 1.0 English Language Arts 12
- .5 Career and Financial Management

### College Articulations

- Alfred State College
- Culinary Institute of America
- Erie Community College
- Niagara County Community College (Niagara Falls Culinary Institute)
- SUNY Delhi

## 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 in busy and crowded areas

# DIESEL MECHANICS

Diesel powered vehicles are found in construction, trains, marine applications and are commonly used in the military. In addition, fixed diesel engines are widely used as a power source for generators, pumps and other applications requiring a dependable and economical source of power. The Diesel Mechanics Program is a two-year training sequence aimed at students who have a desire to work on trucks, heavy machinery, and corporate fleets.

## UNITS OF STUDY

- Brakes
- Diesel Engine Basics
- Diesel Engine Fuel, Exhaust, Emissions and Tune-up
- Diesel Engine Operation, Components and Cooling
- Electrical and Electronics
- Freightliner OEM Truck Training
- HVAC for Heavy Vehicles
- Hydraulics
- MAC 609 Air Conditioning
- Manual and Automatic Transmissions
- NYSI (New York State Inspection)
- Safe Work Practices and Emergency Procedures
- SP/2 Safety Training
- Steering and Suspension
- Tools and Equipment
- Vehicle Maintenance and Inspection Procedures

## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- CDL Class B License
- Precision Exams: Automotive Service Fundamentals
- Safety and Pollution Prevention Training

## CAREER CONNECTIONS

- Heavy Vehicle Service Technician
- Large and Commercial Vehicle Repair and Maintenance
- Marine and Railroad Engine Diesel Mechanics
- School Bus Mechanic
- Small Engine Diesel Mechanic

## CREDIT AVAILABLE

### High School

- 4.0 CTE

### Embedded

- 1.0 Math
- 1.0 Science
- .5 Career and Financial Management

## SUCCESSFUL STUDENTS

- Follow all safety procedures, and practice safe work habits at all times
- Use equipment safely
- Work well individually and with a team
- Apply problem solving skills to service procedures
- Have sufficient physical ability to manipulate tools and equipment
- Possess good reading comprehension
- Possess basic math skills



# ELECTRO-MECHANICAL TRADES

Electro-mechanical and mechatronics technologists and technicians combine knowledge of mechanical technology with knowledge of electrical and electronic circuitry. They operate, test, and maintain unmanned, automated, robotic, or electromechanical equipment. This program is only offered at the Batavia Career and Technical Education Center.

## UNITS OF STUDY

### Year 1

#### Safety

- OSHA Safety (Construction 10-hour)
- Safe and Proper Tool use

#### Basic Electrical Theory

- Electrical Fundamentals
- Basic Electricity
- Basic Electrical Circuits
- Electrical Systems and protection
- Alternating Current
- Motor, Generators, & Transformer

#### Blueprint reading

- Electrical Construction Drawings
- Schematics

#### Wiring Practice

- Services
- Power Distribution
- Home Entertainment Systems
- Security Systems

### Year 2

- OSHA Safety (General Industry 10-hour)
- Specialized Tools and Equipment

#### Motor control

- Advance Circuits
- Contactors and Motor Starters
- Motor Theory and Application
- Trouble Shooting
- Electrical Testing

#### Load Calculations

- Commercial
- Industrial

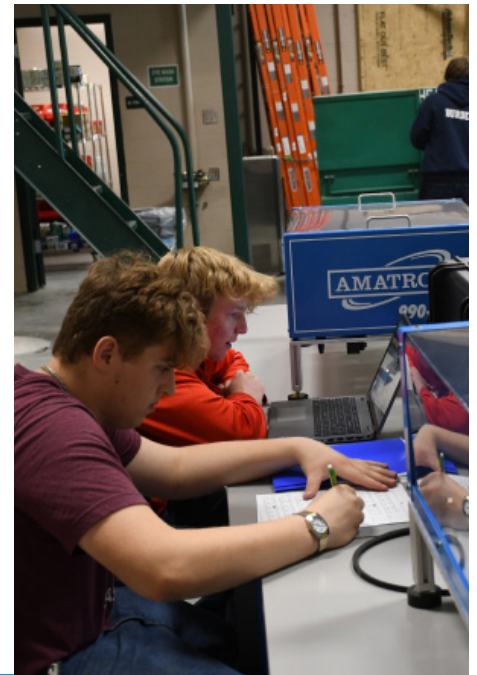
#### Commercial and Industrial Wiring

- Wiring Methods
- Circuit Breakers and Fuses
- Three Phase

#### Premise Wiring

- Communications Wiring
- Fire Alarm and Security Systems

#### Specialized Tools and Equipment



## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- Smart Automation Certification Alliance Certification
- OSHA 10 Hr Safety Certifications

### CAREER CONNECTIONS

(20 percent projected job growth from 2016-2026)

- Residential, Commercial, or Industrial Electrician/Technician
- HVAC Technician
- Network/Communication Technician
- Fire Alarm/Security System Technician
- Lineman
- Building Maintenance Technician
- Electro-Mechanical Technician
- Photovoltaic Technician

### HANDS-ON TRAINING

- State of the art mechanical, pneumatic and electrical lab training equipment
- Building Maintenance
- Various real life wiring and mechanical lab stations

### CREDIT AVAILABLE

- 4.0 CTE
- .5 Career and Financial Management Embedded
- 1.0 Math • 1.0 Science
- .5 Career and Financial Management College Credits
- Monroe Community College Dual Credit Available

### SUCCESSFUL STUDENTS

- Follow all safety procedures, and practice safe work habits at all times
- Use equipment safely
- Work well individually and with a team
- Apply problem solving skills to service procedures
- Have sufficient physical ability to manipulate tools and equipment



# GRAPHIC ARTS

In the Graphic Arts Program, students gain experience in commercial art and design as well as printing and printing-related equipment. Emphasis is put on digital imaging through use of state-of-the-art computers and up-to-date software. Students are exposed to analog and digital photography through in-depth lessons and creative experiences. Graduates are ready for entry-level jobs in the graphic arts industry, or to continue their education at the post secondary level.

This program is only offered at the Batavia Career and Technical Education Center.

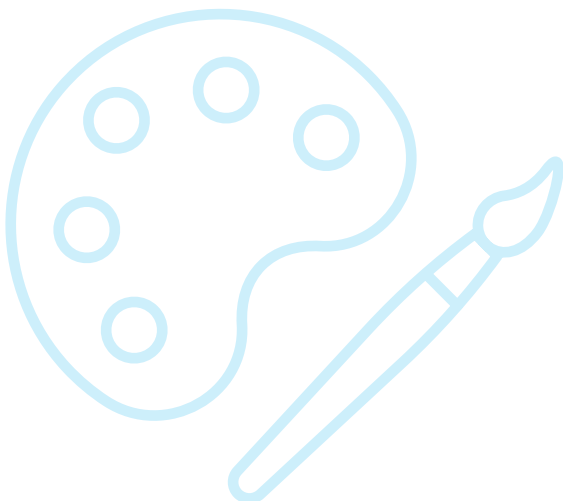
## UNITS OF STUDY

### Equipment and Materials

- Color Theory
- Design Fundamentals and Techniques
- Design Tools and Software Navigation
- Equipment and Auxiliary Tools
- ImageCapture, Cloud
- Google Docs and the Adobe Cloud
- Packaging Science
- Typography
- Various Print-Making Processes, Machine Components and Operations
- Animation

### Photography

- Video Editing
- Associated Software Applications
- Camera Operations
- Digital and Analog Photography Elements and Techniques
- Photo Manipulation, Alteration and Enhancements
- Photo Transition



## CAREER CONNECTIONS

- Design Artist
- Finishing/Shipping/Locations
- Game Design and Development
- Graphic Designer
- Information Technology
- Interface Design
- Marketing Multi-Media
- Packaging Science
- Photographer
- Production Coordinator
- Web Designer

## CREDIT AVAILABLE

### High School

- 4.0 CTE
- BUS101 Principles of Business
- ART 209 Computer Graphics
- Art 105 Two Dimensional Design

### Embedded

- 1.0 Math
- .5 Career and Financial Management

## SUCCESSFUL STUDENTS

- Are creative and artistically inclined
- Are motivated to work independently
- Are able to manage time wisely
- Have an interest in photography and graphic design
- Are good communicators and visually perceptive
- Understand the importance of meeting deadlines
- Are well organized
- Have problem solving skills



# HEALTH DIMENSIONS

The Health Dimensions program prepares students to become a Certified Nursing Assistant (CNA). Personal care skills are taught in the classroom and then students gain hands-on experience performing skills at local healthcare facilities. Career planning strategies are developed for all students enrolled in the program. Upon successful completion of both years in the Health Dimensions program, students are eligible to take the New York State Certified Nurse Aide (CNA) exam. Certification as a Certified Nurse Aide (CNA) is required for employment in long-term care facilities.

## UNITS OF STUDY

- Bloodborne pathogens
- Elimination Skills
- First Aid, CPR, AED, Rescue Breathing
- HIPPA/Legal and Ethical practices
- Infection Control
- Measurement of Blood Pressure, Temperature, Pulse and Respiration
- Personal Care Skills
- Professionalism in the Healthcare Industry
- Use of Adaptive Equipment

## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- CPR/AED/ First Aid Certification
- Certified Nurse Aide
- Identifying and Reporting Child Abuse

## CAREER CONNECTIONS

- Certified Nursing Assistant (CNA)
- Dietary Staff
- Dietitian/Nutritionist
- Licensed Practical Nurse (LPN)
- Phlebotomist
- Physical/Occupational Therapist
- Registered Nurse (RN)

## CREDIT AVAILABLE

### High School

- 4.0 CTE

### Embedded

- 1.0 Science
- 1.0 English Language Arts 12
- .5 Career and Financial Management

## SUCCESSFUL STUDENTS

- Have an interest in working in close 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
- 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.)



# HUMAN SERVICES

Human Services students explore multiple theories and stages of human development. Curriculum includes an overview of social issues visible in today's families and society. Students identify and locate community resources, including local agencies and examine social and cultural diversity. Students also identify verbal and non-verbal communication and develop methods for identifying and working with persons with special needs. Students participate in on-site projects with the elderly throughout the year and students create a professional portfolio.

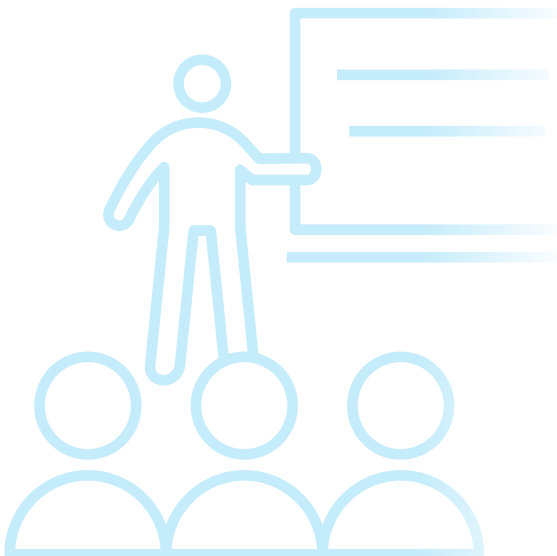
This program is only offered at the Mount Morris Career and Technical Education Center.

## UNITS OF STUDY

- Career Planning
- Communication
- Diversity
- Early Childhood
- Middle Childhood / Adolescence / Adults and Aging
- Safety and Sanitation
- Work Experience Opportunities

## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- Child Abuse Prevention Certificate
- DASA
- Precision Exams: Early Childhood Education
- SAVE (NYS Schools Against Violence in Education)



## CAREER CONNECTIONS

- Activity Aide – assisted care facility, persons with special needs
- Advocate (child, persons with special needs, family, migrant families, elderly)
- Child Development Associate (CDA)
- Community Services Aide
- Consumer/Client Advocate
- Counseling/Social Work
- Day Care Provider
- Early Childhood Education
- Elementary or Secondary Teacher
- Family Services Provider
- Home Care Aide
- Job Coach
- Recreation/Leisure Directors/Therapists
- Residential Assistant
- Special Education Teacher
- Teacher Assistant and/or Aide

## CREDIT AVAILABLE

### High School

- 4.0 CTE

### Embedded

- 1.0 English Language Arts 12
- .5 Career and Financial Management

## COLLEGE PROGRAMS AND ARTICULATION AGREEMENTS

- Genesee Community College
- Herkimer County Community College

## SUCCESSFUL STUDENTS

- Have great people skills and the desire to work with people of all ages
- Are motivated and challenged daily
- Are passionate about making a difference in someone's life
- Work well independently and with others
- Can communicate effectively

# METAL TRADES

In the Metal Trades Program students learn how to set-up and operate machining and welding equipment. Hands on instruction is provided in the use of lathes, milling machines, surface grinders, drill presses, Computer Numerically Controlled (CNC), Haas lathe and milling machines. Students develop hands on skills in each of the major welding and cutting processes including oxyacetylene, TIG, MIG, Arc welding, plasma arc and air carbon arc. Students will learn how to program and run the CNC Plasma Burning Table. Units of study that are interwoven throughout the program include Safety, Trade Math, Layout and Fabrication, Blue Print Reading, Metallurgy and Communication Skills.

## UNITS OF STUDY

### Year 1

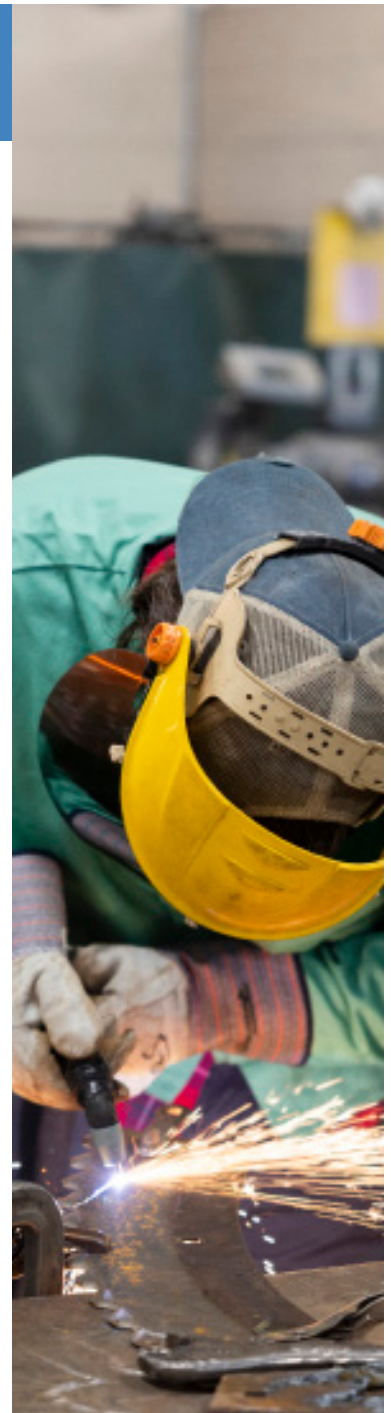
- Basic Machining
- Engine Lathe
- Gas Metal Arc Welding (GMAW)
- Gas Tungsten Arc Welding (GTAW) structural
- Horizontal Mill
- Introduction to Welding
- Oxy-Acetylene Welding (OAW)
- Oxy-Acetylene Cutting (OAC)
- Plasma Arc Cutting (PAC)
- Power Tools/Equipment and Safe Use
- Precision Instrumentation Reading
- Print Reading
- Safety/Hand Tools and Safe Use
- Shielded Metal Arc Welding (SMAW)
- Surface Grinding
- Trade Math

### Year 2

- Aluminum, Steel, and Stainless Steel
- AWS Entry Level Welding Test Plates and Workmanship Samples
- CNC Mill/CNC Lathe
- Fabrication
- Gas Metal Arc Welding (GMAW)
- Gas Tungsten Arc Welding (GTAW) pipe welding
- Machining Skill Development
- Pipe Welding
- Print Reading
- Safety
- Sheet Metal Layout
- Trade Math
- Welding Metallurgy
- Work Experience Opportunity

## INDUSTRY-BASED EXAMS / CERTIFICATIONS

- Occupational Safety and Health Administration (OSHA) 10-hour card
- OSHA Forklift Certification
- Students may obtain their CDL Class B License



## CAREER CONNECTIONS

- Artist
- Ironworker
- Machining Technology
- Machinist
- Maintenance Mechanic
- Millwright
- Pipefitter
- Quality Control Inspector
- Sheet Metal Fabricator
- Small Business Owner
- Tool and Die Maker
- Welder
- Welder/Fabricator
- Welding Engineering
- Welding Technology

## CREDIT AVAILABLE

- High School
- 4.0 CTE

### Embedded

- 1.0 Math
- 1.0 Science
- .5 Career and Financial Management

### College Articulation Agreements

- Mohawk Valley Community College
- Pennsylvania College of Technology

### College Credits

- Monroe Community College Dual Credit Available (Batavia Campus only)

## POST-SECONDARY EDUCATION

### Schools Most Commonly Attended After Graduation

- Alfred State College
- Hobart Institute of Welding Technology

- Mohawk Valley Community College
- Monroe Community College
- Morrisville Community College

## SUCCESSFUL STUDENTS

- Work with or without close supervision
- Demonstrate attention to detail and the ability to concentrate on detailed work for prolonged periods of time
- Possess good mechanical aptitude and manual dexterity
- Have good eyesight, and are in good physical condition
- Demonstrate ability to stoop, bend, climb, stand and work in awkward positions
- Communicate effectively and follow directions
- Demonstrate attention to detail
- Follow all safety standards

# TAYLOR TYCZKA –

## A STORY OF HARD WORK AND DETERMINATION

There is an old adage that says, “hard work and determination pays off.” Taylor Tyczka is a fine example of this, and she exemplifies that with purpose and persistence one can achieve their personal goals.

In 2019, Tyczka graduated from Attica Central Schools and the Batavia Career and Technical Education (CTE) Center. As a sophomore student, she was enrolled at the Batavia CTE Center in the Career Assessment Program also known as CAP. (In this program, students select CTE Programs that they wish to explore and attend each program for a five or ten-week marking period.) Tyczka explored different career and technical education programs through CAP but after spending one ten-week marking period in the Computer Information Systems (CIS) Program, Tyczka knew she found her niche.

As an 11th grader, Tyczka returned to the Batavia CTE Center and enrolled in the CIS Program. As a senior, she attended the IT (Information Technology) Academy.

“In 2016, I came to the Batavia CTE Center as a CAP student and was able to explore four different programs. When I started in the Computer Information Systems (CIS) class, I knew this was the place for me. I was able to finish the school year enrolled in this program,” Tyczka said.

It was during Tyczka’s junior year that she grew both academically and socially, and was a top student in her class. Tyczka joined the Future Business Leaders of America (FBLA) organization, where her confidence soared as she participated in regional and state FBLA competitions. As a junior, Tyczka was elected as the FBLA Vice President of New York State Region 10.

Jon Sanfratello was the Executive Principal of the Genesee Valley (GV) BOCES Campus when Tyczka was a student at Batavia CTE Center. Sanfratello now serves as the Director of Instructional Programs for GV BOCES. He described Taylor as dedicated and exemplary.

“Taylor was an inquisitive person; always positive and

upbeat. Her peers respected her and thought of her as a role model,” Sanfratello said.

In 2019, during her senior year, Tyczka represented GV BOCES at a state-wide event that was held at the New York State Capital Building in Albany, New York. This event was called “BOCES in the Well.” Representatives from all 37 BOCES came to the Capital Building to showcase the programs and services that each BOCES provides. Her speech included how her educational experiences at GV BOCES provided endless opportunities.



Sanfratello described Tyczka’s speech that she gave at the BOCES

in the Well event as inspirational.

“The speech that Taylor gave was incredible. Everyone, legislators, BOCES representatives and other students, paused to listen to Taylor speak,” Sanfratello said. “She spoke clearly and so eloquently about GV BOCES and how her experiences helped her to be successful. Taylor was an outstanding representative for GV BOCES.”

After graduation, Tyczka attended the University of Pittsburgh at Bradford.

“Between the courses that I took at the Batavia CTE Center and Attica High School, I earned 50 transferable college credits,” Tyczka explained.

Because all of these credits were accepted, this allowed Tyczka to graduate from college in just 2 ½ years. She holds a Bachelor of Science in Computer Information Systems/Technology with a minor in both Business and Management Information.

She was hired immediately out of college at Trouw Nutrition where she works as a technology specialist.

Tyczka noted that she is happy how her education led to her career. But she shared an important detail.

“I love to learn but I’m so glad that I don’t have to stay up late studying for tests, exams or to finish projects. When I finish my work, I get to go home every night at 5:00 p.m.,” Tyczka said.



Genesee Valley  
BOCES

*Success Stories Written Here*

# Get Involved With These Student Organizations

Batavia Career & Technical Education Center  
8250 State Street Rd., Batavia, NY 14020  
(585) 344-7711

Mount Morris Career & Technical Education Center  
27 Lackawanna Ave., Mount Morris, NY 14510  
(585) 658-7811



2023-24



• Genesee Valley BOCES



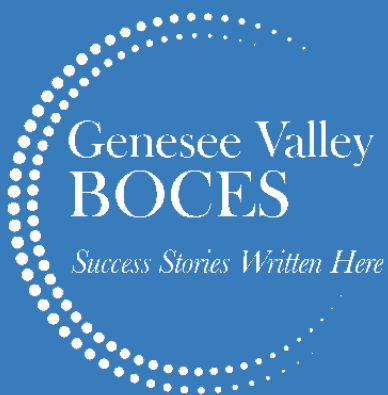
@genesee\_valley\_boces



National Technical  
Honor Society







## MISSION STATEMENT

Our Mission is to lead collaboratively in creating quality solutions to emerging educational challenges.