

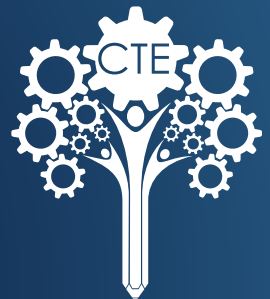


ORANGE-ULSTER BOCES

2025-2026

CAREER AND TECHNICAL EDUCATION

PROGRAM GUIDE



Division of
**CAREER &
TECHNICAL
EDUCATION**



COMPONENT SCHOOL DISTRICTS

- Chester Union Free
- Cornwall Central
- Florida Union Free
- Goshen Central
- Greenwood Lake Union Free
- Highland Falls-Fort Montgomery Central
- Kiryas Joel Village Union Free
- Marlboro Central
- Enlarged City School of Middletown
- Minisink Valley Central
- Monroe-Woodbury Central
- Pine Bush Central
- Port Jervis City
- Tuxedo Union Free
- Valley Central
- Warwick Valley Central
- Washingtonville Central

The Board of Cooperative Educational Services, Sole Supervisory District of Orange-Ulster Counties, operates all programs in compliance with the federal and state laws which prohibit discrimination because of race, color, religion, creed, national origin, political affiliation, sex, age, marital status, sexual orientation, pregnancy, military status, veteran status, genetic predisposition or carrier status, ancestry, disability or any other legally protected status. The Compliance Officer is Kerri B. Stroka, Deputy Superintendent & Title IX/Section 504/ADA Coordinator, (845) 291-0100 Extension 10120.

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CAREER AND TECHNICAL EDUCATION

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ouboces.org/cte

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CTE at the Regional Education Center at Arden Hill
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Work Based Learning Coordinator

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Work Based Learning Coordinator

Maura Creeden Ext. 10319

Vision Statement

The Orange-Ulster BOCES Career and Technical Education Division is diverse and inclusive, committed to preparing students for college and/or career success in partnership with community business, industry partners, and higher education institutions. As educators, we believe in creating learning environments where all students and staff can achieve their personal goals, feel safe, be respected and supported.

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What do you need to know about CTE Programs?

When can I start taking a program at CTE?

Most students are scheduled for CTE when they are in the 11th grade. Your school counselor can review the different options with you. Additional questions can be answered by calling the CTE Guidance Department at (845) 291-0300 x11315.

Would I come to CTE every day? How would I get there?

Classes are offered every day in 2 sessions. Your home district is responsible for providing transportation to and from CTE.

- CTE at Amy Bull Crist Area Educational Center:
AM session 8:05 - 10:35
PM session 12:30 - 3:00
- CTE Health Careers) at the Regional Education Center at Arden Hill:
AM session 7:50 - 10:20
PM session 12:15 - 2:45

Can I choose whether I take an AM or PM program?

That depends upon your home school scheduling needs and program availability. The session you attend is a decision you make with your home district school counselor.

Can I get work experience in my chosen field while attending CTE?

Yes, every CTE program consists of both theory and hands-on components to prepare students for their chosen field. Off-campus work is also available during the two-year program. The Work Based Learning Coordinator will assist in placing students with business mentors in both paid and unpaid work experiences. During senior year, these students may report directly to their work sites up to three days per week where they are evaluated by their business mentors.

Are all CTE courses two-year programs?

No, some are one year programs. The following programs are one-year: Fire Science, Emergency Medical Services and Home Health Aide.



What do you need to know about CTE Programs?



Are CTE courses credit bearing?

Yes, all CTE courses offer four credits each year towards your graduation. Successful completion of a CTE course can meet sequence requirements and also fulfill the requirement for one unit of Career and Financial Management.

I want to participate in sports at my home school. Can I still do that?

Yes, you can still participate in activities and sports while attending CTE. However, when possible you may want to enroll in the AM session to ensure arriving at after-school activities on time.

Are there any costs involved in attending CTE?

Costs for tuition, text books, and transportation are covered by your school district. Some programs require the purchase of uniforms, work boots, safety glasses, or personal tools that are paid for by the student. These requirements are listed on each program information page. Costs indicated are approximate and are subject to change. Financial assistance may be available to qualified students to cover the costs of required uniforms, supplies and tools. See your CTE counselor for more information.



Can CTE courses prepare me for post-secondary education?

Yes, CTE students can earn college credits through articulation agreements (page 44) and dual enrollment opportunities with various colleges. The CTE Guidance Department can provide you with the most current information on these agreements. Contact your CTE counselor for further details on college credit. For the most current and up-to-date information on articulation/dual enrollment agreements please contact Mary Hennessy at (845) 291-0300, extension 10330.

How do I enroll?

Applications for CTE programs are available at your school's guidance office. They must be filled out, signed by your parent or guardian and returned to your home district school counselor.



Learn More

Work Experience

The Work Based Learning Coordinator, in conjunction with the CTE Guidance Department and CTE Instructors, coordinate all work-based learning experiences including Clinical and Co-Op programs.

Clinical

- Require working papers
- Are unpaid placements- the students receive training in lieu of pay
- May occur any time during the student's program at CTE
- Entire class may participate
- Supervised by CTE Instructor

Co-Op

- Require working papers
- May be paid or unpaid
- Usually occur during the second year of the students CTE program
- Typically consist of up to three half days per week
- Independent activities supported by training plans
- Supervised by a mentor at the worksite
- Worksite is visited by the Work Based Learning Coordinator

The CTE Work Based Learning Coordinator offers current students and alumni access to an online jobs board that lists area business opportunities.





Cosmetology

Salary Outlook - \$32,104-\$133,056

If you:

- Like working with people
- Like working with your hands
- Are creative and artistically inclined
- Are dedicated and hardworking

...then this program is for you!

Career Opportunities:

- Hairstylist
- Beauty Salon Owner/Manager
- Make-up Artist
- Skin Care Technician
- Nail Technician
- Color Specialist
- Texture Specialist
- Product Ambassador
- Educator
- Platform Artist
- and so many more!

About the Program:

In the Cosmetology program, students will learn how to cut, color, perm, relax and style hair along with other applications and techniques. Students will also learn nail and skin care applications and techniques.

Available Certification:

Upon successful completion of this course and the 1000 mandated hours, students are eligible and prepared to take the New York State Cosmetology Licensing Examinations.

Topics of Study:

1. Professional Development
2. General Science
3. Hair Care
4. Skin Care
5. Nail Care
6. Business Skills



Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science

Required Supplies:

Cosmetology Kit, work shoes and smock (approximately \$300). Work shoes and smock must be worn in the Cosmetology classrooms.



Learn More



Esthetics

Salary Outlook - \$32,575-\$133,056

If you:

- Like working with people
- Like working with your hands
- Are creative and artistically inclined
- Are dedicated and hardworking

...then this program is for you!

Career Opportunities:

- Esthetician/Skin Care Specialist
- Spa Manager, Supervisor, Owner
- Make-up Artist
- Manufacturer's Representative
- Cosmetic Salesperson/Buyer
- Medical Esthetician (working with Plastic Surgeons, Dermatologist, Oncology and in Medical Day Spas)
- Hair Removal Specialist
- Lash Designer

About the Program:

Students gain daily practical experience working on other students and have the opportunity to provide services to patrons in a clinical setting at CTE.

Topics of Study:

- History of Skin Care and Cosmetics
- Safety and Health
- Bacteriology and Sanitation
- Anatomy, Physiology and Nutrition
- Structure and Functions of the Skin
- Chemistry for Estheticians
- Facial Treatments without Aid of Machines
- Facial Treatments with Aid of Machines
- Techniques for Professional Massage
- Ingredient and Product Analysis
- Skin Analysis
- Removal of Unwanted Hair
- Customer Relations
- Spa Planning and Design
- Aromatherapy
- Make-up Techniques including Air-Brushing and Product Knowledge



Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science

Available Certification:

Upon successful completion of the first year of this course, students are prepared to take the New York State Waxing Licensing Examination and Eye Lash Extension Certification. Upon successful completion of this 2 year course and the 600 mandated hours, students are prepared to take the New York State Esthetics Licensing Examination.

- Certification in Laser Hair Removal

Required Supplies:

Light blue scrubs, closed toe shoes i.e. sneakers or Crocs, 3" binder, 25 dividers and kit (approx.\$125)





Carpentry

Salary Outlook - \$42,063-\$83,232

If you like:

- Building, working outdoors
- Being independent
- Creating with your hands

...then this program is for you!

Career Opportunities:

- Carpenter
- Framer
- Home Renovator
- Sheetrock Installer
- Building Maintenance Worker
- Roofer
- Finish Carpenter
- Contractor / Estimator
- Tool and Equipment Salesperson
- Construction Technician
- Project Manager
- Home Inspector
- Sawyer

Construction Core Topics of Study:

- Basic Safety
- Construction Math
- Hand Tools
- Power Tools
- Blueprints
- Basic Communication Skills
- Basic Employability Skills
- Green Building Practices

Available Certifications:

- OSHA 10 Hour Safety

About the Program:

Students begin in the Construction Careers Core of Instruction as it relates to their specific program of interest. Students develop the skills necessary for employment in the carpentry field. Throughout the program, students gain daily practical experience using tools, equipment and machines of the industry. Students also participate in several building projects. Students completing the OSHA (Occupational Safety & Health Administration) 10 Hour Safety Course will receive a certification card.



Program Topics of Study:

- Hand and Power Tools
- Roofing Applications
- Framing - Floors, Walls, Ceiling and Roof
- Interior Trim
- Reading Plans and Site Layout
- Cabinet Installation
- Thermal and Moisture Protection
- Interior Doors
- Windows and Exterior Doors
- Suspended Ceilings
- Exterior and Interior Finish
- Drywall Installation
- Framing with Metal Studs
- Saw Mill Operation

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science

Required Supplies:

Tool belt, tools, uniform, safety glasses, leather high-top work boots and portfolio binder (approximately \$150). Uniform, safety glasses and leather high-top work boots must be worn in the carpentry shops and worksites.



Learn More



Electrical Construction Technology

Salary Outlook - \$46,104-\$127,997

If you like:

- Troubleshooting
- Working outdoors
- Working with your hands
- Working with tools

...then this program is for you!

Career Opportunities:

- Residential Electrician
- Utility Worker
- Commercial Electrician
- Inside Wireman
- Photovoltaic Installation Technician
- Low Voltage/CATV/Telephone/Alarm Installer

Construction Core Topics of Study:

- Basic Safety
- Introduction to Construction Math
- Introduction to Hand Tools
- Introduction to Power Tools
- Introduction to Blueprints
- Basic Communication Skills
- Basic Employability Skills
- Your Role in the Green Environment
- Green Building Practices

Program Topics of Study:

- Orientation to the Electrical Trade
- Electrical Safety
- Introduction to Electrical Circuits
- Electrical Theory
- Introduction to the National Electrical Code
- Device Boxes
- Hand Bending
- Raceways and Fittings
- Basic Electrical Construction Drawing
- Conductors and Cables
- Residential Electrical Services
- Electrical Test Equipment



About the Program:

Students begin in the Construction Careers Core of Instruction as it relates to their specific program of interest. Students prepare for careers as an electrician. Throughout the program, students gain daily practical experience working on residential, commercial, and industrial wiring.

Available Certifications:

- OSHA 10 Hour Safety
- NCCER Construction Core Certificate
- NCCER Electrical Level 1 Certificate

Required Supplies:

Tool pouch, tools, uniform, safety glasses, leather high-top work boots and portfolio binder (approximately \$150). Uniform, safety glasses, and leather high-top work boots must be worn in the electrical construction shops and worksites.

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science





HVAC/Plumbing

Salary Outlook - \$48,471-\$104,303



If you like:

- Working with your hands
- Working outdoors
- Being independent
- Working with tools

...then this program is for you!

Career Opportunities:

- Plumber
- Pipe Fitter
- Sprinkler Installer
- Plant Maintenance Worker
- Oil Burner and Heating Mechanic
- Supply Salesperson
- HVAC Technician or Installer

About the Program:

Students begin in the Construction Careers Core of Instruction as it relates to their specific program of interest. Students are taught the skills necessary for employment in the areas of plumbing, heating, and related climate control systems. Throughout the program, students gain daily practical experience in all aspects of plumbing and heating. Students have the opportunity to receive EPA 608 Certification.



Learn More

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science

Construction Core Topics of Study:

- Basic Safety
- Introduction to Construction Math
- Introduction to Hand Tools
- Introduction to Power Tools
- Introduction to Blueprints
- Basic Communication Skills
- Basic Employability Skills
- Your Role in the Green Environment
- Green Building Practices

Program Topics of Study:

- Piping and Tubing
- Plumbing Blueprint Reading
- Leak Detection, Evacuation, Recovery, Charging
- Metering Devices
- Cutting, Threading and Joining Components
- Compressors and Heat Pumps

- Installing and Testing DWV Piping Systems
- Heating System Design
- Refrigerant Transition and Recovery
- Soldering and Brazing
- Sizing, Installing, Testing Water Systems
- Ductless Mini Splits Installation

Required Supplies:

Uniform, safety glasses, leather high-top work boots, tools, tool pouch, six foot folding ruler, and portfolio binder (approximately \$150). Uniform, safety glasses and leather high-top work boots must be worn in the HVAC/plumbing shops and worksites.

Available Certifications:

- OSHA 10 Hour Safety
- EPA 608 Refrigerant Handling Certification



Welding

Salary Outlook - \$43,569-\$82,651



If you like:

- Working with your hands
- Building and/or repairing things
- Challenging work
- Being independent

...then this program is for you!

Career Opportunities:

- Maintenance Production
- Millwright
- Motorsports Welder
- Boilermaker
- Steamfitter
- Production Welder
- Iron Worker/Structural Welder
- Rig Welder
- Heavy Equipment Repair

About the Program:

Students learn contemporary metal joining, cutting and reinforcing processes used in manufacturing and fabricating. They work with steel and aluminum, as well as other metals and their alloys. Throughout the program, students gain daily practical experience in all common welding and cutting processes.

YouScience Welding

Technician 1 Topics of Study:

- Basic Safety
- Introduction to Construction Math
- Introduction to Hand Tools
- Introduction to Power Tools
- Introduction to Blueprints
- Basic Communication Skills
- Basic Employability Skills

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science

Program Topics of Study:

- Identification of Metals
- Grinders
- Preparation of Metals
- MIG (GMAW) and TIG (GTAW/Heli-Arc) Welding
- Band Saws
- Fundamentals of Electrical Circuits
- Blueprint Reading and Drawing

- Principles of Shielded Metal Arc Welding (SMAW)
- Structural Fabrication
- Techniques of Shielded Metal Arc Welding (SMAW)
- Plasma Arc Cutting
- Oxyacetylene, Cutting and Brazing
- Design Fabrication
- Air Carbon Arc Gouging

Required Supplies:

Uniform, safety glasses, leather high-top work boots, welding gloves, auto welding shield, and portfolio binder (approximately \$175). Safety glasses, leather high-top work boots, welding gloves, and a welding shield or non-auto shield must be worn in the welding shops and worksites.

Available Certifications:

- OSHA 10 Hour Safety





Culinary Food Trades

Salary Outlook - \$35,000-\$50,000

If you:

- Like working with people
- Have a good working attitude
- Like working with food
- Like being creative
- Like teamwork

...then this program is for you!

Career Opportunities:

- Baker
- Cake Decorator
- Bread and Pastry Chef
- Caterer
- Assistant Chef
- Short Order Cook
- Prep Cook
- Waiter/Waitress
- Assistant Restaurant Manager
- Dining Room Manager
- Purchasing and Inventory Controller

About the Program:

The two-year Culinary Food Trades program uses the Culinary Professional Curriculum. Students prepare for careers in the food and beverage industry and in the hotel and restaurant business. Throughout the program, students gain daily practical experience in the use of modern equipment and food preparation for commercial and institutional settings. Upon successful completion of the course students will be prepared to take the Culinary Professional written and practical exams.

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science
- ServSafe Certification



Topics of Study:

- Introduction to Food History
- Safety & Sanitation
- Product Identification, Tools & Equipment
- Terminology
- Care and Use of Equipment & Utensils
- Food Service Mathematics
- Baking & Decorating
- Advanced Bread & Pastry Baking
- Food Preparation
- Soups, Stocks, Sauces & Seasonings
- Meat Identification & Cooking
- Production Cooking
- Buffets and Catering
- Purchasing & Inventory Control
- Menu Planning
- Recipe Costing

Required Supplies:

Culinary uniform, leather work shoes, classroom and portfolio binders (approximately \$150). Uniforms, hats and shoes must be worn at all times.

Industry Standard Assessment:

- Precision - Culinary Arts



Learn More



Education Careers Academy

Preparing Tomorrow's K-12 & Special Education Professionals

With a growing teacher shortage in the state, there is high demand for new educators. Begin your education in this rewarding profession (New York State Education Department, 2023).

Career Opportunities & Salary Outlook (Based on NYS Department of Labor Statistics 2024)

EDUCATION PATHWAYS:

- Certified Teaching Assistant: \$32,000 - \$45,000
- Special Education Para-educator: \$23,000 - \$35,000

FUTURE CAREER PATHS (with additional education):

- K-12 Teacher, K-12 Special Education Teacher
- Child Psychologist/Behaviorist
- Occupational Therapist
- Speech Therapist
- School Counselor

PROFESSIONAL CLINICAL ROTATIONS

Experience diverse educational settings including:

- K-12 Classrooms
- Special Education Programs
- Occupational Therapy Sessions
- Physical Therapy Observations
- Speech Therapy Settings
- Behavioral Intervention Programs

PROFESSIONAL DEVELOPMENT

- TEACH account setup and professional tracking
- Monthly Professional Development:
 - Instructional Support Services workshops
 - Current educational trends
 - Best practices in teaching
 - Special education strategies



AVAILABLE CERTIFICATIONS

- Teaching Assistant Certification – Level 1
 - Fingerprint clearance (\$102)
- DASA Training (Dignity for All Students Act)
- Child Abuse Recognition Training
- SAVE Training
- First Aid, CPR, AED

COLLEGE DUAL ENROLLMENT & ARTICULATION

- Mount Saint Mary College-earn up to 12 credits through dual enrollment
- SUNY Orange

COMPREHENSIVE CURRICULUM

- Professional Skills: Teaching Techniques, Curriculum Development, Behavior Management, Special Education Strategies, Educational Psychology, Professional Communication
- Practical Experience: Classroom Management, Differentiated Instruction, Assessment & Documentation, Educational Technology, Therapeutic Approaches

ACADEMIC INTEGRATION

- Career & Financial Management Credit
- ELA Credit (NYSS aligned)
- Mathematics Credit (NYSS aligned)

IDEAL CANDIDATES ARE:

- Passionate about K-12 education
- Interested in special education
- Patient and understanding
- Creative problem-solvers
- Strong communicators
- Team players
- Responsible and reliable

Begin your journey to becoming an education professional! Contact your guidance counselor to learn more about this innovative NYS-approved CTE program.



Learn More



Emergency Medical Services*

If you:

- Are a good communicator
- Work well under pressure
- Like caring for people
- Are a team player
- Are seeking excitement in the medical field

...then this program is for you!

Career Opportunities:

- EMT/Paramedic
- Firefighter
- Healthcare Professional (nurse, doctor, physician's assistant)
- Emergency Room Technician
- 911 Dispatcher

About the Program:

Students will learn about the many lifesaving skills and techniques such as CPR and treatment of traumatic injuries in preparation for a wide variety of careers in the emergency response and healthcare sectors. This one-year program provides a foundation in efficient and immediate care to critically ill and injured patients and transportation to the medical facility. Students who successfully complete this program are eligible to take the New York State Emergency Medical Technician (EMT) examination.

Available Certification Opportunities:

- American Heart Association – Healthcare Provider Basic Life Support
- New York State Certified Emergency Medical Technician (EMT)
- FEMA Incident Command System 100
- FEMA Incident Command System 700
- FEMA - AWR-160 - WMO/ Terrorism Awareness for Emergency Responders



Topics of Study:

- CPR/AED
- Patient Assessment
- Airway Management
- EMS Operations
- Pharmacology
- Medical Emergencies
- Shock/Resuscitation
- The Human Body
- Trauma
- Special Patient Populations

Required Supplies:

Uniform, watch with a sweep second hand, portfolio binder, binder for “Do Now” classwork, pocket mask with oxygen outlet.

Student must be 17 years old by May 31 of the current school year.

*This is a one-year program.

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) based on current NYSS
- Mathematics – based on current NYSS
- Technical Science
- Health



Learn More



Fire Science*

Salary Outlook - \$32,000-\$50,000

If you:

- Like working with and helping people
- Like working as a team
- Like challenging and demanding work
- Are energetic and highly motivated
- Are dependable

...then this program is for you!

Career Opportunities:

- Firefighter
- Military Firefighter
- Fire Dispatcher
- 911 Dispatcher
- Wildland Firefighter
- Forest Ranger
- Fire Investigator
- Fire Inspector
- Fire Marshall

About the Program:

Upon successful completion of the program, students are eligible to sit for the New York State Basic Exterior Firefighter Operations (BEFO) exam, followed by the SCBA/Interior Firefighting Operations (IFO) exam. Program follows the New York State Office of Fire Prevention and Control curriculum. Students who are successful with these exams are then qualified to take the National Firefighter 1 exam.

- SCBA/Interior Firefighting Operations (IFO)
- Basic Exterior Firefighting Operations (BEFO)
- Hazardous Materials Operations
- Confined Space Awareness
- Defense Against Weapons of Mass Destruction Awareness

Certification Opportunities:

- IFO (Interior Firefighting Operations)
- BEFO (Basic External Firefighting Operations)



- American Heart Association CPR, First Aid and AED
- FEMA Emergency Management Institute Certification: IS-100C: Introduction to the Incident Command System, ICS-100
- FEMA Emergency Management Institute Certification: IS-700B: Introduction to the National Incident Management System

Topics of Study:

- Introduction to: Apparatus and Volunteer & Career positions
- Fire Behavior
- Chain of Command- Incident Command System (ICS-100)
- Arson Awareness
- Communications
- Hazardous Materials First Responder Operations
- Ropes
- Weapons of Mass Destruction Awareness
- Live Fire Training
- Confined Space Safety
- Vehicle Fires
- Field trips to different fire stations
- Extrication
- Building Search

- Fire Extinguishers
- Ventilation
- Power Equipment
- Building Construction
- Ground Ladders

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Technical Science
- Technical Math

Required Supplies:

Uniform, black sneakers, 1" binder for portfolio, a marble notebook and a portfolio binder (approximately \$85). Students are required to wear a uniform and be clean shaven.

All students must submit the physical form signed by their health care provider and a completed medical questionnaire signed by the parent/guardian and student.

* This is a one-year program.



Learn More



Law Enforcement

Salary Outlook - \$32,000-\$50,000

If you:

- Like working with and helping people
- Like challenging and demanding work
- Are energetic, highly motivated and dependable

...then this program is for you!

Career Opportunities:

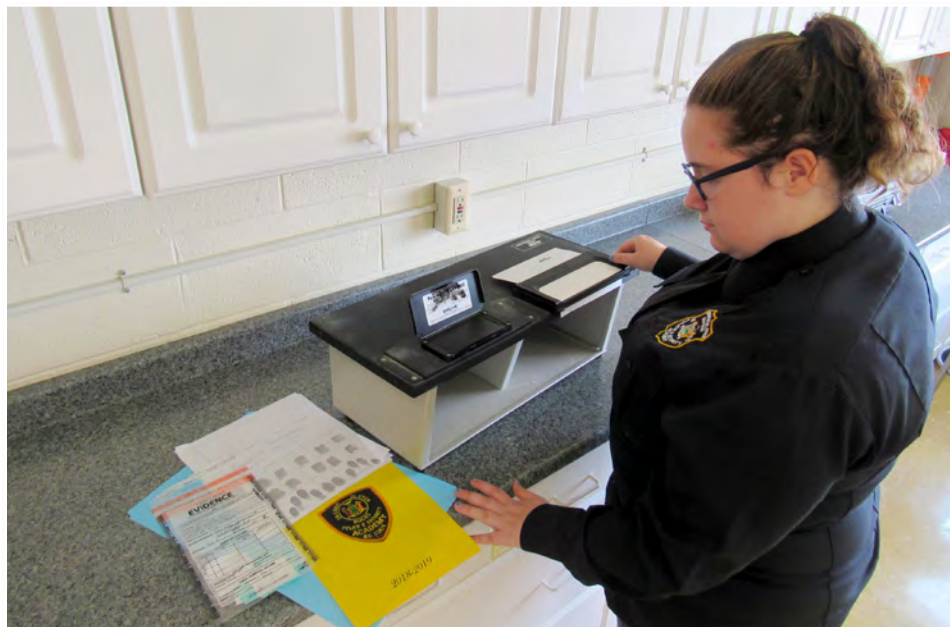
- Security Officer
- Patrol Officer
- Court Officer
- Corrections/Parole Officer
- Private Investigator
- Security Manager/Consultant
- Loss Prevention Specialist
- State Trooper
- Local Police Officer
- Military Police Officer
- Forensic Technician
- Federal Agent
- Social Service Worker
- Paralegal/Law Office Work

About the Program:

Students prepare for employment with County, State, and Federal government, private security, military, and law enforcement agencies or for further education in criminal justice.

Required Supplies:

One 2 inch, 3 ring binder (approximately \$10). Uniform First Year= \$45.00 (approximately). Uniform Second Year= \$75.00 (approximately). Uniforms must be worn in the law enforcement program.



Topics of Study:

- Fingerprinting/Latent Prints
- Criminal Law and Criminal Trial Procedure
- Investigations Procedures and Techniques
- Patrol Methods
- Clinical Work Experiences
- Emergency Response Procedures
- Detection Equipment
- Crime Prevention Equipment
- Forensic Science
- Defensive Tactics
- Environmental Conservation
- Terrorism
- Forensic Psychology
- Procedural Justice
- Environmental Conservation
- Domestic Violence
- Mock Trial
- Crime Scene
- Identity Theft
- Sexual Harassment
- Firearm Safety
- Radio Communications

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science
- Participation in Government (.5 credit second year)

Available Certifications:

- Police Mountain Bicycle Training
- American Heart Association CPR, First Aid and AED (fee for card applies)
- Firearms Safety Certification
- New York State 8 hour and 16 hour Security Officer Certification
- New York State 8 hour Annual In-service
- Security Officer Training
- Environmental Conservation
- Hunter Safety Certificate
- Ropes Challenge Course
- Stop the Bleed
- NARCAN



Learn More



Animal Science (Veterinary Assistant)

Salary Outlook - \$30,000-\$40,000

If you:

- Are interested in pursuing a career in veterinary medicine
- Enjoy biology and the field of medicine
- Enjoy hands-on learning
- Look forward to being challenged

...then this program is for you!

Career Opportunities:

- Veterinary Assistant
- Veterinarian
- Laboratory Technician
- Zoologist
- Wildlife Biologist
- Animal Groomer
- Farmer or Rancher
- Animal Behaviorist/Trainer

About the Program:

Animal Science is a two-year program that prepares students who are interested in pursuing a career in veterinary medicine, animal science, wildlife biology, or zoology. It can be used as a college preparatory course for those interested in furthering their education in the sciences, research, or medicine. The students work with a wide variety of animal species in and out of the classroom, gaining experience with real, innovative equipment used in the veterinary industry.

Topics of Study:

- Safety and Sanitation
- Animal Care and Management
- Medical Terminology and Vocabulary
- Anatomy & Physiology
- Animal Behavior
- Hospital Protocols & Procedures
- Surgical Assisting
- Animal Disease
- Pharmacology
- Animal First Aid and CPR
- Grooming Skills
- Wildlife Science & Zoology



Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts)- based on current NYSS
- Mathematics- based on current NYSS
- Technical Science

Required Supplies:

- Scrub top, scrub bottom, work shoes, binder and portfolio binder (approximately \$150).

Certification Opportunity

- Petsaver First Aid CPR

Employment Opportunities:

Various animal-related careers are covered in this course. Students can obtain a job where they will gain relevant experience as they go on to pursue their college education in veterinary medicine, animal science, wildlife biology, or zoology. Veterinary technicians assist the veterinarian by performing diagnostic tests, laboratory procedures, calculating and administering medications, monitoring anesthesia, and more. Employment of veterinary technicians is projected to grow 19 percent from 2018 to 2028, much faster than the average for all occupations.



Learn More



Heavy Equipment

Salary Outlook - \$40,000-\$55,000



If you like:

- Working outside
- Working with large machines
- Are conscientious and responsible

...then this program is for you!

Career Opportunities:

- Bulldozer Operator
- Backhoe Operator
- Excavator Operator
- Forklift Operator
- Heavy Equipment Mechanic
- Mechanics Assistant
- Metal Fabricator
- Skid Steer Operator
- Small Engine Mechanic
- Welder

About the Program:

Students are prepared for employment opportunities in maintenance and operation of equipment used in the construction industry. Instruction includes preventive maintenance, diagnostic service, and operations. Throughout the program, students

gain daily practical experience working with a variety of equipment.

Available Certifications:

- NCCER Construction Core
- OSHA 10 Hour Safety
- NCCER Heavy Equipment Operations Level 1
- NCCER Heavy Equipment Operations Level 2
- OSHA Forklift Training and License

Topics of Study:

- Heavy Equipment Operation
- Construction Site Safety
- Diesel Engine Repair and Maintenance
- Small Engine Repair
- Cooling Systems
- Intake and Exhaust Systems
- Welding and Metalworking
- Drive Train and Undercarriages
- Surveying and Land Measurement
- Hydraulic Systems

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science

Required Supplies:

Leather high-top steel toe work boots, safety glasses, reflective safety vest, hard hat, gloves and portfolio binder (approximately \$150). Students must wear uniform, safety glasses and work shoes in the shops and additionally must also wear their reflective safety vest, hard hat and gloves at work sites.



Learn More



Dental Careers

Salary Outlook (Dental Assistants - \$39,147-\$55,098)

Employment of dental assistants is projected to grow 8 percent from 2023 to 2033, faster than the average for all occupations.

If you like:

- Fast-paced environment
- Working with people
- Flexible work schedule

...then this program is for you!

Career Opportunities:

- Dental Assistant (in private practice, hospitals or dental clinics)
- Office Manager
- Receptionist/Bookkeeper
- Product Representative

About the Program:

Students will learn the skills needed to assist in all phases of dentistry. Students will have the opportunity to complete a clinical rotation and assist in actual dental procedures.

Through hands-on experience, students will develop skills as receptionists, office managers and chairside assistants. They will also learn how to use personal computers for patient records, billing and correspondence. Students will have the opportunity to work with new technology in digital radiography.

All students must annually submit the Health Careers Academy physical form signed by their health care provider, including appropriate immunizations, and be able to work with no restrictions prior to participating in clinical.

Topics of Study:

- Anatomy
- Emergency Management
- Preparing Restorative and Impression Materials
- Infection Control and Sterilizing Techniques
- Maintaining Computerized Dental Records



- Dental Radiography
- Communication
- Preventative Oral Health Techniques

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science
- Health

Health Certifications

Available:

Precision Certification in Dental Assisting I and Dental II

Many graduates attend college to pursue further education in dental hygiene, dentistry or other health related professions. As well as work as a dental assistant after graduation.

Required Supplies:

Uniform, Nursing Shoes, Lab Coat, and Fluid Impervious long jacket.





Exercise Science and Personal Training

Salary Outlook (Personal Trainer - \$46,480) (Physical Therapy Assistant - \$58,740)

Employment of fitness trainers is projected to grow 14 percent from 2023 to 2033, much faster than the average for all occupations.

Employment of physical therapist assistants is projected to grow 19 percent from 2023 to 2033, much faster than the average for all occupations.

Career Opportunities:

- Certified Personal Trainer
- Physical Therapy Aide
- Occupational Therapy Aide
- Health Club Sales Associate
- Group Exercise Instructor

After receiving advanced training from post-secondary schools:

- Physical Therapy Assistant
- Occupational Therapy Assistant
- Strength & Conditioning Coach
- Rehabilitation Specialist
- Exercise Physiologist
- Athletic Trainer
- Physical Education Teacher

About the Program:

Exercise Science has become one of the largest growing fields in healthcare. As medical costs skyrocket, the emphasis on preventative and rehabilitative measures have risen. Students will learn both the theories and practices of Exercise Science/Personal Training and their relationship to overall health and well-being. Upon completion of this two year program, students will have a thorough understanding of the key components of this science and will be able to obtain entry level positions in the field of physical/occupational therapy, health and fitness development or public health education. Many students continue on to further their studies at four year colleges and medical/health institutions.



Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science

Topics of Study:

- Human Anatomy & Physiology
- Human Movement/Kinesiology
- Nutrition/Weight Management
- Bio-Energetics (Energy use)
- Sports Performance
- CPR/First Aid/AED
- Behavioral Science
- Fitness Screening & Analysis
- Exercise Prescription and Program Design
- Orthopedic Assessment
- Physical Rehabilitation

Certification Opportunity:

Students in this program will have the opportunity to join several prestigious National Organizations

that oversee and promote the use of Exercise and Physical Activity. Upon completion of the program, students may take an Industry Standard Assessment (ISA) which recognizes their knowledge and abilities within the field of Exercise Science and Personal Training. Graduates will have the additional opportunity to take a national certifying test, at a reduced cost, from the National Council on Strength and Fitness. Average salary ranges for individuals who enter the field of Exercise Science and Personal Training can range from \$32,000 for an entry position to \$110,000 for advanced positions.

Required Supplies:

Program lab shirt (purchased), black athletic pants, athletic sneakers, water bottle, watch with a second hand or digital seconds, computer access from home, flash drive, and portfolio binder (approximately \$125).



Learn More



Home Health Aide

Salary Outlook (Home Health Aides) - \$34,705-\$41,842

Employment of home health aides is projected to grow 21 percent from 2023 to 2033, much faster than the average for all occupations.

If you:

- Like working with people
- Are a good communicator
- Are able to multi-task
- Are flexible and independent

...then this program is for you!

Career Opportunities:

- Home Health Aide

About the Program:

Students will learn through clinical training and classroom preparation how to provide valuable skills in conjunction with professional nurses in a home healthcare setting. Services range from health related tasks, such as obtaining vital signs and performing range motion exercises, to providing personal care, light housekeeping and meal preparation. Students will complete 16 hours in a clinical setting.

All students must annually submit the Health Careers Academy physical form signed by their health care provider, including appropriate immunizations, and be able to work with no restrictions prior to participating in clinical.

Topics of Study:

- Role of Home Health Aide
- Clients Rights & Communication
- Infection Control & Safety
- Human Development, Aging, Dying, Hospice care
- Positioning, Transfers & Ambulation
- Nutrition
- Meal planning and preparation
- Working with special needs clients
- Rehabilitation & Restorative care
- Mental Illness
- Creating clean, safe and healthy environments
- Managing time, energy and money



Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) based on current NYSS
- Mathematics - based on current NYSS
- Health

Required Supplies:

Uniform, watch with a sweep second hand, and portfolio binder.





Principles of Health Occupations



About the Program:

The Principles of Health Occupations program is taken during the student's junior year. Students begin by studying the core competencies that are relevant to many health occupations. Having mastered the core competencies, students progress to an advanced level to develop competencies specific to selected occupational areas. The students will also be given an opportunity to explore various health care fields.

Integrated throughout the two years of instruction are theoretical concepts, skills and attitudes that help the student to become successful in gaining employment and/or continuing their education.

Students completing Principles of Health Occupations may choose to enter Allied Health Assistant, Nurse Assistant, Pharmacy Technician, or Emergency Medical Services in their second year if they have met the following requirements:

1. Received a **65%** average in Principles of Health Occupations in order to be recommended to enter the Nurse Assistant program.
2. Received a **75%** average in Principles of Health Occupations in order to be recommended to enter Allied Health Assistant or Pharmacy Technician.

Required Supplies:

Uniform and non-canvas shoes in all white or all black leather or leather-like with no designs, mesh, holes or laces (no clogs). Also required: a watch with a sweep second hand, and portfolio binder (approximately \$100).

If you like:

- The study of the human body and its functions (Anatomy and Physiology)
- To work in the health care environment
- To work with people

...then this program is for you!

Advancement Opportunities:

- Allied Health/Medical Assistant
- Nurse Assistant
- Pharmacy Technician
- Emergency Medical Services

Topics of Study:

- Introduction to Health Care Industry
- Medical Terminology
- Career Awareness and Exploration
- Anatomy and Physiology
- Infection Control
- Growth and Development
- Wellness: Healthy Life Practices
- Safety Practices
- Legal and Ethical Responsibilities
- Communications
- Employability Skills
- Emergency Procedures
- Leadership Skills

Available Academic Credit:

Students earn credit by first attending the POH program and then completing a second year program through Allied Health, Nurse Assistant, or Pharmacy Technician.

All students are required to submit the Health Careers Academy physical form signed by their health care provider, including appropriate immunizations, and be able to work with no restrictions prior to participating in clinical.

Available Certification:

- American Heart Association Heartsaver First Aid CPR and AED
- Stop the Bleed



Learn More



Allied Health Assistant

Salary Outlook (Medical Assistants) - \$38,682-\$53,875

Employment of medical assistants is projected to grow 15 percent from 2023 to 2033, much faster than the average for all occupations.

If you:

- Are outgoing and relate well with various types of people
- Are caring and compassionate
- Are a good communicator
- Are flexible, independent and motivated – a multi-tasker
- Are a team player
- Enjoy diversity in the medical field – a challenge

...then this program is for you!

Career Opportunities:

Medical Assistants work in:

- Physicians' offices
- Public and private hospitals including: inpatient and outpatient facilities
- Other health practitioners such as: chiropractors, optometrists and podiatrists
- Outpatient care centers
- Public and private educational services
- Ambulatory health care services
- State and local government agencies
- Employment services
- Medical and diagnostic laboratories

About the Program:

The Allied Health Assistant program provides an opportunity for students to fill a diverse range of duties in the healthcare industry.

All students must annually submit the Health Careers Academy physical form signed by their health care provider, including appropriate immunizations, and be able to work with no restrictions prior to participating in clinical.



Available Certification:

Upon successful completion of the program, the student is able to take the nationally-recognized **Certified Clinical Medical Assistant Exam.**

Topics of Study:

- Anatomy & Physiology
- Common Diseases and Disorders
- Legal and Ethical Responsibilities
- Medical Terminology
- Patient Care and Communication
- Patient and Office Safety
- Clerical/Bookkeeping Functions
- Processing Insurance Claims
- Laboratory procedures
- Cardiopulmonary procedures
- Diagnostic Tests
- Pharmacology
- Phlebotomy
- Employability skills

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science
- Health

Required Supplies:

Uniform, watch with a sweep second hand, and portfolio binder.

Prerequisites include drug testing and a background check.





Nurse Assistant

Salary Outlook (Nurse Assistants) - \$38,506-\$51,909

Employment of nurse assistants is projected to grow 4 percent from 2023 to 2033, about as fast as the average for all occupations.

If you like:

- Working with people
- Caring for patients
- Being independent

...then this program is for you!

Career Opportunities:

- Nurse Assistant (Nursing Homes, Long Term Care Facilities, Assisted Living Rehabilitation Facilities, In-Patient & Out-Patient Facilities and Hospitals)
- Group Home Therapy Aide

About the Program:

The Nurse Assistant program provides an opportunity for the student to obtain multiple clinical skills along with a sound theory base in nursing science. Students will have the opportunity to provide direct patient care at the bedside at an extended care facility.

All students must annually submit the Health Careers Academy physical form signed by their health care provider, including appropriate immunizations, and be able to work with no restrictions prior to participating in clinical.

Available Certification:

Upon successful completion of the program, students are eligible to sit for the **New York State Certification Exam for Nurse Assistant.**

Topics of Study:

- Anatomy and Physiology
- Patient Safety
- Structure and Functions of the



- Human Body
- Employability Skills
- Common Disorders and Related Care Procedures
- Communications
- Fundamental Nursing Skills
- Care of the Older Patient
- Safety Practices
- Legal and Ethical Responsibilities
- Personal Hygiene
- Nutrition and Fluids
- Medical Terminology
- Computer Skills

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science
- Health

Required Supplies:

Uniform, watch with a sweep second hand, and portfolio binder.



Learn More



Pharmacy Technician

Salary Outlook (Pharmacy Technicians) - \$35,936-\$49,659

Employment of pharmacy technicians is projected to grow 7 percent from 2023 to 2033, faster than the average for all occupations.

Career Opportunities:

- Pharmacy Technician

About the Program:

Pharmacy Technicians play an integral role in today's medical field. They are the public-facing members of a pharmacy's staff who work as the liaisons between patients and pharmacists, doctors and insurance companies. Pharmacy technicians assist pharmacists in providing effective, appropriate, and safe pharmacy services. They primarily assist in providing medications and other health care products to patients. Patients and pharmacists alike rely on pharmacy technicians to help keep the pharmacy running smoothly and efficiently by performing many pharmacy-related tasks.

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science

Topics of Study:

- Pharmacy Business Operations
- Principles of Pharmacology & Pharmaceuticals
- Applicable Standards & Regulations
- Prescription Reading & Interpretation
- Drug Identification
- Prescription Preparation



Certification Opportunity:

Upon successful completion of the program, the student is able to take the exam for the certification of Pharmacy Technician (ExCPT). The average New York Pharmacy Technician's salary is one of the highest in the country. Salaries of New York State Pharmacy Technicians can be as high as \$58,000. Salaries throughout New York State range from \$35,000 to \$58,000.

Demand for pharmacy technicians is expected to grow over 32 percent in the next 10 years because of the increase in elderly individuals as well as advancements and new requirements in the pharmaceutical industry.

Required Supplies:

Uniform, watch and portfolio binder (approximately \$100).





Engineering Design and Architecture (CAD)

Salary Outlook - \$45,000-\$90,000

If you like:

- Architecture and engineering
- 3-D CG rendering
- Designing and building things
- Being able to choose what you want to create
- Hands-on projects and problem solving

...then this program is for you!

Career Opportunities:

- Architect: Residential, Commercial, Surveyor
- Engineer: Mechanical, Electrical, Robotics, Production
- Product Designer
- 3D Modeler
- Rapid Prototyping/CnC Operator
- CAD Operator
- Manufacturing

About the Program:

Engineering Design and Architecture is a two-year program where students will learn the skills that Engineers and Architects need to be successful. One year is Engineering and one year is Architecture.

In Engineering, students will learn about the design process, how to use Autodesk Inventor, and 3D printers/CnC machines to design and create anything from desk lamps to video game prop replicas! During this year, students will take their ideas from the screen to reality and learn how products are designed and built.

In Architecture, students will learn about house design, Autodesk Revit, and building modeling to design and create houses and commercial structures. During this year, students will design and create their own building designs and learn how architects work in the field.



Topics of Study - Architecture:

- Residential House Design
- Surveying
- Site Plans
- Civil Engineering
- Commercial Site Design
- Building Plan Development
- Electrical/Plumbing/HVAC Planning
- Modeling Houses
- 3D Printing
- Plotter Printing

Topics of Study - Engineering:

- Design Process
- 3D Drawings: Parts, Assembly, Presentation, Sheets
- 3D Printing/Rapid Prototyping
- CG Rendering
- CnC (computer controlled) Milling
- Product Design/Manufacturing
- Mechanical Engineering
- Robotics

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS

Required Supplies:

Flash drive and portfolio binder (approximately \$25).

Certification Opportunity:

At the completion of the Architecture Curriculum Year and Engineering Curriculum Year, the student will take the Autodesk Certified User Exam in Revit (Architecture) and Inventor (Engineering). If the exam is passed, the student will receive a Certification in the software from Autodesk as a certified user of Revit/Inventor.



Learn More



Computer Networking and Cybersecurity (Cisco CCNA)

Salary Outlook - \$60,000-\$90,000

If you like:

- Preventing illegal hacking
- Cyber security
- Creating and designing networks
- Defending against cyber attacks
- Working in a high growth field where your skills are in demand

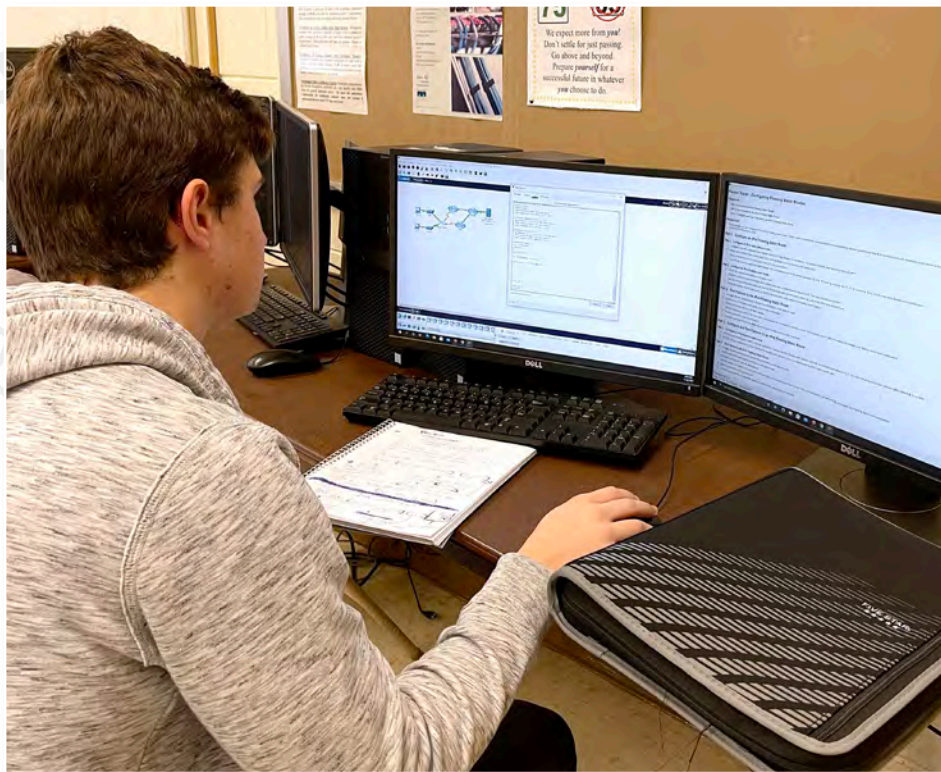
...then this program is for you!

Career Opportunities:

- Network Technician
- Network Administrator
- Network Engineer
- Cyber Security Guru
- Network Architect
- Cyber Security Forensic Expert
- Cloud Network Security Specialist
- Ethical Hacker

Topics of Study:

- Learning Details of Attacks
- Black/White Hat Hackers
- IPv4 and IPv6 Addressing
- Wireshark Capture Data
- Kali Linux
- Segmenting Local Area Networks
- Create EtherChannels
- Dynamic Host Configuration Protocol (DHCP)
- LAN Security
- Static and Dynamic Routing
- Building Firewalls
- Network Address Translation
- VPN and IPsec
- Network Virtualization
- Network Management Design and Automation
- Windows and Linux
- Network Security
- Network Attacks
- Protecting the Network
- Cryptography
- Endpoint Security and Analysis
- Security Monitoring
- Intrusion Data Analysis
- Incident Response Handling
- Protocol Models



About the Program:

This two-year program provides comprehensive coverage of topics that IT Professionals and security experts need to be successful in this high-growth field. Topics range from networking fundamentals to advanced applications including Cybersecurity.

Students will learn with the support of interactive media, then apply what they have learned using Packet Tracer simulation software. Students will configure devices as well as design, troubleshoot and secure networks of various sizes.

In the hands-on lab they will be introduced to a real world environment where they will work with the network equipment as well as Windows and Kali operating systems in order to learn about cybersecurity and how to recognize and prevent cyber attacks.

Students will get the opportunity to compete in the Cyber Patriot cybersecurity competition.

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science

Certification Opportunities:

Upon full completion of the course, students will be prepared to take the following Industry Certification Exams:

- CCNA (Cisco Certified Network Associate)
 - CCNA Cybersecurity Operations
- College credits are also available.

Required Supplies:

Flash drive, CCNA Portable Command Guide, and portfolio binder.



Learn More



Computer Programming and Video Game Development

Salary Outlook - \$50,000-\$100,000

If you like:

- Working with computers
- Solving problems with computers
- Being creative

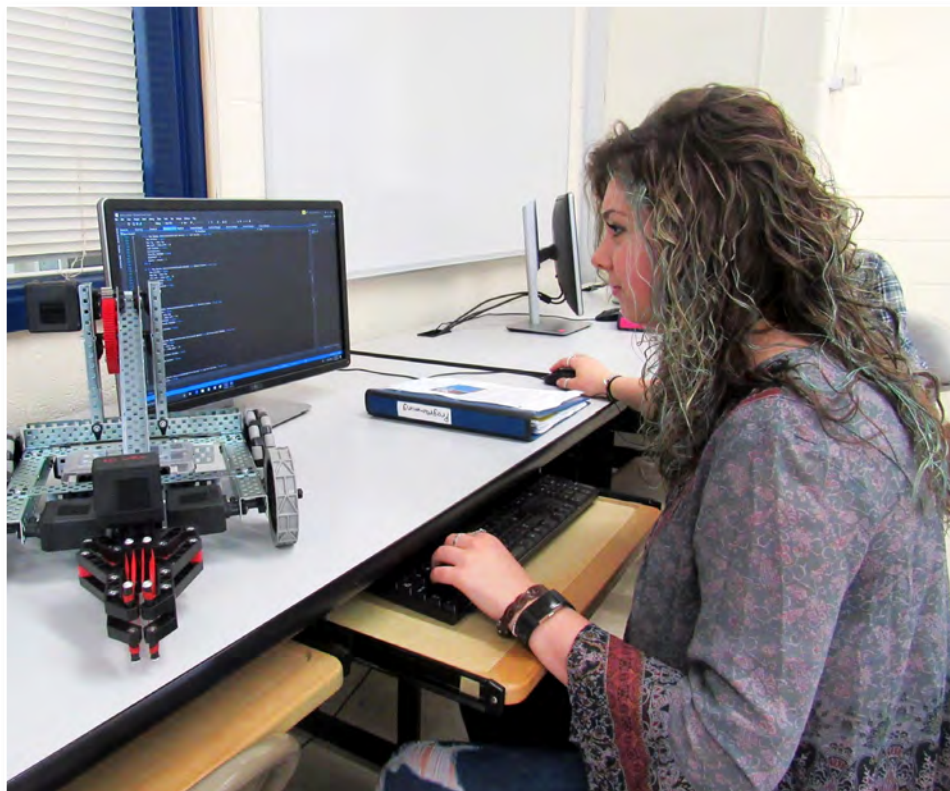
...then this program is for you!

Career Opportunities:

- App Developer
- Computer Programmer
- Computer Scientist
- Computer Support Specialist
- Robotics Engineer
- Software Analyst
- Software Developer
- Software Engineer
- Video Game Developer
- Web Developer

About the Program:

Students will become familiar with various computer applications and computer programming languages while developing troubleshooting techniques. This program prepares students to become a part of this rapidly expanding field and to enter higher education. Students may participate in an internship or clinical experience. Students will complete several projects and will also complete their own final project. Students will also have the opportunity to participate in several robotics competitions and e-sports competitions.



Topics of Study:

- App Development
- Artificial Intelligence
- C
- C++
- Computer Applications
- Computer Graphics
- Computer Science
- CSS
- Discrete Mathematics
- E-Sports
- HTML
- Java
- JavaScript
- Operating Systems
- Python
- Roblox
- Robotics
- Robotics Competitions
- Scratch
- Software Engineering
- Unity
- Unreal Engine
- Video Game Development
- Visual Basic
- Visual C++
- Web Development

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS

Required Supplies:

Flash drive and portfolio binder.

Certification Opportunities:

Upon completion of the program, students may be eligible to take the C++ Certified Entry-Level Programmer (CPE) Exam and/or Certified Entry-Level Python Programmer (PCEP) Exam.



Learn More



Mechanical Engineering Systems

(Formerly Mechatronics and Robotic Engineering) Salary Outlook - \$40,000-\$65,000

Career Opportunities &

Salary Outlook (Based on NYS Department of Labor Statistics 2024)

ENTRY-LEVEL POSITIONS:

- Production Mechanic:
\$45,000 - \$55,000
- Industrial Electrician:
\$50,000 - \$65,000
- Powerfluid Technician:
\$48,000 - \$58,000
- Manufacturing Technician:
\$42,000 - \$55,000
- Automation Technician:
\$45,000 - \$60,000
- Maintenance Technician:
\$40,000 - \$52,000

PROGRAM OVERVIEW:

This innovative two-year program combines Mechanical, Electrical, and Engineering disciplines to develop versatile problem-solvers ready for industry demands. Students learn to:

- Design creative solutions for real-world problems
- Master industry-standard technologies
- Develop hands-on technical skills
- Apply engineering principles to practical challenges

YEAR 1 CURRICULUM

Technical Foundations:

- Technical Drawing & CAD
- Basic Electrical Principles
- Electronics & Measurement
- Coding with Arduino
- Motors, Controls & Sensors
- PLC & Automation
- Industrial Safety
- Mechanical Robotics
- Production Processes
- Machine Operations
- Mechanical Components



YEAR 2 ADVANCED STUDIES

Industry Applications:

- Hydraulics & Pneumatics
- 3D Printing Technology
- Electro-mechanical Robotics
- Blueprint Reading
- Precision Measurement
- Product Development
- Fabrication & Machining
- Systems Maintenance
- Capstone Projects

INDUSTRY CERTIFICATIONS

Gain Valuable Credentials:

- Arduino Certification
- OSHA 10 Safety Certification
- OSHA 30 Safety Certification

ACADEMIC INTEGRATION

Earn Credits Toward Graduation:

- Career & Financial Management
- ELA (aligned with current NYSS)
- Mathematics (aligned with current NYSS)

COLLEGE AGREEMENT

- SUNY Adirondack

CAPSTONE EXPERIENCE

Year 2 students complete an innovative final project that:

- Addresses real-world challenges
- Demonstrates creative problem-solving
- Applies comprehensive technical skills
- Showcases design-to-completion process
- Meets industry standards
- Prepares for professional presentation

IDEAL CANDIDATES SHOW INTEREST IN:

- Problem-solving
- Technology and innovation
- Hands-on learning
- Engineering and design
- Computer programming
- Building and creating
- Technical systems

Direct your students toward a future in engineering and advanced manufacturing. Contact us to learn more about this NYS-approved CTE program.



Learn More



Hospitality/Workplace Learning

Salary Outlook - \$25,000-\$35,000

If you like:

- Hands-on learning
- A supportive environment
- Learning new skills
- Meeting new people

...then this program is for you!

Career Opportunities:

- Entry-level Food Service
- Prep Cook
- Stockroom
- Dietary Aide
- Counter Person
- Dishwasher
- Customer Service

All students must annually submit the Transitional Programs physical form signed by their health care provider, including appropriate immunizations and two Tuberculosis skin tests (PPD), and be able to work with no restrictions prior to participating in clinical. Students will need working papers if they are under 18 years of age.

About the Program:

The Hospitality/Workplace Learning Program is designed to provide secondary-aged students (16-21) with experiences to prepare them for the transition from the educational setting to an active and productive adult life. On-site job training, fundamentals of the foodservice industry and experiences with the life skills required as a part of daily living are incorporated into this program.

Transitional Program is designed for secondary students ages 16 to 21 with multiple disabilities and/or developmental delays to provide experiences that will best prepare



them for the transition from school into the adult world. The program provides a supportive learning environment encompassing academics, social skills, pre-vocational and life skills.

This program is geared for developmentally disabled students and is designed to move students from school to the workforce upon graduation by immersing them in a work environment. It also helps prepare them for post-secondary education.

Students being considered for this program should be mature, responsible, trustworthy, and have a good working attitude. Students with severe behavioral impediments would most likely not be suitable for this program.

Required Supplies:

Two complete uniforms, shoes appropriate for each program and 2 portfolio binders (approximately \$100).



Learn More



Vehicle Maintenance

Salary Outlook - \$25,000-\$35,000



If you like:

- Working with your hands
- Learning about new technology
- Developing new skills and confidence

...then this program is for you!

Career Opportunities:

- Auto Service Technician
- Fleet Maintenance Personnel
- Mechanical Maintenance Operator
- Tire Specialist
- Lubrication Specialist
- Exhaust and Brake Specialist
- New Car Detailer
- Used Car Appearance Technician
- Technicians Helper

About the Program:

This program provides hands-on training for skills needed for entry level employment in the automotive service industry. Basic automotive skills are practiced in the shop and are reinforced through off-site clinical

experiences at automotive dealerships and repair shops. (Students participate in a variety of positions at local community work sites.)

Students requiring additional time to develop the skills needed to transition to the workplace may attend Vehicle Maintenance for a second year with approval from their instructor and guidance counselor.

Topics of Study:

- Tire Service and Repair
- Tune-up Service
- Wheels/Tires
- Electrical System Service
- Cooling System Service
- Drum/Disc Brake and ABS
- Steering and Suspension and Powertrain
- Exhaust System Service
- Brake System Service
- Chassis Maintenance
- Parts Delivery and Receiving
- Alternative Fuel Systems

- Basic Tools, Materials, and Equipment
- Safety
- Lubrication
- Heating and Air Conditioning
- Computer Technology
- Vehicle Emission Systems
- Technical Reading and Writing

Required Supplies:

Two-piece uniform, leather work boots, safety glasses and portfolio binder (approximately \$150). Uniforms, safety glasses and leather work shoes must be worn in the automotive shops and at clinical sites.





Auto Body/Restoration

Salary Outlook - \$30,000-\$40,000



If you like:

- Working on automobiles and light trucks
 - Problem solving
 - The challenge of changing technology
 - Taking pride in your work
 - Learning by doing
 - Demonstrating your artistic ability
- ...then this program is for you!**

Career Opportunities:

- Collision Repair Technician
- Unibody Specialist and Assistant
- Refinishing Specialist and Assistant
- Claims Adjuster/Estimator
- Frame Specialist and Assistant
- Detailer
- Fabricator— Original & Custom

Certification Opportunity:

- ASE Refinishing
- (I-CAR) Inter-Industry Conference on Auto Collision Repair Based Curriculum
- Online I-CAR Curr. Badge System

National Automotive Technician Education Foundation (NATEF) areas of study:

- Collision Estimating
- Non-Structural Analysis and Damage Repair
- Plastics and Adhesives
- Painting and Refinishing
- Structural Analysis
- Welding

About the Program:

Students in the Auto Body/Restoration program are prepared for careers in the field through the use of the latest technologies and state of the art equipment. Throughout the program, students gain daily practical experience by working on vehicles. Selected students may be eligible for clinical and internship experiences at local repair facilities.

Successful completion of the two-year Auto Body/Restoration program can reduce the two years of experience required for Automotive Service Excellence (ASE) certification by one year.

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science

Required Supplies:

Two-piece uniform, leather work boots, safety glasses, binders for notes, flash drive, clear sheet protectors and portfolio binder (approximately \$150). Uniforms, safety glasses and leather work shoes must be worn in the automotive shops and at clinical sites.



Learn More



Automotive Technology

Salary Outlook - \$40,000-\$50,000

If you like:

- Working on automobiles
- Solving problems
- The challenge of changing technology
- Computers
- Exercising your mind
- Working with your hands

...then this program is for you!

Career Opportunities:

- Alignment Specialist
- Auto Technician
- Exhaust and Emissions Control Specialist
- Brake Specialist
- Service Technician
- Service Writer
- Undercar Service Technician
- Parts Specialist

About the Program:

Students learn to repair foreign and domestic cars and light trucks using the latest techniques and computerized diagnostic equipment. Throughout the rigorous two-year National Automotive Technicians Education Foundation (NATEF) certified program, students gain daily practical experience working on vehicles provided by CTE and the students. Selected students may be eligible for clinical experience at local repair facilities. Eligible students may use successful course completion toward Automotive Service Excellence (ASE) certification. Many students continue their education at colleges and technical schools. Articulation Agreements with many of these colleges and technical schools give students advanced standing by awarding college credit for their CTE course work.

In addition to the program being NATEF certified, the automotive instructors are ASE certified in their areas of instruction.



Successful completion of the two-year Automotive Technology Program, can reduce the two years of experience required for Automotive Service Excellence (ASE) certification by one year.

Topics of Study:

- Automotive Electrical/Electronics Systems
- Alignment/Wheels/Tires
- Online Auto Information Systems
- Career Development
- Computerized Engine Control
- Cooling & Lubrication Systems
- Drum, Disc and ABS Brake Systems
- Customer Relations
- Emission Systems
- Engine Analysis
- Engine Drivability
- Exhaust Systems
- Fuel Systems
- NYS Inspections
- Oscilloscope/Scan Tool Diagnostics
- Strategy Based Diagnostics
- Steering, Suspension and Powertrain Systems

Available Certification:

- Snap-On NC3 Certifications:
 - Hand Tool Safety
 - Shop Electrical
 - 596 DMM
 - Solus Scan Tool
 - Hunter Alignment
 - Batteries

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science

Required Supplies:

A two-piece uniform, leather work boots, safety glasses, binders for notes, flash drive, clear sheet protectors and portfolio binder (approximately \$150). Uniforms, safety glasses and leather work shoes must be worn in the automotive shops and at clinical sites.



Learn More



Aviation

Salary Outlook - \$90,000-\$100,000

Career Opportunities:

- Airline Pilot
- General Aviation
- Air Traffic Controller
- Dispatcher

After receiving advanced training from post-secondary schools:

- Commercial Pilot
- Flight Instructor
- Instrument Pilot
- Multi-Engine Pilot

About the Program:

This course will teach you the skills necessary to obtain your Federal Aviation Administration (F.A.A.) Private Pilot Certificate, the first step in an exciting and rewarding career in aviation. The classroom portion of the program is conducted at the Orange-Ulster BOCES Career and Technical Education Center. The flight portion of the course is conducted at Take Flight Aviation LLC located at Orange County airport in Montgomery, NY. It is there where you will be taking one-on-one flight lessons in their state-of-the art aircraft. The flight portion teaches you how to safely operate the airplane during all phases of flight.

Topics of Study:

- Meteorology
- Instrumentation
- Airplane Systems
- Flight Environment
- Communications
- Aircraft Performance
- Human Factors
- Principles of Flight
- Drone Operations



Activities include:

- Flight Planning
- Simulator Training
- Actual flight time in a single-engine airplane
- Aviation Night Operations

Certification Opportunity:

Upon successful completion of the program, the student can be eligible to take the Private Pilot's exam to obtain their license. The approximate cost of the FAA Private Pilot's Knowledge exam is \$160 and the practical exam is \$800. Additionally, students have the opportunity to obtain an FAA Commercial Drone Operators License after completion of the FAA UAS knowledge test. (\$160)

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS
- Technical Science

Required Supplies:

An aviation kit (approximately \$500). First year students MUST pass an FAA medical, and pass a drug test. Second year students also must pass the drug test.



Other Requirements:

- FAA Medical
- Drug test
- English proficient
- US citizenship or TSA approval



Learn More



Graphic Design & Digital Media

Salary Outlook - \$38,000-\$55,000

Career Opportunities &

Salary Outlook (Based on NYS Department of Labor Statistics 2024)

ENTRY-LEVEL POSITIONS:

- Graphic Designer: \$45,000 - \$55,000
- Production Artist: \$40,000 - \$48,000
- Digital Marketing Designer: \$42,000 - \$52,000
- Junior Illustrator: \$38,000 - \$48,000
- Junior Animator: \$45,000 - \$55,000

IS THIS PROGRAM RIGHT FOR YOU?

Do you...

- Have a creative eye for design
- Think conceptually and solve visual problems
- Enjoy working with cutting-edge technology
- Want to turn your artistic talents into a career?

INDUSTRY-STANDARD SOFTWARE TRAINING

Master the complete Adobe Creative Suite:

- Adobe Photoshop
- Adobe InDesign
- Adobe Illustrator
- Adobe Animate

COLLEGE AGREEMENTS

- SUNY Orange
- Pennsylvania College of Technology

COMPREHENSIVE CURRICULUM

Develop expertise in:

- Graphic Design & Advertising
- Digital Illustration & Animation
- Social Media Marketing
- Typography & Color Theory
- Page Layout & Print Technology
- Digital Photo Manipulation



ACADEMIC INTEGRATION

Earn credits toward graduation:

- Career & Financial Management
- ELA (aligned with current NYSS)
- Mathematics (aligned with current NYSS)

COLLEGE & CAREER READY

- Portfolio preparation for college applications
- Industry-recognized certifications
- Work-based learning opportunities
- Professional networking connections

Contact your guidance counselor to learn more about enrolling in this NYS-approved CTE program.





Digital Cinema (Formerly Digital Filmmaking and Post Production)

Salary Outlook - \$35,000-\$65,000

Launch Your Career in the Booming Hudson Valley Film Industry

REGIONAL INDUSTRY GROWTH

- Over \$60 million in direct regional spending from film production (2022)
- Major expansion of production facilities including Umbra Stages' 40,000 sq ft facility in Newburgh
- Up to 40% NY State Film Tax Credit driving industry growth
- Recent major productions in Orange County include:
 - HBO Max's "Pretty Little Liars: Original Sin"
 - Hulu's "Life & Beth"
 - HBO's "The White House Plumbers"

Career Opportunities &

Salary Outlook (Based on NYS Department of Labor Statistics 2024)

ENTRY-LEVEL POSITIONS:

- Independent Producer/Director: \$45,000 - \$65,000
- Videographer/Camera Operator: \$40,000 - \$55,000
- Editor/Assistant Editor: \$42,000 - \$58,000
- Production Assistant: \$35,000 - \$45,000
- Sound Operator: \$38,000 - \$52,000

PROFESSIONAL EQUIPMENT & SOFTWARE

Industry-Standard Technology:

- Canon 5D & C100 Cameras
- Professional Lighting Systems
- Audio Recording Equipment
- Mac Workstations
- Adobe Creative Suite
- Professional Grip Equipment

COMPREHENSIVE CURRICULUM

Pre-Production:

- Story Development
- The Hero's Journey
- Screenwriting
- Storyboarding
- Shot Design
- Production Planning



Learn More



Production:

- Camera Operation
- Lighting Design
- Audio Recording
- Directing
- Production Management
- Equipment Operation

Post-Production:

- Video Editing
- Sound Design
- Color Grading
- Motion Graphics
- Visual Effects
- Final Output

HANDS-ON PROJECTS

Create Professional Content:

- Short Films
- Documentaries
- Music Videos
- Public Service Announcements
- Commercial Productions
- Portfolio Projects

PROGRAM BENEFITS

- Hands-on production experience
- Industry-standard equipment
- Professional portfolio development
- Collaborative project teams
- Real-world client work
- Industry connections
- Exposure to local film industry

ACADEMIC INTEGRATION

- Career & Financial Management
- ELA Credit (NYSS aligned)
- Mathematics Credit (NYSS aligned)

COLLEGE PARTNERSHIP

- Dual enrollment opportunity with SUNY Orange
- Seamless transfer pathway to Applied Science in New Media
- College credits while in high school

CERTIFICATION

- Industry Standard Assessment
- Precision - Video Production 1
- Portfolio Development

IDEAL CANDIDATES ARE:

- Creative thinkers
- Team players
- Strong communicators
- Adaptable
- Detail-oriented
- Tech-savvy
- Story-driven

CAREER SKILLS DEVELOPED

- Creative Problem Solving
- Team Collaboration
- Project Management
- Technical Proficiency
- Visual Storytelling
- Client Communication
- Time Management
- Leadership

Join Orange County's expanding film industry! With major studios, increasing production, and strong state support, there's never been a better time to enter this dynamic field. Contact your guidance counselor to learn more about this innovative NYS-approved CTE program.



Fashion and Interior Design

Salary Outlook - \$35,000-\$80,000



If you:

- Are creative
- Like to draw & design
- Appreciate color, style and trends in the marketplace
- Enjoy sewing
- Are competitive and motivated
- Have strong communication skills

...then this program is for you!

Career Opportunities:

- Fashion Designer
- Fashion Illustrator
- Textile/Surface Designer
- Fashion Merchandiser
- Patternmaker
- Wardrobe Stylist
- Apparel Manufacturer
- Showroom Manager
- Fashion Editor
- Costume Designer
- Interior Designer
- Interior Decorator

Industry Standard Assessment:

- YouScience - Fashion Design Studio

Available Academic Credit:

- Career and Financial Management
- ELA (English Language Arts) - based on current NYSS
- Mathematics - based on current NYSS

Topics of Study:

- Fashion Illustration
- Color Theory
- Sewing & Construction of Apparel/ Home Furnishings
- Textile Science
- Fabric/Surface Design
- Merchandising
- Pattern Making Techniques
- Adobe Photoshop
- Portfolio Development
- Career Research
- Foundations of Fashion and Interior Design
- Fashion History

About the Program:

The world of fashion and interior design offers challenging, exciting, and financially rewarding career opportunities. Explore and develop the skills needed to enter into these exciting career fields. This program combines design theory with hands-on projects. A variety of topics and assignments are incorporated into the curriculum to give students a solid foundation and broad overview of both industries. During the two-year program, students will create a portfolio by building upon the basics of design, illustration, textiles, computer graphics and merchandising.

Required Supplies:

Portfolio binder 1" and 2", clear sheet protectors, set of 48 professional quality colored pencils, additional project supplies required throughout the two-year program as per the instructor (approximately \$150 per year).



Learn More

Career and Financial Management

This course will allow students to document their plans for post high school success, introduce them to the broad-based universal foundation skills (SCANS skills) needed in the workplace, understand how academic skills are used in the world of work and begin to develop the financial literacy skills needed to become responsible consumers and citizens. The curriculum is integrated throughout all career-technical programs. Career and Financial Management (CFM) is part of the portfolio project required of all career-technical students and serves as part of the final assessment in each career-technical program. The New York State Career Development and Occupational Studies Learning Standards are addressed through Career and Financial Management instruction.

English Language Arts - Based on New York State Standards

This course presents integrated commencement level English and Language Arts skills within the context of most career-technical programs. ELA is part of the portfolio project required of all career-technical students and serves as part of the final assessment in each career-technical program. The New York State Learning Standards for English Language Arts are addressed through the ELA instruction - based on New York State Standards.

Math Based On New York State Standards

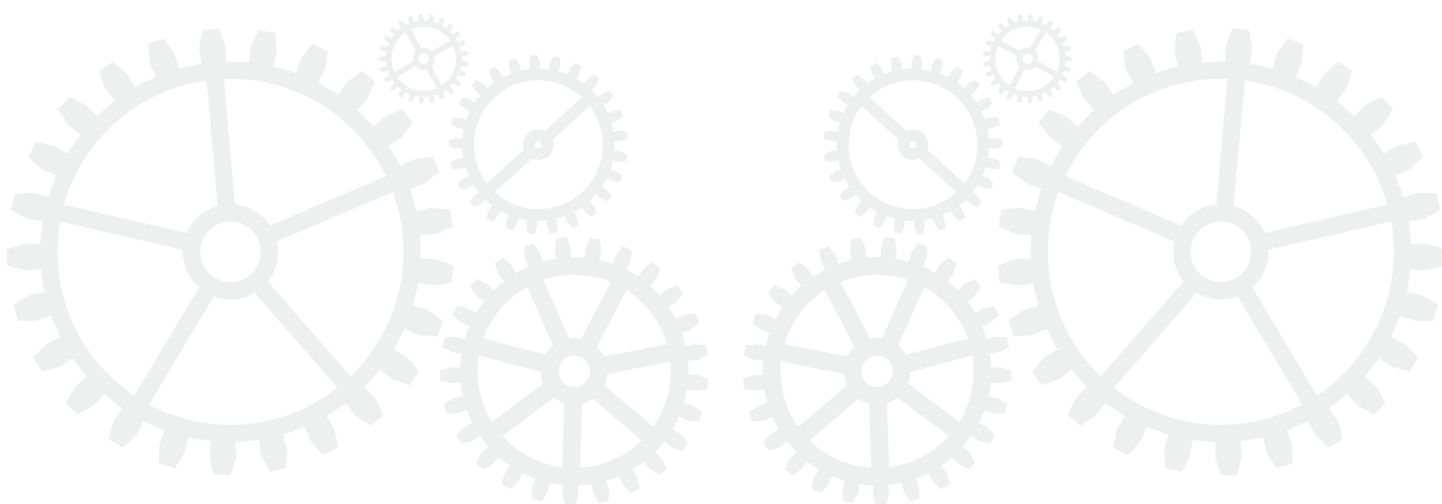
This course presents integrated commencement level mathematics skills within the context of most career-technical programs. Math is part of the portfolio project required of all career-technical students and serves as part of the final assessment in each career-technical program. The New York State learning Standards for Mathematics are addressed through the Math instruction - based on New York State Standards.

Technical Science

This course presents commencement level science skills within the context of most career-technical programs. Technical Science may be part of the portfolio project required of all career-technical students and serves as part of the final assessment in designated career-technical programs. This will vary by program. The New York State learning Standards for Science are addressed through the Technical Science instruction.

Health

This course presents commencement level health skills within the context of some career-technical programs. Health may be part of the portfolio project required of all career-technical students and serves as part of the final assessment in designated career technical programs. This will vary by program.



The Learning Center is an innovative concept which provides a variety of services to all students in Career and Technical Education. The Learning Center concentrates on two areas: academic assistance and behavior management. These two areas may be dealt with together or separately depending on the needs of the student. The philosophy behind this program is to encourage respect for all people and their differences, while fostering a predictable school environment. The Learning Center tries to build inner control over behavior by showing students they have choices and decisions to make that will affect their academic and professional future.

Academic services provided to students include:

- Providing and administering IEP testing modifications
- Providing 504 Accommodations relating to IDEA legislation
- Offering a variety of study skills techniques
- Accommodating student assistive technology needs
- Facilitating resource instruction in the classrooms
- Providing additional assistance in Math, English, and Science as used in the classrooms
- Aid in Academic Intervention

The purpose and intent of The Learning Center academic assistance is not to replace the home school resources or services, but rather to support these services and provide additional academic performance assistance to students experiencing difficulty in our educational environment. The aim is to strengthen student areas of weakness and prevent inappropriate classroom behavior that may develop as a result.



The Learning Center promotes the Orange-Ulster BOCES mission that all students can learn. We strive to promote life long learning and self-disciplined thinkers. In addition, we enhance student academics and social behaviors to promote achievement. This allows our students to become successful across variations in curriculum and facilitates productive communication among students, staff, and eventually in the workplace. Ultimately, the Learning Center hopes to provide students with all the necessary skills to be productive and successful in both industry and our community.

Student Activities

FFA

The primary purpose of the **National FFA Organization (also known as Future Farmers of America)** is to develop agriculture leadership, cooperation and citizenship. Students learn how to speak in public, conduct and take part in meetings, handle financial matters, solve their own problems and assume civic responsibility. Students elect their own officers and carry out activities with minimal supervision from their instructor, who serves as club advisor. Students participate in competitions and other award activities.

FEA

The **Future Educators Association** is a national organization sponsored by Phi Delta Kappa, a national teaching fraternity. The primary purpose of FEA is to expose students who aspire to become educators to the responsibilities of classroom teachers. We provide opportunities to explore teaching as a career option by gaining a realistic understanding of the nature of education and the role of a teacher. FEA strives to promote excellence in students interested in the teaching profession by promoting academic achievement, developing a positive self-image and encouraging leadership responsibilities. The Orange-Ulster FEA has an agenda which involves working with local and national colleges, community organizations related to the education of children and the teachers of local school districts.

HOSA

The **Health Occupations Students of America** is a national student organization endorsed by the U.S. Department of Education and the Health Science Technology Education (HSTE) Division of ACTE. HOSA's two-fold mission is to promote career opportunities in the health care industry and to enhance the delivery of quality health care to all people. HOSA's goal is to encourage all health occupations instructors and students to join and be actively involved in the HSTE-HOSA Partnership. The mission of HOSA is to enhance the delivery of compassionate, quality health care by providing opportunities for knowledge, skill and leadership development of all health science technology education students, therefore, helping students to meet the needs of the health care community.

NTHS

The **National Technical Honor Society** recognizes, honors and encourages CTE students who excel at their career and technical studies and who possess good character and attitude. In order to qualify for nomination, a student must maintain a 95% average or better in CTE classes, have 6 or fewer absences by the end of the third quarter, no CTE or home school suspensions and be involved in school and/or community service. Students who meet the criteria and successfully complete the nomination and evaluation process are inducted in a formal candlelight ceremony each spring.

SkillsUSA

SkillsUSA is an educational association for students enrolled in any of the CTE programs. It is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel. The national organization promotes leadership, lifelong learning, and dignity of work. The local chapter focuses on teamwork, character development through skills competitions and community service. Each spring selected students have the opportunity to compete against other New York State CTE students in their technical career area.

Articulation Agreements

CTE has developed Articulation Agreements with several colleges and technical schools that allow students to earn college credits or advanced standing while enrolled in Career and Technical Education.

Most of the Articulation Agreements have the following requirements:

- The student must maintain at least a B average in his/her CTE program.

- The student must enroll at an articulated college or trade school.
- The student must successfully complete either a challenge exam or an upper level course. (This requirement may not be necessary for all programs or colleges).

The following is a partial list of schools with which CTE has Articulation Agreements. Since agreements often

change or new agreements may have been added since press time, you should contact the CTE Guidance Department for current information. Also, if you plan on attending a post-secondary school that does not have an Articulation Agreement, please contact Mary Hennessy at (845) 291-0300, ext. 10330.

Alfred State College

Berkeley College

Byrant & Stratton College

Columbia-Greene Community College

Corning Community College

Crouse Hospital School of Nursing

Culinary Institute of America

DeVry University

Dominican College

Excelsior College

Fulton-Montgomery

Helene Fuld College of Nursing

Herkimer County Community College

Hudson Valley CC

ITT Technical Institute

Johnson and Wales

Lincoln Tech

LIM College

Mohawk Valley CC

Monroe College

Nashville Auto-Diesel College

New England Institute of Technology

Paul Smith's College

Pennsylvania College of Technology

Rochester Institute of Technology

SUNY Adirondack

SUNY Cobleskill

SUNY College of Technology at Alfred

SUNY College of Technology at Canton

SUNY Delhi

SUNY Dutchess

SUNY Farmingdale

SUNY Genesee CC

SUNY Morrisville

SUNY Orange

SUNY Rockland

SUNY Suffolk CC

SUNY Sullivan

The College of Westchester

University of Northwestern Ohio

For the most current and up-to-date information on Articulation Agreements please contact Mary Hennessy at (845) 291-0300, ext. 10330, or visit our website at www.ouboces.org/articulation-agreements



Career and Technical Education
at the Amy Bull Crist Area Education Center
53 Gibson Road, Goshen, NY 10924



Career and Technical Education
at the Regional Education Center at Arden Hill
4 Harriman Drive, Goshen, NY 10924



Division of
CAREER &
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