

CAREER & TECHNICAL EDUCATION

COURSE CATALOG



**CAREER
& TECHNICAL
EDUCATION**
at the Center for Instruction, Technology & Innovation

2022-2023



WHAT *is* CTE?

CTE focuses on exploring different occupations and trades through hands-on learning. We offer 18 programs to tap into your existing talents while developing other skills that may lead to a lifelong career choice.



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WELCOME LETTER



Welcome!

Do you like to work with your hands? Do you like to make or manipulate things? Do you like to problem solve? Are you a creative person? If you answered yes to any of these questions, then you are starting in the right place to Build Your Future! On behalf of the CTE faculty and staff at CiTi BOCES, I am excited to share the 2022-2023 CTE Course Catalog. Our intent is to offer emerging and innovative programs centered around the technical, academic and employability skills necessary to prepare students for a competitive 21st century career and the education necessary to enter a post-secondary institution.

At CiTi BOCES, we offer 18 distinct CTE programs for students to choose from. No matter your interests, CTE more than likely has something for you. Programs are taught by professionals who have worked or currently work in their field and know the technical skills needed to give our students a leg up over the competition. Please read over this catalog and work with your school counselor to determine what program may be best for you.

We are hoping you will consider joining our CTE family and allow us to help Build Your Future! If you have any concerns or questions about a specific course, please contact one of our CiTi counselors at 315.963.4251. We look forward to working with you and offering you the best educational experience possible.

Sincerely,

Michael D. Thurlow

Career and Technical Education Principal



SCHOOL DISTRICTS SERVED



Altmar-Parish-Williamstown
Central School District



Central Square
School District



Fulton City School District



Hannibal Central
School District



Mexico Academy &
Central School District



Oswego City
School District



Phoenix Central
School District

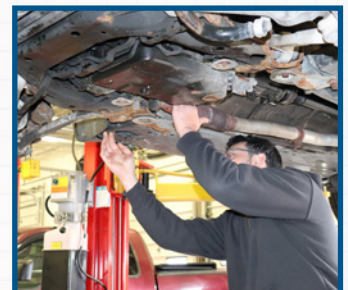


Pulaski Academy
& Central School District



Sandy Creek Central
School District

BUILD Your FUTURE
with Career & Technical Education



GENERAL INFORMATION

MARLA BERLIN

Director of College & Career Education

MIKE THURLOW

CTE Principal

DAVID EASTMAN

*Counselor for
Central Square School District,
Oswego City School District
& Sandy Creek Central School District*

COLLEEN MARTIN

*Counselor for
Altmar-Parish-Williamstown
Central School District, Hannibal Central
School District & Pulaski Academy
& Central Schools*

RYAN WARNER

*Counselor for
Fulton City School District,
Phoenix Central School District and
Mexico Academy & Central School District*

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Ted Williams, Pulaski Academy & Central School District

Brian Haessig, Oswego City School District

The Center for Instruction, Technology & Innovation shall continue its long-standing policy of providing educational opportunities for all students who wish to enroll in any course without regard to race, sex, religion, national origin or creed. The Title IX Compliance Officer is Kristen Foland.

GENERAL INFORMATION

Program Length: The course descriptions indicate whether a program is designed for one or two years. In order for students to be exposed to the entire curriculum (and be prepared for a licensing or certification exam, if applicable) they must participate in the entire program. Students may choose to participate in a two-year program for only one year. For example, a senior has the option of enrolling in a two-year program for one year. This student will participate in the basic learning of the first year.

Industry Alignment: As NYSED approved CTE programs, our curriculum is aligned with the appropriate industry standards. For example, the welding curriculum mirrors the American Welding Society standards for entry-level welders; the Nursing Assistant curriculum is directly aligned with the NYS standards for students preparing for the NYS Certified Nurse Aide certification.

Integrated Academic Coursework: Through the NYSED CTE program approval process, our program curriculum is reviewed by a minimum of three academic teachers from outside of our organization. Those teachers compare the rigor of the academic content (i.e., math, English, science) and determine if students enrolled in the CTE program can also be awarded academic credit. For example, NYS certified math teachers have reviewed the Welding Technology curriculum and have determined that students are engaged in a sufficient amount of math curriculum at the commencement level for math credit to be awarded. Integrated academic coursework takes place within the CTE program instruction on a regular basis.

College Credit Opportunities: Most programs offered through CTE have an articulation agreement with a community college, university or trade union that allows the student to apply knowledge already mastered toward specific courses. Many CTE programs also offer college credit directly through successful participation in the CTE program. For example, a student who successfully completes Advanced Metal Manufacturing may receive 3 credits at Cayuga Community College for MMT101. (Please note that the availability of offering specific college courses may be updated. Students will be notified at the beginning of the school year exactly what college courses may be offered within the CTE programs.)

**Students who opt to participate in only one year of a two-year year program will not receive full academic credit, industry credentials or be eligible for a 4+1 Pathway exam.*

Credential Opportunities: Students have the opportunity to earn credentials in CTE programs. If a student successfully demonstrates the knowledge and/or skills necessary, as determined by business, industry and/or labor associations, then he/she receives a credential. For example, students who demonstrate mastery in welding may be eligible to receive the American Welding Society Entry Level 1 Welder Qualification.

Industry (Technical) Assessments: Industry (or technical) assessments are exams that require students to demonstrate skill and knowledge mastery in their CTE subject matter. These assessments are nationally and/or state recognized and are based on industry standards. For example, eligible Nursing Assistant students will take the New York State Nurse Aid Competency Exam; successful Auto Technology students may be eligible to receive the Automotive Service Excellence (ASE) Education Foundation exam on light maintenance and repair.

Program Supplies, Materials, Assessments Provided: CiTi provides students with safety and industry-specific items needed for participation in the CTE program. For example, Heavy Equipment Repair and Operation students receive work boots, safety glasses, hard hats and outdoor jackets. CiTi also funds all expenses related to students taking industry assessments if taken prior to high school graduation. (Please note that items provided for program participation may change.)

Student Resources

CTE offers all students the opportunity to participate in various clubs. These student clubs offer leadership training, community service projects and social activities.

- Culinary Arts Signature Club
- Future Farmers of America (FFA)
- National Honor Society (NHS)
- National Technical Honor Society (NTHS)
- SkillsUSA
- Student Safety Committee
- Student Senate
- Student Technology Integration Committee
- Women in Trades

TOP TEN

Top Ten Reasons to Enroll in a CiTi BOCES' CTE Program:

- 10.** All required student supplies and materials are provided for all students.
- 9.** Students are eligible to earn ELA, math, science, health, and/or PE credit within state approved programs. It's a two-for-one elective and academic credit earned at once!
- 8.** Updated, industry-appropriate equipment and tools are available for students.
- 7.** Learn from NYS certified teachers with years of industry experience.
- 6.** Meet with potential employers on a regular basis through shop visits, guest speaking, and worksite visits.
- 5.** Earn work-based learning hours.
- 4.** Participate in an internship.
- 3.** 4+1 Pathway exams are available in all state-approved programs.
- 2.** Dual and/or articulated college credits are available in all state-approved programs.
- 1.** 94% of CiTi BOCES' CTE students graduate high school on time!

The majority of our CTE students have shared that they have always had an interest in the program area that they are currently enrolled in and that their goals are to work within the field they are learning or to continue their education in the field. CiTi BOCES' CTE programs are a great way for students to support the successful completion of their high school requirements while preparing for their futures.

What great opportunities for students of Oswego County!

Marla Berlin

Director of College & Career Education



ADVANCED METAL MANUFACTURING



Advanced Metal Manufacturing will introduce students to the skills and training of design, machining, fabricating and welding. Using engineering drawing techniques and CAD-CAM software, students will design projects starting with raw materials such as steel, aluminum and brass. Machine tools and fabricating equipment will then be used to assemble projects.

CAREER OPPORTUNITIES:
METAL FABRICATOR
CAD ENGINEER
WELDER
MACHINIST

Program Length: Two years

Industry Alignment: National Institute for Metalworking Skills (NIMS) Standards; Occupational Safety & Health Administration (OSHA) Standards

Integrated Academic Coursework: Career and Financial Management (1/2 credit); Math (1/2 credit per year)

4+1 Pathway Option: NIMS – Machining Level 1

College Credit Opportunities: Articulation Agreement: Lincoln Technical Institute; Dual Credit: Cayuga Community College: MMT 101 Machine Tools I

Credential Opportunities: NIMS – Machining Level 1 – Measurement, Materials and Safety; 10-hour OSHA General Industry Safety & Health Credential; Technical Endorsement on Graduation Diploma

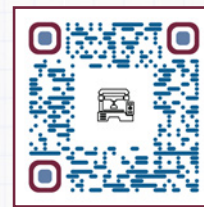
Industry Assessments: NIMS - Machining Level 1– Measurement, Materials and Safety Certification

Program Supplies, Materials, Assessments

Provided: Work boots; safety glasses; 10-hour OSHA training certificate, NIMS Exam



**Scan to find out
more information!**



AGRICULTURAL STUDIES

CAREER OPPORTUNITIES:
FARMER
FARM MANAGER
AGRICULTURAL ENGINEER
BUSINESS OWNER

Students in the Agricultural Studies program will be engaged in a variety of agricultural activities on CiTi Farms. This program will explore sustainable farm-to-table pathways through plant sciences, horticulture, small animals and conservation. Students will collaborate with other programs (e.g., Construction Technology, Heavy Equipment, Welding Technology, Culinary Arts, etc.) on various projects to maintain and expand CiTi Farms. Students will connect science and business topics while learning about the wide variety of careers available throughout the field of agriculture.

Program Length: Two years

Industry Alignment: Agriculture, Food and Natural Resources Cluster Plant Systems Pathway; Occupational Safety & Health Administration General Industry- Agriculture (OSHA 10)

Integrated Academic Coursework: Not eligible until program is an approved NYSED CTE Program

4+1 Pathway Option: Not eligible until program is an approved NYSED CTE Program

College Credit Opportunities: This is a new program. College Credit opportunities have yet to be established

Credential Opportunities: 10-hour Occupational Safety & Health Administration General Industry – Agriculture (OSHA)

Industry Assessments: Precision Exam – Agricultural Science I; 10-hour Occupational Safety & Health Administration General Industry – Agriculture (OSHA)

Program Supplies, Materials, Assessments

Provided: Work boots, safety glasses, work gloves, hi-visibility jackets; 10-hour OSHA training certificate



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AUTO BODY REPAIR



Each damaged vehicle presents a new problem to be solved. Auto body technicians solve these problems by using specialized equipment and tools to straighten frames, remove dents, replace parts, and accurately match paint finishes. Students will assess collision characteristics based on physical damage. Students will practice procedures and techniques which develop perceptual capabilities and skills to produce high-quality auto body repairs and provide professional customer service.

CAREER OPPORTUNITIES:
AUTO BODY TECHNICIAN
PAINTER
PARTS MANAGER

Program Length: Two years

Industry Alignment: Inter-Industry Conference on Auto Collision Repair (ICAR); Automotive Service Excellence (ASE); ASE Education Foundation; Occupational Safety & Health Administration (OSHA)

Integrated Academic Coursework: Not eligible until program is an approved NYSED CTE Program

4+1 Pathway Option: Not eligible until program is an approved NYSED CTE Program

College Credit Opportunities: Articulation Agreements: Lincoln Technical Institute; Ohio Technical College; Universal Technical Institute

Credential Opportunities: ASE — Hours Toward Painting and Refinishing ASE Accreditation and Test Preparation; ASE Education Foundation Entry Level Certification; 10-hour OSHA General Industry Safety and Health Credential

Industry Assessments: Precision Exams - Automotive Collision Repair; ASE Education Foundation Entry-Level Painting and Refinishing Certification Exam

Program Supplies, Materials, Assessments Provided: Work boots; safety glasses; respiratory physical; 10-hour OSHA Training Certificate; ASE Education Foundation Entry Level Painting and Refinishing Certification Exam



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AUTO TECHNOLOGY



Through the Auto Technology program, students learn the various aspects of vehicle diagnosis, repair and maintenance. The units of study include eight required National Institute for Automotive Service Excellence modules: Engine Performance, Steering/Suspension Systems, Engine Repair and Automatic/Manual Transmissions and Transaxles, Electrical/ Electronics, Brakes, Heating and Air Conditioning and Tires and Wheels.

CAREER OPPORTUNITIES:
MECHANIC
AUTO PARTS SALESPERSON
INSURANCE ADJUSTER

Program Length: Two years

Industry Alignment: Automotive Service Excellence (ASE); ASE Education Foundation; Occupational Safety and Health Administration - Automotive (OSHA)

Integrated Academic Coursework: Career and Financial Management (1/2 credit); Science (1/2 credit per year)

4+1 Pathway Option: ASE Educational Foundation: Maintenance & Light Repair

College Credit Opportunities: Articulation Agreements: Ohio Technical College; Lincoln Technical Institute; SUNY Canton; SUNY College of Technology at Delhi

Credential Opportunities: ASE Education Foundation Entry-Level Certification Exam - Time Toward ASE Accreditation and Test Preparation; 10-hour Occupational Safety and Health Administration (OSHA) General Industry Safety and Health Credential; Technical Endorsement on Graduation Diploma Industry

Industry Assessments: ASE Education Foundation Entry-Level Certification Exam - Maintenance and Light Repair

Program Supplies, Materials, Assessments Provided: Work boots; safety glasses; 10-hour OSHA certificate; ASE Education Foundation Entry-Level Certification Exams



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COMPUTER CODING

```
def operation == "MIRROR_Y":
    mirror_mod.use_x = False
    mirror_mod.use_y = True
    mirror_mod.use_z = False
elif operation == "MIRROR_Z":
    mirror_mod.use_x = False
    mirror_mod.use_y = False
    mirror_mod.use_z = True

#selection at the end
mirror_ob.select= 1
modifier_ob.select=1
bpy.context.scene.objects.unlink(modifier_ob)
modifier_ob.unlink()
```



Computer Coding is one of the fastest growing industries in the world today. The Computer Coding program is an introductory class providing students with programming foundations. Students will utilize a variety of computer languages including HTML, CSS, DNA and JavaScript. Course projects will include mobile web development, autonomous robotics, remote server workflow and data queries. There is an emphasis on developing for the web, as well as producing data-driven applications.

CAREER OPPORTUNITIES:
DATABASE ADMINISTRATOR
BACK-END DEVELOPER
GAME DEVELOPER

Program Length: Two years

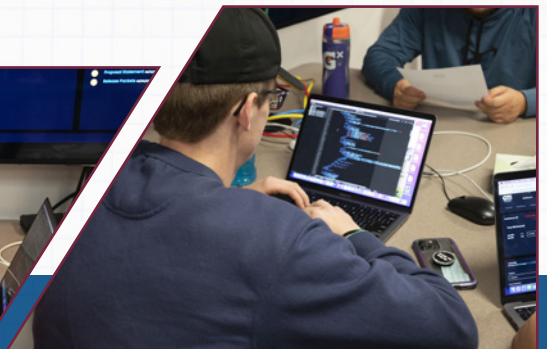
Industry Alignment: Information Technology
Career Cluster Programming and Software
Development Pathway

Integrated Academic Coursework: Career &
Financial Management (½ credit), ELA (½ credit
per year)

4+1 Pathway Option: Precision Exams - Web
Development II

College Credit Opportunities: Articulation
Agreements: New England Institute of Technology:
GDS110 Introduction to Game Programming,
BDS111 HTML & JavaScript or SE111 HTML &
JavaScript

Credential Opportunities: Precision Exams -
Web Development II; Technical Endorsement on
Graduation Diploma



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CONSTRUCTION TECHNOLOGY



Construction Technology provides students with classroom instruction and hands-on experiences in various specialties of the construction industry. Students will gain knowledge and apply it to the following areas: carpentry, electrical, masonry and plumbing. A strong emphasis is placed on safety, career and college readiness, career exploration and construction competencies.

CAREER OPPORTUNITIES:
CARPENTER
LABORER
ELECTRICIAN
MASON

Program Length: Two years

Industry Alignment: Architecture and Construction Career Cluster Construction Pathway; National Center for Construction Education and Research (NCCER); Occupational Safety and Health Administration (OSHA) Construction Industry

Integrated Academic Coursework: Career and Financial Management (½ credit); Math (½ credit per year)

4+1 Pathway Option: Proposed 2023-2024 update: Precision Exams - Carpentry

College Credit Opportunities: Articulation Agreements: SUNY College of Technology at Delhi

Credential Opportunities: Precision Exams – Construction Trades Foundations & Precision Exams – Carpentry 10-hour OSHA Construction Industry Credential; Technical Endorsement on Graduation Diploma

Industry Assessments: Proposed 2023-2024 update: Precision Exams – Construction Trades Foundations & Precision Exams – Carpentry

Program Supplies, Materials, Assessments Provided: Work boots; safety glasses; hard hats; high-visibility jacket; 10-hour OSHA training; Precision Exams - Carpentry



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The Cosmetology Salon at CiTi offers students the opportunity to gain practical experience and apply classroom theory as they work toward meeting the requirements to take the New York state licensing exam. Students will have the opportunity to participate in competitions, community service activities and internships in a salon. Students gain the knowledge to be able to use real-life experiences learned through the program in the Cosmetology classroom clinic. Students are expected to demonstrate the ability to work independently and with others, as well as have appropriate decision-making skills. The fast-paced environment of cosmetology can lead to several career opportunities.

CAREER OPPORTUNITIES:
SALON MANAGER • HAIRSTYLIST
NAIL CARE ARTIST • AESTHETICIAN
PLATFORM ARTIST • COLOR EDUCATOR
COLOR SPECIALIST

Program Length: Two years (students may be eligible to apply for a temporary New York state license after attainment of 1,000 hours)

Industry Alignment: New York State Cosmetology Division of Licensing Services Curriculum; New York State Education Department Cosmetology Prioritized Curriculum

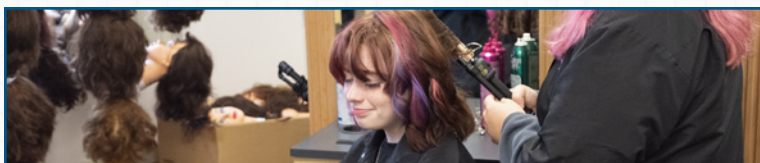
Integrated Academic Coursework: Career and Financial Management (½ credit); Science (½ credit per year); English (½ credit per year)

4+1 Pathway Option: NOCTI – Cosmetology NY

College Credit Opportunities: Articulation Agreement: Bryant & Stratton College

Credential Opportunities: Temporary Cosmetologist License (After the successful completion of 1,000 hours, which includes additional time commitment outside of regular class hours); Technical Endorsement on Graduation Diploma Program

Program Supplies, Materials, Assessments Provided: Stylist uniform; NOCTI Cosmetology Exam



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Working as a chef, cook or food-preparation worker involves the ability to work as an efficient team member. While applying classroom theory in an industrial kitchen, students will learn food preparation and cooking methods, food-handling techniques and sanitation procedures. This course provides students with a solid foundation for further career training programs and/or employment.

CAREER OPPORTUNITIES:
SOUS CHEF
FOOD CRITIC
BAKER ASSISTANT

Program Length: Two years

Industry Alignment: ProStart; ServSafe; New York State Restaurant Association Education Foundation; National Restaurant Association Education Foundation

Integrated Academic Coursework: Career and Financial Management (½ credit); Science (½ credit per year)

4+1 Pathway Option: National Restaurant Association Educational Foundation: ProStart Level 1 and 2, Qualters Practical Assessment

College Credit Opportunities: Dual Credit:

Cayuga Community College CULA 100 Food Safety and Sanitation; CULA 101 Culinary Methods and Techniques I; CULA 102 Culinary Methods and Techniques II; BIOL 209 Basic Nutrition; Articulation Agreements: SUNY Cobleskill; Schenectady County Community College; Bryant & Stratton College; SUNY Morrisville; Culinary Institute of America; SUNY Delhi; Tompkins Cortland Community College; Niagara Falls Culinary Institute; The Culinary Institute of New York at Monroe College; All ProStart articulation locations

Credential Opportunities: ProStart – Level 1 and 2; ProStart Certificate of Achievement; ServSafe Food Handler Certification; ServSafe Manager Certification; Technical Endorsement on Graduation Diploma; Technical Endorsement on Graduation Diploma

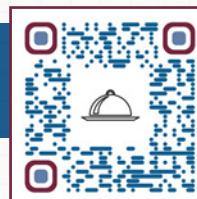
Industry Assessments: ProStart – Levels 1 and 2; Qualters Practical Exam

Program Supplies, Materials, Assessments

Provided: Chef hats; aprons; uniforms; shoes; ServSafe Certifications; ProStart Exam Levels 1 & 2; Qualters Food Handler Practical



Scan to find out more information!





DENTAL ASSISTING

This hands-on program provides an excellent opportunity for those with an interest in the dental profession to begin a rewarding career. Students receive training in a well-equipped dental classroom/lab. Coursework includes: healthcare foundations, sciences in dentistry, emergency care, infection control, preventive dentistry, clinical assisting and procedures, dental radiology, and internship experiences.

Additional Program Notes: Students in this program are required to have a current physical, and health immunizations. This program is located at our Fulton Adult-Education Campus.

CAREER OPPORTUNITIES:
DENTAL ASSISTANT
LABORATORY TECHNOLOGIST
DENTAL HYGIENIST

Program Length: Two years

Industry Alignment: NCHSE National Health Science Standards, NYS Dental Assisting

Integrated Academic Coursework: Not eligible until program is an approved NYSED CTE Program

4+1 Pathway Option: Not eligible until program is an approved NYSED CTE Program

College Credit Opportunities: Not available at this time

Credential Opportunities: American Heart Association - First Aid, CPR and AED (Adult, Child and Infant Certifications)

Industry Assessments: To be licensed as a registered dental assistant in New York state you must:

- be at least 18 years of age;
- meet education requirements; and
- meet examination requirements.

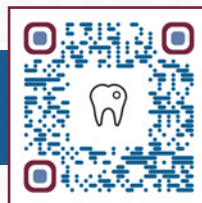
Passing scores on appropriate examinations administered by the Dental Assisting National Board (DANB), Inc. are required for licensure in New York. If you meet DANB's eligibility requirements, you must take and pass the current DANB CDA examination consisting of the following three components: Radiation Health and Safety (RHS), Infection Control (ICE), and General Chairside (GC).

Program Supplies, Materials, Assessments

Provided: Scrubs, shoes, American Heart Association - First Aid, CPR and AED (Adult, Child and Infant Certifications), and NYS licensing fee (if eligible).



Scan to find out more information!



DIGITAL MEDIA TECHNOLOGY



This program combines the creative elements of fine arts with digital technologies. Students use the latest industry hardware and software to complete projects in multimedia (including video production, audio editing and special effects), desktop publishing, digital illustration and photography. Digital Media Technology lays the foundation for exciting careers in web development, public relations, graphic design, animation, gaming and illustration.

CAREER OPPORTUNITIES:
GRAPHIC DESIGNER
ILLUSTRATOR • ANIMATOR
VIDEOGRAPHER
PHOTOGRAPHER

Program Length: Two years

Industry Alignment: Arts, A/V Technology and Communications Career Cluster Visual Arts Pathway

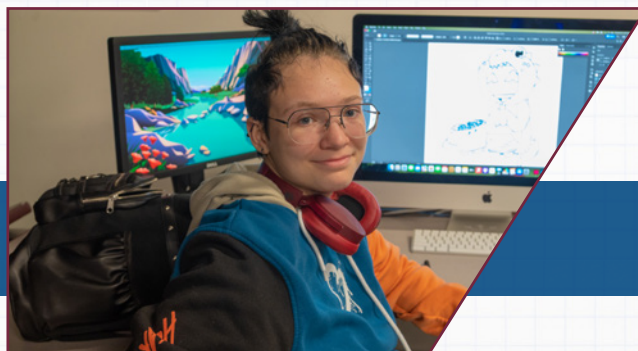
Integrated Academic Coursework: Career and Financial Management (½ credit); ELA (½ credit each year)

4+1 Pathway Option: Proposed 2023-2024 update: Precision Exams – Commercial Art

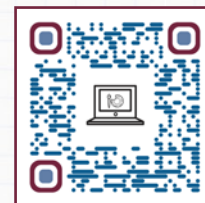
College Credit Opportunities: Dual Credit: Cayuga Community College: ART 252 Photoshop; ART 215 Computer Graphics/Illustrator; Articulation Agreements: Bryant & Stratton College, Mohawk Valley Community College

Credential Opportunities: Precision Exams – Commercial Art I; Technical Endorsement on Graduation Diploma

Program Supplies, Materials, Assessments Provided: Precision Exams – Commercial Art I



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EARLY CHILDHOOD EDUCATION



The Early Childhood Education program is designed to teach students the aspects of teaching and working with young children, from birth through elementary age. Students will explore career pathways and develop the characteristics of successful teachers and childcare providers through practicums. Applying theoretical concepts to real-life situations, students are able to take what they have learned in the classroom and apply it to their rotation experiences. The rotation experiences are vital in building the student's understanding of how to meet the developmental needs and interests of young children in elementary school and daycare settings.

CAREER OPPORTUNITIES:
ELEMENTARY TEACHER
DAYCARE PROVIDER
TEACHING ASSISTANT

Program Length: Two years

Industry Alignment: American Heart Association: First Aid, Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillator (AED) - Adult, Child and Infant Standards, ServSafe Certification, New York State Teaching Assistant Certificate, Level I

Integrated Academic Coursework: Career and Financial Management (1/2 credit); English (1/2 credit per year)

4+1 Pathway Option: NOCTI Early Childhood Care and Education – Advanced

College Credit Opportunities: Dual Credit: Cayuga Community College: BIO 209 Basic Nutrition (1st year students), CAY 101 Foundations for College Success (2nd year students) and Jefferson Community College: ECD 101 Introduction to Early Childhood Care and Development (2nd year students); Articulation Agreements: SUNY Cobleskill

Credential Opportunities: NYS Teaching Assistant Certificate – Level I; American Heart Association: First Aid, CPR and AED Certifications, ServSafe Certification; Technical Endorsement on Graduation Diploma

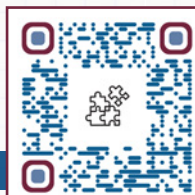
Industry Assessments: NYS Teaching Assistant Certificate; NOCTI – Early Childhood Care and Education Advanced Exam

Program Supplies, Materials, Assessments

Provided: Polo shirts 1st year, Sweatshirt 2nd year; NOCTI – Early Childhood Care and Education (Advanced Exam); American Heart Association – First Aid, CPR, AED Certifications; 3 workshops (Dignity for All Students Act, Child Abuse Prevention Workshop, and School Violence Prevention Workshop); Exam fee for ATAS (Assessment of Teaching Assistant Skills) needed to earn the NYS Teaching Assistant Certificate (must be eligible to test after completing two years of instruction and completed all workshops); Fingerprint Clearance for Teaching Assistant Certificate (as long as student takes and passes ATAS exam before graduation).



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HEAVY EQUIPMENT



Students in the Heavy Equipment program will learn how to service, repair and operate various types of excavation equipment.

Program Length: Two years

Industry Alignment: Associated Equipment Distributors (AED) - Standards for Equipment Technology; Occupational Safety and Health Administration (OSHA)

Integrated Academic Coursework: Career and Financial Management (½ credit); Science (½ credit per year)

4+1 Pathway Option: AED written exam & Precision Exams Practical (part 2)- Agricultural Machinery Technology

College Credit Opportunities: Articulation Agreements: Lincoln Technical Institute; Ohio Technical College; SUNY Cobleskill

Credential Opportunities: 10-hour OSHA General Industry Safety and Health credential; Technical Endorsement on Graduation Diploma

Industry Assessments: AED written exam & Precision Exams Practical (part 2)- Agricultural Machinery Technology

CAREER OPPORTUNITIES:
HEAVY DUTY TRUCK TECHNICIAN
HEAVY EQUIPMENT TECHNICIAN
EQUIPMENT OPERATOR

Program Supplies, Materials, Assessments

Provided: safety glasses, gloves, high-visibility jacket, hard hat, work boots, work gloves; 10-hour OSHA credential; Precision Exams-Agricultural Machinery Technology



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INDUSTRIAL ELECTRICAL TECHNOLOGIES



This program provides introductory level exposure to fundamental knowledge and skills associated with the industrial electrical trades. Classroom instruction in electrical theory and fundamentals, as well as shop experiences will expose students to real-life requirements and expectations of the trade. Students will learn fundamentals of hand tools, power tools and test equipment used in an environment where safety, teamwork and accountability are stressed. Labs will provide hands-on experiences and demonstrations applicable to industrial electrical work settings. Industry partners will provide students with project-based learning, facility tours, job shadowing and career development.

CAREER OPPORTUNITIES:
ELECTRICIAN
LINEMAN
TRANSMISSION TECHNICIAN

Program Length: Two years

Integrated Academic Coursework: Math (½ credit per year); Career & Financial Management (½ credit)

4+1 Pathway Option: NCCER Core Introductory Craft Skills

College Credit Opportunities: Articulation Agreements: SUNY College of Technology at Delhi; Lincoln Technical Institute

Credential Opportunities: 10- Hour OSHA General Industry Safety and Health Credential; NCCER Core Certification, Fluke Multimeter Course; Technical Endorsement on Graduation Diploma

Industry Assessments: NCCER Academic Core

Program Supplies, Materials, Assessments

Provided: Work boots, safety glasses, 10-Hour OSHA Credential, NCCER Academic Core



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NEW VISION ALLIED HEALTH



CAREER OPPORTUNITIES:
NURSE
DOCTOR
FAMILY HEALTH EDUCATION

The New Vision Allied Health program is designed for high school seniors interested in pursuing a career in healthcare. Students will participate in classroom instruction and career-related experiences observed during clinical rotations in settings such as local health sites, health centers and private practices ranging from primary care to dental care. The classroom setting is held on the SUNY Oswego campus, giving students a first-hand experience as college students.

Additional Program Notes: The admission process requires an application, recommendations, a writing sample and an interview. This program is housed on the SUNY Oswego campus.

Candidate Criteria:

- Be in grade 12 planning to graduate the same year enrolled in New Vision program;
- Have achieved an attendance rate of 90 percent or better;
- Possess an 85 percent (3.0) or better overall average;
- Be willing to adhere to school and work site codes of conduct
- Have a focused career interest
- Students may be required to submit medical history forms prior to being placed in rotation sites

Program Length: One year (seniors only)

Industry Alignment: NCHSE National Health Science Standards

Integrated Academic Coursework:

Participation in Government (½ credit); Economics (½ credit); Health (½ credit); English 12 (1 credit)

4+1 Pathway Option: No pathway available

College Credit Opportunities: SUNY Oswego English 102; English 150; Psychology 100; GST 101 Career Awareness

Credential Opportunities: American Heart Association - First Aid; Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillator (AED) - Adult, Child and Infant Standards

Industry Assessments: American Heart Association – First Aid, CPR and AED Certifications;

Program Supplies, Materials, Assessments

Provided: Scrubs, CPR/AED certification, Clinical Background Clearance Fee



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more information!**



NEW VISION SPECIALIZED CAREERS

The New Vision Specialized Careers program is designed for high school seniors who have a strong interest in pursuing a specific career. Students will participate in classroom instruction, along with real-life career related experiences observed during rotations that are specifically tailored to their career interests (e.g. event planning, business administration, vet tech, etc.) These rotation sites will give students an overview of typical occupational experiences. The classroom setting is held on the SUNY Oswego campus, giving students a firsthand experience as college students. Admission to this program is granted through an application and interview process.

Additional Program Notes: The admission process requires an application, recommendations, a writing sample and an interview. This program is housed on the SUNY Oswego campus.

CAREER OPPORTUNITIES:
ENGINEER
VETERINARIAN
PSYCHOLOGIST

Candidate Criteria:

- Be in grade 12 planning to graduate the same year enrolled in New Vision program;
- Have achieved an attendance rate of 90 percent or better;
- Possess an 85 percent (3.0) or better overall average;
- Be willing to adhere to school and work site codes of conduct
- Have a focused career interest
- Students may be required to submit medical history forms prior to being placed in rotation sites

Program Length: One year (seniors only)

Industry Alignment: Learning Standards for Career Development and Occupational Studies

Integrated Academic Coursework:

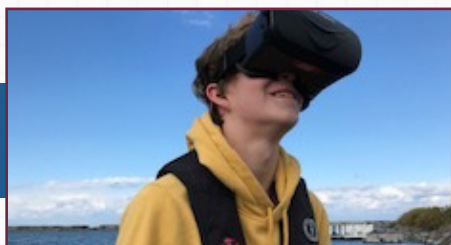
Participation in Government (½ credit); Economics (½ credit); English 12 (1 credit)

4+1 Pathway Option: No pathway available

College Credit Opportunities: SUNY Oswego English 102; English 150; Psychology 100; GST 101 Career Awareness

Credential Opportunities: American Heart Association - First Aid, CPR and AED Adult Certifications

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NURSING ASSISTANT



The Nursing Assistant program offers an introduction into the healthcare field with an emphasis on entry level employment as a nursing assistant and/or advanced careers through continued education. In this program, students will be provided instruction through classroom theory, lab and clinical skills in preparation for the New York State Nurse Aide Certification exam. Nursing assistant skills will be demonstrated and practiced on mannequins and peers in the nursing lab and at clinical rotations.

Additional Program Notes: Students in this program are required to have a current physical, and health immunizations. Students will participate in supervised clinical rotations at local healthcare facilities by providing hands-on care to residents/patients.

CAREER OPPORTUNITIES:
NURSING ASSISTANT
THERAPY AIDE
HEALTHCARE ADVOCATE

Program Length: Two years (may be eligible for NYS CNA certification after second year)

Industry Alignment: NYS Department of Health Nurse Assistant/Aide; NYS Education Department Health Core Curriculum; American Heart Association - First Aid, CPR, and AED - Adult, Child and Infant Standards

Integrated Academic Coursework: Career and Financial Management (½ credit); Science (½ credit per year); Health (½ credit); English (½ credit per year)

4+1 Pathway Option: Prometric - New York State Nurse Aide Competency Exam

College Credit Opportunities: DUAL CREDIT: Cayuga Community College: BIO 209: Introduction to Nutrition
FIRST-YEAR: CHEM 101 Introduction to Chemistry
SECOND-YEAR: Articulation Agreements: Bryant & Stratton College

Credential Opportunities: New York State Department of Health - Nurse Aide Certification; American Heart Association - First Aid, CPR and

AED (Adult, Child and Infant Certifications); Technical Endorsement on Graduation Diploma

Industry Assessments: New York State Nurse Aide Competency Exam

Program Supplies, Materials, Assessments Provided: Scrubs; Shoes; American Heart Association - First Aid, CPR, AED (Adult, Child and Infant Certifications); New York State Nurse Aide Competency Exam (if eligible)



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PUBLIC SAFETY & JUSTICE

Students enrolled in the Public Safety and Justice program will have the opportunity to explore law enforcement, security, corrections, emergency management and response, and firefighting careers. Many hands-on learning experiences will provide students the opportunity to learn about evidence gathering, fingerprinting, fire control, emergency response techniques and much more.

CAREER OPPORTUNITIES:
FIREFIGHTER
STATE TROOPER
PARAMEDIC

Program Length: Two years

Industry Alignment: Law, Public Safety, Corrections & Security Career Cluster: Law Enforcement Services Pathway; New York State Division of Criminal Justice Services – Security Guard Training; New York State Office of Homeland Security – Training Guidelines; Department of State – New York State Security Guard Curriculum; New York State Department of Health – Emergency Medical Technician Curriculum; American Red Cross - First Aid, Cardiopulmonary Resuscitation and Automated External Defibrillator (Adult, Child and Infant Standards); New York State Academy of Fire Science Recruit Firefighter Training Program

Integrated Academic Coursework: Career and Financial Management (½ credit); Physical Education (½ credit per year); Science (½ credit per year); English (½ credit per year)

4+1 Pathway Option: Precision Exams - Criminal Justice I

College Credit Opportunities: Bryant & Stratton College; SUNY College of Technology at Delhi; Jefferson Community College

Credential Opportunities: American Heart Association - First Aid, CPR and AED (Adult, Child and Infant Certifications); NYS Division of Criminal Justice Services – Security Guard Certification; Technical Endorsement on Graduation Diploma)

Program Supplies, Materials, Assessments

Provided: Dress Uniform (shirt, pants, belt), shoes, PT t-shirt, Precision Exams – Criminal Justice I Exam



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WELDING TECHNOLOGY



The Welding Technology program is a two-year program designed to help students gain basic welding, fabricating, math and problem-solving skills needed to qualify for entry-level employment or apprenticeship. Students work to complete the American Welding Society (AWS) Sense - Entry Level I Welder Qualification. Students will build a portfolio of projects and weld tests that will prepare them for success in a variety of employment settings.

Program Length: Two years (may be eligible for AWS certification after second year)

Industry Alignment: American Welding Society (AWS) Sense; Occupational Safety & Health Administration (OSHA)

Integrated Academic Coursework: Career and Financial Management (½ credit), Math (½ credit per year), Science (½ credit per year)

4+1 Pathway Option: AWS – Sense Level 1 (Entry Welder)

College Credit Opportunities: Articulation Agreements: Lincoln Technical Institute; Ohio Technical College; SUNY College of Technology at Delhi

Credential Opportunities: AWS – Sense Level 1 certification; 10-hour OSHA Construction Industry Safety and Health Credential; Technical Endorsement on Graduation Diploma

CAREER OPPORTUNITIES:
REPAIR WELDER • WELDER TECHNICIAN
WELDER/ FITTER • METAL FABRICATOR
ARC WELDER • SHEET METAL WORKER
WELDING INSPECTOR

Industry Assessments: AWS – Sense Level 1 (Entry Welder)

Program Supplies, Materials, Assessments

Provided: Work boots, safety glasses, work gloves, welding jacket; 10-hour OSHA training certificate; AWS – Sense Level 1 certification



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NOTES

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at the Center for Instruction, Technology & Innovation

**179 COUNTY ROUTE 64
MEXICO, NY 13114**

315.963.4251 • WWW.CITIBOCES.ORG/CTE