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Letter from the Principal

Welcome to CTE at the Center for Instruction, Technology and Innovation. We have many programs that we are sure you will find to be exciting. Our programs offer you many opportunities to explore and develop a number of skills that may lead you to a career choice.

We have worked hard to connect with business and industry leaders so they can give us input on our programs and how we can best prepare you for the world of work. Because of those connections, you will be able to have real-world experiences like cutting clients’ hair, working on your car, working in a day care center, etc. Each program brings real-world work experiences to you so you can learn about specific career skills and then practice them in authentic settings. You may also have the opportunity to serve an internship at a local business. For example, a Culinary Arts student may intern at a local bakery while a Public Safety student may go on ride-alongs with Oswego County deputies. The many hands-on opportunities are what make our programs special.

We will also work with you to build your employability skills, which are essential to help you get -- and keep -- a job in your area of interest. While at CiTi, you will work on communication, problem solving and collaboration skills. Because every job in every career requires reading, writing and math abilities, your teacher will be incorporating these skills into your classroom and workshop activities.

Our goal here in Career and Technical Education is to help prepare you for your future. Our diverse courses and knowledgeable teachers help create a solid foundation for your future.

Marla Berlin
Career and Technical Education Principal

CiTi BOCES Board of Education

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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 Mr. Mark LaFountain.
Definition of Terms

Program Length: The course descriptions indicate whether a program is designed for one or two years. If a program is labeled as a “1 or 2 year” program, that means that 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 program for 2 years. Students may choose to participate in a 2 year program for only 1 year. For example, a senior has the option of enrolling in a 2 year program for 1 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 Outdoor Power Equipment 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. This instruction takes place within the CTE program instruction on a regular basis.

Articulation Agreements: An articulation agreement is an approved agreement between CiTi and a community college, university or trade union that allows the student to apply knowledge already mastered toward specific courses. For example, a student who successfully completes Advanced Metal Manufacturing will receive 3 credits at Cayuga Community College for MMT101.

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 of specified skills/knowledge in Outdoor Power Equipment Technology may receive the Briggs and Stratton Master Service Technician credential; 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 National Automotive Technicians 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 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
National Technical Honor Society (NTHS)
SkillsUSA
Future Farmers of America (FFA)
Advanced Metal Manufacturing

Program Description: 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 the projects. (This program was formerly known as Motorsports Fabrication.)

Program Length: 1 or 2 years

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

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

Articulation Agreements: Lincoln Technical Institute; Cayuga Community College: MMT 101 Machine Tools I

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

Industry Assessments: NIMS - Machining Level 1 Certification

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

Teacher(s): Hawksby, Joseph
Advanced Metal Manufacturing

Metal Fabricator • CAD Engineer • Welder
**Auto Body Repair**

**Program Description:** 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 and replace parts. Students will practice procedures that will develop perceptual capabilities and skills to produce high quality auto body repairs.

**Program Length:** 1 or 2 years

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

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

**Articulation Agreements:** Lincoln Technical Institute; Ohio Technical College

**Credential Opportunities for Students:** ASE – Time Toward ASE Accreditation and Test Preparation; NATEF; 10-hour OSHA General Industry Safety and Health Credential; Technical Endorsement on Graduation Diploma

**Industry Assessments:** National Occupational Competency Testing Institute - Collision Repair/Refinishing Technician

**Program Supplies, Materials, Assessments Provided:** Work boots; safety glasses; Respiratory physical; NOCTI – Collision Repair/Refinishing Technician Exam; 10-hour OSHA training certificate

**Teacher(s):** Rainville, Richard
Auto Body Repair

Auto Body Technician • Painter • Parts Manager
Auto Technology (I and II)

Program Description: Through the Auto Technology program, students learn the various aspects of vehicle diagnosis, repair and maintenance. The units of study include eight required NATEF 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.

Program Length: Auto Tech I is offered in the AM session only (1 year); Auto Tech II is offered in the PM session only (1 year)

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

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

Articulation Agreements: Morrisville State College; University of Northwestern Ohio; Lincoln Technical Institute

Credential Opportunities: ASE/NATEF - 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 Assessments: National Occupational Competency Testing Institute – Automotive Core; NATEF – maintenance and light repair

Program Supplies, Materials, Assessments Provided: Work boots; safety glasses; 10-hour OSHA certificate; NOCTI – Automotive Core Exam; NATEF - Brakes, Steering and Suspension, Electrical/Electronics, Engine Performance, MLR (Maintenance and Light Repair, Engine Repair, Automatic Transmissions/Transaxles, Manual Drive Train and Axles, Heating and Air Conditioning and Automobile Service Technology.

Teacher(s): Perkins, Dave
Auto Technology

Mechanic • Auto Parts Salesperson • Insurance Adjuster
Computer Systems & Networking - A+

**Program Description:** The A+ Computer Repair course prepares students to take the CompTia A+ certification exam and addresses computer repair and maintenance, hardware/software upgrades, operating system configurations and basic networking.

**Program Length:** 1 year (offered in PM session only)

**Industry Alignment:** CompTia A+ Computer Repair Industry Standards

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

**Articulation Agreements:** ITT Technical Institute; Excelsior College; Bryant & Stratton College; Cayuga Community College

**Credential Opportunities:** CompTia A+ Computer Repair Certification; Technical Endorsement on Graduation Diploma

**Industry Assessments:** CompTia A+ Computer Repair Assessment

**Teacher(s):** Martel, Donald
Computer Systems & Networking - A+

Repair Technician • Installation Analyst • Network Manager
## Computer Systems & Networking - Cisco

**Program Description:** The Cisco program will introduce students to skills and knowledge needed for careers in computer networking. Projects include networking installation and configuration, troubleshooting procedures, local area networking, wide area networking and security issues. The coursework will prepare students for employment as entry-level networking technicians.

**Program Length:** 1 year (offered in AM session only)

**Industry Alignment:** Cisco Industry Networking Standards; Electronic Industries Alliance (EIA); Telecommunications Industry Association (TIA)

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

**Articulation Agreements:** Excelsior College; Bryant & Stratton College; Jefferson Community College; Cayuga Community College

**Credential Opportunities:** Cisco Certified Entry Networking Technician (CCENT); Cisco Certified Network Administrator (CCNA); Technical Endorsement on Graduation Diploma

**Industry Assessments:** CCENT Assessment; CCNA Assessment

**Teacher(s):** Martel, Donald
Computer Systems & Networking - Cisco

Cyber Security Engineer • Network Administrator • System Analyst
Construction Technology

**Program Description:** Construction Technology provides students with classroom instruction and hands-on experiences in various aspects 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.

**Program Length:** 1 or 2 years (may be eligible for certification after second year)

**Industry Alignments:** National Center for Construction Education and Research (NCCER); Occupational Safety and Health Administration (OSHA) Construction Industry Safety and Health

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

**Articulation Agreements:** International Brotherhood of Ironworkers Local 60; Morrisville State College

**Credential Opportunities:** NCCER Core Certification; 10-hour OSHA Construction Industry Safety and Health Credential; Technical Endorsement on Graduation Diploma

**Industry Assessment:** NCCER National Construction Career Test – Academic Core

**Program Supplies, Materials, Assessments Provided:** Work boots; safety glasses; 10-hour OSHA training; National Center for Construction Education and Research Core Credential, Craft Skills Exam

**Teacher(s):** Mahon, Craig
Construction Technology

Carpenter • Laborer • Electrician
Cosmetology

Program Description: The Shear Class Beauty 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 shows, competitions and seminars. 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 a number of career opportunities.

Program Length: 1 or 2 years (may be eligible to apply for a temporary N.Y. State License after second year)

Industry Alignments: New York State Cosmetology Division of Licensing Services Curriculum; New York State Education Department Cosmetology Curriculum Requirements

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

Articulation Agreements: Bryant & Stratton College

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

Industry Assessment: National Occupational Competency Testing Institute – Cosmetology

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

Teacher(s): Hartman, Rose; Rovito, Ines; Fisher, Karen
Cosmetology

Salon Manager • Hairstylist • Nail Care Artist
CTE Business

Program Description: CTE Business is a project-based business program that develops students’ understanding and skills in such areas as business, law, economics, financial analysis, human resources management, information management, marketing and operations. Students will participate in real-world projects while developing technology, communication, collaboration and critical thinking skills. These projects in business management and entrepreneurship will prepare students for entry-level positions or will provide a foundation for further education.

Program Length: 1 year (for 11th or 12th graders); suggested as a prerequisite for the New Vision Business program

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

Articulation Agreements: Pending

Credential Opportunities: Microsoft Office User Specialist

Industry Assessment: Microsoft Office Suite
CTE Business

Business Owner • Accountant • Marketing Manager
Culinary Arts

Program Description: 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-related training programs.

Program Length: 1 or 2 years

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

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

Articulation Agreements: SUNY Cobleskill; Schenectady County Community College; Niagara County Community College; Excelsior College; Bryant & Stratton College; Morrisville State College; Culinary Institute of America *All ProStart articulations

Credential Opportunities: ProStart – Level 1 and 2/ProStart – Certificate of Achievement; ServSafe; Technical Endorsement on Graduation Diploma

Industry Assessments: National Occupational Competency Testing Institute – Culinary Arts Prep Cook (Level 1), ProStart – Foundations of Restaurant Management and Culinary Arts; Qualters Practical Exam

Program Supplies, Materials, Assessments Provided: Chef hats; aprons; uniforms; shoes; ServSafe; ProStart; NOCTI – Prep Cook Level 1; Qualters Food Handler (Year 1) and Management (Year 2)

Teacher(s): Jerrett, Sue; Passer, Samuel
Culinary Arts

Sous Chef • Food Critic • Baker Assistant
Digital Media Technology

Program Description: 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), computer programming, desktop publishing and digital photography. Digital Media Technology lays the foundation for exciting careers in web development, public relations, graphic design, animation, gaming and programming.

Program Length: 1 year; second year students may be admitted with teacher discretion (OPET)

Industry Alignments: National Educational Technology Standards; International Society for Technology in Education Standards; Internet and Computing Core Standards

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

Articulation Agreements: Bryant & Stratton College; Utica School of Commerce; Cayuga Community College: Art 252 Photoshop


Industry Assessment: National Occupational Competency Testing Institute - Advertising and Design

Program Supplies, Materials, Assessments Provided: Adobe Exam; Microsoft Exam

Teacher(s): Miller, Jon
Digital Media Technology

Graphic Designer • Animator • Videographer
Early Childhood Education

Program Description: 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 where they learn how to meet the developmental needs and interests of young children in elementary school and daycare settings.

Program Length: 1 or 2 years (may be eligible for certification after second year)

Industry Alignments: Council for Professional Recognition – Child Development Associate Competency Standards; American Red Cross - First Aid, Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillator (AED) - Adult, Child and Infant Standards

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

Articulation Agreements: Herkimer County Community College; Jefferson Community College; SUNY Cobleskill; Excelsior College

Credential Opportunities: Child Development Associate; American Red Cross - First Aid, CPR and AED Adult Certifications; Technical Endorsement on Graduation Diploma

Industry Assessment: National Occupational Competency Testing Institute - Early Childhood Care and Education (Basic and Advanced)

Program Supplies, Materials, Assessments Provided: Polo shirts; NOCTI – Early Childhood Care and Education (Basic and Advanced Exam); American Red Cross – First Aid, CPR, AED (Adult, Child and Infant Certifications); Child Development Associate (CDA) exam (after completing 2 years of instruction; minimum hours of instruction and hours working with children)

Teacher(s): Nabinger, Melissa
Early Childhood Education

Elementary Teacher • Daycare Provider • Teacher’s Aid
Heavy Equipment Repair & Operation

Program Description: Students in the Heavy Equipment Repair and Operation (HERO) program will learn how to service, repair and operate various types of heavy-duty trucks and excavation equipment. Students practice operating machinery on simulators before testing their skills on equipment. Classroom instruction also provides training for a Commercial Driver’s License, Class B (CDL-B) so that any student who has a driver’s license and is 18 years old or older may obtain his/her CDL-B.

Program Length: 1 or 2 years

Industry Alignments: National Center for Construction Education & Research (NCCER); Occupational Safety and Health Administration (OSHA); New York DMV Commercial Drivers License B Certification

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

Articulation Agreements: Lincoln Technical College

Credential Opportunities for Students: NCCER Core Certification – Core +Level 1 – Heavy Equipment Operations; Test Preparation for Commercial Driver's License, Class B (CDL-B); 10-hour OSHA certification credential; Technical Endorsement on Graduation Diploma

Industry Assessment: NCCER – National Construction Career Test - Academic Core Level 1 – Heavy Equipment Operations; NCCER - Core Curriculum

Program Supplies, Materials, Assessments Provided: Jacket; hard hat/liner; safety glasses; work boots; 10-hour OSHA training certificate; CDL physical and drug test; physical; National Construction Career Test Level 1 Exam, National Construction Career Core Curriculum Exam

Teacher(s): DeSantis, John; Whalen, Sue; Daubek, Shane
Heavy Equipment Repair & Operation

Excavator Operator • Heavy Equipment Mechanic • Construction Manager
**New Vision Allied Health**

**Program Description:** 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 Oswego Hospital and other Oswego Health sites, NOCHSI Health Centers in Oswego and Fulton and private practices ranging from primary care to dental care. The classroom setting is held on the SUNY Oswego campus, giving students their first experience as college students.

**Program Length:** 1 year (seniors only)

**Industry Alignment:** American Red Cross - First Aid, Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillator (AED) - Adult, Child and Infant Standards

**Integrated Academic Coursework:**
- Participation in Government (1/2 credit per year)
- Economics (1/2 credit per year)
- Health (1/2 credit per year)
- English 12 (1 credit per year)

**Articulation Agreements:** SUNY Oswego (English 150: Principles of Literary Representation, English 102: Composition II, PSY 100: Principles of Human Behavior, HSC 243: Standard First Aid and CPR); Bryant and Stratton College

**Credential Opportunities:** American Red Cross - First Aid, CPR and AED Adult Certifications

**Program Supplies, Materials, Assessments Provided:** Lab coat; American Red Cross – First Aid, CPR and AED Certifications

**Additional Program Notes:** The admission process requires an application, recommendations, an on-demand writing sample and an interview.

**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 interest and plan to pursue a career in health care; and
- Students must submit medical history forms prior to being placed in rotation sites.

**Teacher(s):** Wright, Kimberly; Knowles, Linda (English)
New Vision Allied Health

Nurse • Doctor • Family Health Education
New Vision Business

Program Description: The New Vision Business program is designed for high school seniors interested in pursuing different careers in the business field. Students will participate in classroom instruction and career-related experiences observed during rotations in local businesses. These rotation sites will give students an overview of typical occupational experiences. The classroom setting is held on the SUNY Oswego campus, giving students their first experience as college students. Admission to this program is granted through an application and interview process.

Program Length: 1 year (seniors only)

Industry Alignment: American Red Cross - First Aid, Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillator (AED) - Adult, Child and Infant Standards

Integrated Academic Coursework:
• Participation in Government (1/2 credit per year)
• Economics (1/2 credit per year)
• English 12 (1 credit per year)

*Note: SUNY Oswego Introduction to Business course may be available for the fall 2016 semester.

Credential Opportunities: American Red Cross - First Aid, CPR and AED Adult Certifications

Additional Program Notes: The admission process requires an application, recommendations, an on-demand writing sample and an interview.

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; and
• Have a focused interest and plan to pursue a career in a business occupation.

Teacher(s): Nesbitt, Dianna; Knowles, Linda (English)
New Vision Business

International Business Executive
• Human Resources Manager • Corporate Lawyer
New Vision Law & Government

**Program Description:** The New Vision Law & Government program is designed for high school seniors interested in pursuing a career in law, public safety or government. Students will participate in classroom instruction and career-related experiences observed during rotations in settings such as the Oswego County Probation Department, Fulton Police Department and E-911. The classroom setting is held on the SUNY Oswego campus, giving students their first experience as college students. Admission to this program is granted through an application and interview process.

**Program Length:** 1 year (seniors only)

**Industry Alignment:** American Red Cross - First Aid, Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillator (AED) - Adult, Child and Infant Standards

**Integrated Academic Coursework:**
- Participation in Government (1/2 credit per year)
- English 12 (1 credit per year)
- Economics (1/2 credit per year)

**Articulation Agreements:** SUNY Oswego (English 150: Principals of Literary Representation, English 102: Composition II, PSY 100: Principles of Human Behavior, HSC 243: Standard First Aid and CPR); Bryant & Stratton College

**Credential Opportunities:** American Red Cross - First Aid, CPR and AED Adult Certifications

**Additional Program Notes:** The admission process requires an application, recommendations, an on-demand writing sample and an interview.

**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 interest and plan to pursue a career in the law and government fields; and
- Students must submit medical history forms prior to being placed in rotation sites.

**Teacher(s):** Nesbitt, Dianna; Knowles, Linda (English)
New Vision
Law & Government

Lawyer • Police Officer • Court Clerk
Program Description: The New Vision Specialized Careers program is designed for high school seniors who have a strong interest in pursuing a career that does not fall under our other New Vision programs. Students will participate in classroom instruction, along with real-life career related experiences observed during rotations that are specifically tailored to their career interests. For example, an engineering student may go to C&S Engineering for a rotation, while a veterinary student may go to North Country Veterinary Services. These rotation sites will give students an overview of typical occupational experiences. The classroom setting is held on the SUNY Oswego campus, giving students their first experience as college students. Admission to this program is granted through an application and interview process.

Program Length: 1 year (seniors only)

Industry Alignment: American Red Cross - First Aid, Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillator (AED) - Adult, Child and Infant Standards

Integrated Academic Coursework:
- Participation in Government (1/2 credit per year)
- Economics (1/2 credit per year)
- English 12 (1 credit per year)

Articulation Agreements: SUNY Oswego (English 150: Principles of Literary Representation, English 102: Composition II, PSY 100: Principles of Human Behavior, HSC 243: Standard First Aid and CPR); Onondaga Community College – CAD (if appropriate to career interest)

Credential Opportunities: American Red Cross - First Aid, CPR and AED Adult Certifications

Additional Program Notes: The admission process requires an application, recommendations, an on-demand writing sample and an interview. Students may be required to submit medical history forms prior to being placed in rotation sites.

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; and
- Have a focused career interest

Teacher(s): Nesbitt, Dianna; Knowles, Linda (English)
New Vision
Specialized Careers

Engineer • Veterinarian • Psychologist
Nursing Assistant

Program Description: Nursing Assistants perform a variety of tasks including patient observation and helping patients to eat, dress and bathe. Individuals considering this profession should possess good communication skills. This course will provide students with the classroom theory and lab skills to obtain the NYS Nurse Aide Certification. Supervised clinical experiences at area long-term care facilities help students gain first-hand knowledge about this profession. (This course serves as an excellent stepping stone into other health-related training programs.) Second year students will gain experience in acute-care settings at the hospital in such departments as emergency medical-surgical and the intense care unit. 108 supervised clinical hours will be obtained over the course of 2 years.

Program Length: 1 or 2 years

Industry Alignments: New York State Certified Nurse Aide; New York State Education Health Core Curriculum; American Red Cross - First Aid, Cardiopulmonary Resuscitation (CPR), and Automated External Defibrillator (AED) - Adult, Child and Infant Standards

Integrated Academic Coursework:
- Career and Financial Management (1/2 credit per year)
- Science (1 credit per year)
- Chemistry 101 (1 credit per year) (seniors)
- Health (1/2 credit per year)
- English (1/2 credit per year)

Articulation Agreements: Onondaga Community College; Excelsior College; Bryant & Stratton College; Cayuga Community College - Chemistry

Credential Opportunities: New York State Department of Health - Residential Health Care Facility Nurse Aide Certification; American Red Cross - First Aid, CPR and AED (Adult, Child and Infant Certifications); Technical Endorsement on Graduation Diploma

Industry Assessments: National Occupational Competency Testing Institute (NOCTI) – Nursing Assistant; New York State Nurse Aide Competency Exam

Program Supplies, Materials, Assessments Provided: Uniforms; Shoes; American Red Cross – First Aid, CPR, AED (Adult, Child and Infant Certifications); New York State Department of Health – Residential Health Care Facility Nurse Aide Certification; NOCTI – Nursing Assistant Exam

Teacher(s): Giverson, Lori; Totman, Kelly
Nursing Assistant • Group Home Therapy Aid • Healthcare Advocate
Outdoor Power Equipment Technology

Program Description: Do you enjoy working on small engine machines as much as using them? If so, this program is for you! From snowmobiles and lawn mowers to chain saws and generators, outdoor power equipment teaches students how to repair and maintain equipment as well as how to use it. Logging operations and sawmill use are also taught, specifically to students who return for a second year.

Program Length: 1 year (second-year students may be admitted to the program with teacher discretion)

Industry Alignments: Engine Service Association Inc. – Outdoor Power Equipment Technician; Occupational Safety and Health Administration (OSHA)

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

Articulation Agreements: Ohio Technical College PowerSport Institute; Excelsior College; Lincoln Technical Institute

Credential Opportunities: Engine Service Association – Outdoor Power Equipment Certified Technician (2-stroke, 4-stroke engines); Briggs and Stratton Master Service Technician; 10-hour OSHA General Industry Safety and Health Credential; Technical Endorsement on Graduation Diploma

Industry Assessment: National Occupational Competency Testing Institute – Small Engine Technology

Program Supplies, Materials, Assessments Provided: Safety glasses, work boots; NOCTI – Small Engine Technology Exam, 10-hour OSHA training certificate

Teacher(s): Shaver, Dan
Outdoor Power Equipment Technology

Generator Service Technician • Parts Manager • Logger
Program Description: Students enrolled in the Public Safety & Justice program will have the opportunity to explore law enforcement, security, corrections, emergency management and response and fire fighting careers. Many hands-on learning experiences will provide students opportunities to learn about evidence gathering, fingerprinting, fire control, emergency response techniques and much more. Students will learn about public safety, emergency response and fire fighting career options.

Program Length: 1 or 2 years


Integrated Academic Coursework:
• Career and Financial Management (1/2 credit per year)
• Physical Education (1/2 credit per year)
• Science (1/2 credit per year)
• English (1/2 credit per year)

Articulation Agreements: Jefferson Community College; Excelsior College; Bryant & Stratton College

Credential Opportunities: New York State Security Guard Certification; Basic Traffic Control Training; American Red Cross - First Aid, CPR and AED (Adult, Child and Infant Certifications); FEMA/Office of Homeland Security – Incident Command Systems, Weapons of Mass Destruction, Incident Command Radio Telecommunications Training; American Firefighters Trainers Association 1001 Training; OSHA Personal Protective Equipment, Blood-Borne Pathogens Training Certifications; Wilderness Search and Rescue Training; ASP Baton and Handcuff Certification; Technical Endorsement on Graduation Diploma; First Responder Training

Industry Assessments: National Occupational Competency Testing Institute – Protective Services

Program Supplies, Materials, Assessments Provided: Dress Uniform (shirt, trousers, belt, jacket, dress shoes)

Teacher(s): Garcia, James; Bender, Mark; Gabriel, Charles
Public Safety & Justice

Firefighter • State Trooper • Paramedic
STEM Academy

**Program Description:** Students in the STEM Academy will participate in innovative problem solving through the integration of science, technology, engineering and math knowledge. Students will develop skills in research and analysis, technical reading and writing, engineering graphics and problem solving through project-based learning. The use of AutoCAD and 3D printing will be used to guide learning through the product design process. Students will work in robotics to engage computer programming skills. Topics such as green energies, robotics, sustainable engineering and advanced computer programming will be explored.

**Program Length:** 1-year program (for 11th or 12th graders)

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

**Articulation Agreements:** Pending
STEM Academy

Robotics Engineer • Computer Programmer • Design Operator
Welding Technology

Program Description: Welding is to metal fabrication as glue and nails are to carpentry. Welds hold much of our world together – from buildings, bridges and heavy equipment to airplanes and machinery. A good weld is as strong or stronger than the base metal. Making a good weld takes a high level of skill. The Welding Technology program is a two-year program designed to help students gain the 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 Entry Level 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: 1 or 2 years (may be eligible for certification after second year)

Program Industry Alignments: American Welding Society (AWS); Occupational Safety & Health Administration (OSHA)

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

Articulation Agreements: International Brotherhood of Ironworkers Local 60; Lincoln Technical Institute; International Brotherhood of Pipefitters Local 73

Credential Opportunities: AWS – Entry Level Welder Qualification; 10-hour OSHA Construction Industry Safety and Health Credential; Technical Endorsement on Graduation Diploma

Industry Assessments: AWS – Level 1 (Entry Welder)

Program Supplies, Materials, Assessments Provided: Work boots, safety glasses, work gloves, welding jacket; 10-hour OSHA training certificate

Teacher(s): Gravelle, Ralph; Grey, Barbie Jo; Kellogg, Becky
Welding

ARC/MIG/TIG Welder • Metal Fabricator • Welding Inspector