Orleans and Niagara Career and Technical Education Centers

Career & Technical Education Program and Course Catalog



PROGRAM GUIDE

2026-2027

www.onboces.org

WELCOME



Dr. Michael Weyrauch

The Orleans/Niagara BOCES Career and Technical Education (CTE) Centers offer a variety of innovative programs that will provide students various options for continuing their education or seeking employment in the areas of skilled trades, health sciences and technology.

O/N BOCES CTE programs are New York State approved programs that offer attending students the opportunity to earn high school credits towards graduation. Upon successful completion of a state approved CTE course and its national technical assessment, students could be eligible for the NYS Board of Regents Advanced Designation: the Technical Endorsement seal that would be placed on their high school diploma. Additionally, students would be exposed to work-based learning activities that directly relate to the industry they are studying including the possibility for paid and unpaid co-ops with local businesses.

To stay on the leading edge of industry standards, the pursuit and attainment of national certifications/credentials/licenses continue to be a focus for all of our 23 state approved programs. Industry recognizes these as being the highest standards for their particular trade. We pride ourselves on maintaining up-to-date advisory councils with local business partners to ensure our educational content and facilities are in line with current industry standards. In addition to national certifications, our Career and Technical Education programs continue to pursue articulations and dual-credit opportunities with many colleges and universities.

Through rigorous coursework, hands-on application of real-world experiences, and college articulations, students who successfully complete a two-year program of study at either of the two O/N BOCES Career and Technical Education Centers will be better prepared for both college and the 21st Century workforce. We look forward to partnering with you as you explore your current interests and build your skillset to be successful. For more detailed information or questions you may have, please contact any of the Administrators listed below.

Dr. Michael Weyrauch
Director of Career and Technical Education and Adult Education
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Our Centers

Orleans Career and Technical Education Center (OCTEC)
4232 Shelby Basin Road, Medina, NY 14103

Principal: Mrs. Nicole Goyette
716-731-6800, ext: 2230

Assistant Principal: Mrs. Madeline Colby
716-731-6800, ext: 2234

Niagara Career and Technical Education Center (NCTEC)
3181 Saunders Settlement Road, Sanborn, NY 14132

Principal: Mrs. Liz Mastromatteo
716-731-6800, ext: 4440

Assistant Principal: Mrs. Danelle Backe
716-731-6800, ext: 4442

Assistant Principal: Mr. Robert Robinson
716-731-6800, ext: 4423

District Superintendent: Dr. Taweepon Farrar
4232 Shelby Basin Road, Medina, NY 14103
716-731-6800, ext: 2201

NOTES:

Leadership Organizations

SkillsUSA – SkillsUSA is a student leadership organization for students enrolled in any career and technical education program. It is a partnership of students, teachers, business and industry working together to ensure America has a skilled workforce. This national organization promotes leadership, lifelong learning, and dignity of work. The local chapter focuses on teamwork and character development through skills competitions and community service. Students have opportunities to participate in events and competitions throughout the year at the local, state, and national levels.

FFA – FFA is a student leadership organization for students enrolled in agricultural CTE programs. FFA provides opportunities for students to develop skills and participate in leadership activities, community service, career development events, competitions, and real-world agricultural experiences. Our local chapter encourages teamwork, responsibility, and personal growth while helping students prepare for careers in agriculture, natural resources, and related industries. Students have opportunities to participate in events and competitions throughout the year at the local, state, and national levels.

National Technical Honor Society – The National Technical Honor Society recognizes, honors and encourages CTE students who excel at their career and technical education studies and who possess good character and attitude. Students who qualify and successfully complete the nomination process are inducted in a formal ceremony in the fall of their senior year.

Co-Ops

Eligible students will participate in a paid or unpaid work experience in their occupational field of interest. They will discover the connection between academics and employment while they work with experienced professionals and learn marketable job skills.

Unpaid/Co-Op – A structured unpaid work-based learning experience which allows students to shadow an employee during a specific time-frame to gain greater awareness of the scope of the job.

Paid/Co-Op – These experiences allow students the opportunity to consolidate and apply the learning from their coursework into meaningful and relevant career-related experience while getting paid by the employer.

Assessments, Licensure and Certifications

NYS Advanced Regents Designation/CTE Endorsement – Students who successfully complete and pass their state approved CTE program and its designated Technical Assessment, may earn an Advanced Regents Designation/CTE Endorsement on their high school diploma.

Industry Certification/Credentials & Licensure – Our programs prepare students to satisfy requirements and earn local, state, and national certification/credentials/licenses in their training field.

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Mission Statement

The mission of the Orleans/Niagara Board of Cooperative Educational Services is to be the premier provider of innovative and effective solutions for the evolving needs of our component districts and other learning collaboratives.

Our School Districts

Albion Central

Barker Central

Lewiston-Porter Central

Lockport City

Lyndonville Central

Medina Central

Newfane Central

Niagara Falls City

Niagara Wheatfield Central

North Tonawanda City

Royalton-Hartland Central

Starpoint Central

Wilson Central

Possible Career Paths

- **With a 2 year CTE program:**
  CNC Machinists and Tool Makers
- **Associate's Degree:**
  Mechanical Engineering Technician
- **Bachelor's Degree:**
  Mechanical Engineer

Contact Information

Orleans Career and Technical Education Center OCTEC

4232 Shelby Basin Rd.
Medina, NY 14103

Teacher

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Facebook: OCTEC AME Class

Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Road
Sanborn, NY 14132

Teacher

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Advanced Manufacturing and

Over the two-year program students are exposed to Computer Numerical Machining, Computer Aided Design and Welding Technologies. Students will experience how multiple technologies interact in a real manufacturing environment. Laboratory experiences and field trips to local industries help students to understand the manufacturing environment. All students follow approved industry and engineering methods and standards while learning to fabricate industry specific metal products.

At our facility in Medina (OCTEC), this program is only one of three in NY State involved with the NASA Hunch Program. The students in this program are making hardware that will be used on the International Space Station. Currently the program has parts onboard the International Space Station that were fabricated in class on the equipment in this program.

Objectives

1. Acquiring tooling and machining skills utilizing computer driven CNC layout techniques and manual techniques (CNC mills/lathes/plasma and laser machines).
2. Gain knowledge and skills in a variety of metal joining, cutting and fabrication processes.
3. Learn how to create simple and complex parts, understanding how and why these parts are graphically depicted on blueprints.
4. Use various design processes utilizing leading edge software and technologies.
5. Be able to operate machining and fabrication equipment.
6. A global understanding of the design and production processes of metal products.

Units of Study

Shop terminology, blueprint reading, operation of a job shop, complex projects, employment in the machine trades by the spring of their senior year.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Machine Tool Technology/Machinist – 48.0501

Engineering

CLASSROOM INFORMATION

- Large class size
- Able to work in groups and individually
- Shop is large and spread out
- Strick safety standards
- Need to wear appropriate clothing and shoes to participate in shop activities



PROGRAM CONSIDERATIONS

- Fine motor Skills and hand tool use
- Able to properly use power and hand tools



ADDITIONAL INFORMATION

- Students must supply work pants and work boots

The National Award Winning program is two years in length and designed to develop skills which allow graduates to be successful as they enter the Advanced Manufacturing and Engineering fields.

College Articulation Agreements

Alfred State School of Applied Technology

Monroe Community College

SUNY Delhi

SUNY Niagara

Available Certifications

National Institute for Metalworking Skills (NIMS) for:

CNC Machining and Manual Machining

Tooling U-SME

Allied Health

The Health Sciences are currently one of the top three categories that students are declaring as their college major. Our Allied Health Program assists students with an interest in the health sciences in not only gaining real-life experience in health care, but also in making a successful transition to collegiate studies. These students combine one or two years of foundation on which to pursue technical or professional study in college.

Our students gain firsthand knowledge of current and emerging health career opportunities beginning with fundamental knowledge and professional behaviors. They attend hospital-based classrooms located at Lockport Medical Campus in Lockport, Niagara Falls Memorial Medical Center and Orleans Community Health Medina Hospital. All Allied Health students are encouraged to experience a variety of health professions through shadowing experience in the hospitals. Once a student identifies a particular area of interest, they are matched with a mentor and assigned an internship. All mentors are practicing health care professionals, who are willing to share their experience and expertise with students. The Allied Health instructor works closely with the student, parents/guardians, home school guidance department, and mentor in tailoring the internship to meet the needs of the student. In addition, students take field trips to local colleges and universities and they are guided through the college selection and application process.

Objectives

1. To develop a knowledge base in basic health care including anatomy and physiology for students to build upon.
2. To develop a familiarity and confidence in the health care field.
3. To develop experience-based decision making to be used in choosing an appropriate health care profession college major.

Units of Study

Career opportunities in Health Care, Medical Ethics, Communication/ Interpersonal Skills, Medical Terminology, Infection Control, Asepsis and Microbiology, Anatomy and Physiology, Patient Care Skills, Public Health Care Policies, First Aid and Emergency Care, Healthcare Technology, Teamwork and Problem Solving.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

This is not an approved CTE program; integrated academic credits are not provided for students attending this program.

CTE and College dual credit is offered for students who attend.

Possible Career Paths

- Associate's Degree: Radiologic Technologist, increased demand 9%*, Surgical Technician, increased demand 9%*
- Bachelor's Degree: Registered Nurse, increased demand 12%*
- Masters/Doctorate Degree: Physician Assistant, increased demand 31%*, Physical Therapists, increased demand 22%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

*The Orleans Center program is held at the Medina Memorial Hospital and Lockport Medical Campus and Lockport Memorial Hospital.

Niagara Career and Technical Education Center NCTEC

*The Niagara Center program is held at the Niagara Falls Memorial Medical Center and Lockport Medical Campus and Lockport Memorial Hospital.

Teachers

Orleans Community Health
Medina Hospital

Courtney Slack
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Lockport Medical Campus - Lockport

Melissa Brigham
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Niagara Falls
Memorial Medical Center

Amanda Burns
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CLASSROOM INFORMATION

- Rigorous college-level instruction
- Able to work in groups and individually
- Classroom housed off-site at a local medical facility

PROGRAM CONSIDERATIONS

- Professionalism and able to handle sensitive topics related to health care
- Strong academic skills, college level course
- Able to work safely in a busy environment in close proximity to others
- Able to interact in the lab and clinical setting
- Able to handle sensitive topics related to health care
- Strong public speaking, communication skills and attendance record

ADDITIONAL INFORMATION

- Uniforms are required to be purchase by students and worn during on-site clinical experiences
- Current physical required in the fall of junior year and must maintain physical for entire two years
- Enrollment in college level dual credit is available





Our students gain firsthand knowledge of current and emerging health career opportunities beginning with fundamental knowledge and professional behaviors. They attend hospital-based classrooms located at Lockport Medical Campus in Lockport, Niagara Falls Memorial Medical Center and Orleans Community Health Medina Hospital. All Allied Health students are encouraged to experience a variety of health professions through shadowing experience in the hospitals.

College Articulation Agreements

SUNY Niagara

Dual Credit

Genesee Community College (Orleans and Niagara Career & Technical Education Centers)

SUNY Niagara (Orleans and Niagara Career & Technical Education Centers)

Available Certificates

Basic Life Support – CPR & AED

HIPAA Certification

NARCAN Training

Heads Up Concussion Training

Stop the Bleed

Mandated Reporter Training in Child Abuse and Neglect

Possible Career Paths

- Veterinary Assistant, Technician (Veterinary Technicians 15% growth*) or Veterinarian (Veterinarians 17% growth*)
- Laboratory Technician
- Zoologist
- Wildlife Biologist
- Animal Groomer
- Farmer or Rancher

Contact Information

Orleans Career and Technical Education Center OCTEC

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Medina, NY 14103

Teacher

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Niagara Career and Technical Education Center NCTEC

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Sanborn, NY 14132

Teacher
Todd Eick
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Animal Science

Animal Science is a two-year Career and Technical Education program designed to explore the diverse field of animal science. The Animal Science program is for students who have a desire to work with large or small animals. Throughout the program students will recognize the important roles animals play in society from individual ownership to scientific research with far reaching implications.

This technical course teaches specialized and advanced skills in areas such as veterinary assisting, care and handling of animals in a laboratory or veterinary setting, dog grooming, and kennel/pet shop management. This course provides students with the opportunity to care for and be exposed to a wide variety of animals within the classroom and community setting. This science-based program will teach skills in areas such as animal handling, anatomy and physiology, grooming, pet first aid, health and disease, clinical practices, veterinary terminology, and safety and sanitation. Students will operate a grooming parlor that is used as a learning model for the handling and caretaking of animals. They will use the tools of the trade, including diagnostic and grooming equipment. Upon successful completion of this program, students may receive college credits pending established procedures.

Units of Study

Anatomy and Physiology, Animal Behavior, Animal Handling and Restraints, Animal Medicine, Animal Nutrition, Animal Reproduction, Basic Grooming, Breed Identification, Hospital Procedures, Laboratory Techniques, Pet First Aid and Veterinary Terminology.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Veterinary/Animal Health Technology/Technician & Veterinarian Assistant – 51.0808

College Articulation Agreements

Alfred State College

SUNY Delhi

CLASSROOM INFORMATION

- Large class size
- Clinic/lab can be loud and unpredictable
- Students participate in animal dissections
- Instruction is done in large groups with a lecture/demonstration of content presented visually and orally

PROGRAM CONSIDERATIONS

- Fine motor skills for animal restraint and grooming
- Able to assess risks by reading canine postures, ear/eye carriage
- Students are required to work independently and collaboratively in groups
- Able to work well with animals and animal handling (students do not play with animals during class)
- Grooming Clinic is physically demanding
- Strong reading comprehension
- Strong laboratory skills; urinalysis, fecal exam slide preparations, blood smears, suturing…
- Strong Math skills; fractions, decimals, percentages, ratios

ADDITIONAL INFORMATION

- Updated tetanus vaccine required
- Students with allergies, especially to animals, should speak with a physician before registering for this program





Potential Certificates

Growing Farms Online: Intro to Pasture & Grazing Management

BQA (Beef Quality Assurance): Biosecurity

S.A.F.E. Disease & Sanitation

S.A.F.E. Handling

Confident Puppy Program

Conformation for Beginners

Cat Friendly Veterinary Advocate

Pet CPR

Wildlife Rehabilitator

Horse Sense: Equine Youth Safety

Possible Career Paths

- Associate's Degree or Certification: Broadcast and Sound Engineers, increased demand 8%*
- Bachelor's Degree: Film and Video Editors and Camera Operators, increased demand 11%*
- Bachelor's Degree: Producers and Directors, increased demand 5%*
- Bachelor's Degree: Multimedia Artists and Animators, increased demand 4%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Career Opportunities

- Video Technician
- Editor
- Camera Operator
- Screenwriter
- Lighting Technician
- Director
- Sound Technician
- Concept Artist
- Video Game Animator
- Storyboard Artist
- Character Animator
- Motion Graphics Artist
- Medical/Forensic Animator
- Visual Effects Artist

Contact Information

Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Jennifer Manning
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Animation, Film and

This program is designed to help students gain valuable media production experience, and move to the next stage in their career path. Our media production facilities include digital filmmaking and audio equipment, a green screen studio space, and Macintosh workstations. Students use the same industry-standard software as professional filmmakers and animators, including Adobe Photoshop, Adobe Premiere Pro, Adobe After Effects, Toon Boom Harmony and Autodesk Maya. Students enrolling in this program should have strong communication skills (visual and written), excellent attendance, a strong work ethic, creativity, organizational skills, time management, problem solving skills and the ability to meet deadlines.

Objectives

1. Identify basic terminology, concepts and techniques of animation and film production.
2. Gain hands-on, industry specific experience with current technologies, equipment and methods of 2D and 3D animation, film production and visual effects, both individually and in teams.
3. Utilize the basic principles of animation in the production of a variety of 2D and 3D animated work.
4. Utilize the principles of composition, lighting, color, typography, audio, motion graphics, production planning, and non-linear editing to complete technical exercises and produce short films.
5. Participate in critiques to analyze student work.
6. Create a demo reel of media work which gives students an advantage in their pursuit of a career or further education.

First Year: Animation (afternoon session)

Design Fundamentals, Vector Drawing, Animation History, Principles of Animation, Storyboarding, 2D Animation Techniques, Audio and Lip Sync, 3D Modeling and Animation, and Demo Reel Creation.

Second Year: Film and Visual Effects (morning session)

Principles of Composition, Image Editing, Camera Operation, Non-linear Editing, Screenwriting, Storyboarding, Sound Design, Lighting Techniques, Motion Graphics, Visual Effects, Compositing Techniques, and Demo Reel Creation.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

Visual Effects

CLASSROOM INFORMATION

- College-level coursework
- Able to focus on a task on a computer screen for 1+ hours
- Application/interview process for admission

PROGRAM CONSIDERATIONS

- Responsible use of technology and equipment
- Able to work in groups and individually
- Able to follow multi-step directions
- Strong computer and academic skills
- Strong time management skills
- Excellent attendance
- Strong communication skills
- Organizational skills
- Problem solving skills
- Artistic skills and creativity

ADDITIONAL INFORMATION

- Software licenses provided to students include at-home use





NYS Approved Program Title & CIP Code

Animation, Interactive Technology, Video Graphics and Special Effects – 10.0304

This program is designed to help students gain valuable media production experience and prepare them to move to the next stage of an exciting career in animation, filmmaking or visual effects.

College Articulation Agreements

Daemen University
SUNY Niagara (Formerly NCCC)
Villa Maria College

Software Skills

Toon Boom Harmony
Autodesk Maya
Adobe Photoshop
Adobe Premiere Pro
Adobe After Effects
Adobe Audition

YouScience Industry Certifications

3D Graphics
3D Animation
Digital Media
Video Production
Digital Audio

Auto Collision and Repair

Auto Collision and Repair is a two-year program for juniors and seniors. This program is for students who want to learn to repair, refinish and paint automobile bodies, fenders and frames. Students will also learn about auto electric, computer controls, suspensions, brakes and HVAC. This program is I-CAR and ASE certified.

Objectives

1. Understand the basic inspection, estimation and sequential planning of repair work.
2. Learn skills necessary in the repair techniques and procedures for auto body repair and painting.
3. Develop familiarity with parts, tools and equipment common to the auto body repair industry.
4. Learn safe work habits.
5. Develop job seeking employability skills necessary to succeed in the working world.

Units of Study

Safety Procedures, Hand and Power Tools, Automobile Construction, Materials, Fasteners and Equipment, Resistance and Metal Arc Welding, Sheet Metal Work, Vehicle Surface Preparation, Fillers and Body Repairs, Panel Replacement and Adjustment, Refinishing Equipment and Procedures, Final Detailing, Vehicle Damage Estimation, Advanced Spray Techniques and Blending, Remove and Install Auto Body Parts, Principals of Sectioning, Bonding and Adhesive Technology, Plastic Body Panel Welding and Repair, Unibody and Frame Repair Basics, Plastic Repair and Work Experience.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Auto Body/Collision and Repair Technology/Technician – 47.0603

Possible Career Paths

- With a 2 year CTE program: Detail Technician, increased demand 9%*
- Collision Technician
- Collision Estimator (Working for Shop or Insurance Company)
- Detailing Services
- Shop Ownership
- Painting/Refinish Technician

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

4232 Shelby Basin Rd.
Medina, NY 14103

Teacher

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Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Tim Deasy
tdeasy@onboces.org

CLASSROOM INFORMATION

- Large class size
- Shop can be loud and unpredictable

PROGRAM CONSIDERATIONS

- Stamina and strength to stand, lift and move equipment parts
- Able to complete repetitive work
- Able to properly use power and hand tools
- Physical strength to lift up to 30+ lbs
- Able to work in groups and individually

ADDITIONAL INFORMATION

- Student will need to have work boots and be dressed safely and appropriately to participate in labs
- Students with allergies and sensitivities to dust and fumes should speak with a physician before registering for this program





Auto Body is for students who want to learn to repair, refinish and paint automobile bodies, fenders and frames. Students will also learn about body trim, hardware, door locks, remote controls, glass window regulators. I-CAR certification available.

College Articulation Agreements

Alfred State School of Applied Technology
Universal Technical Institute
Ohio Technical College
Morrisville State College

Available Certificates

I-CAR
ASE (Automotive Service Excellence)
Painting and Refinishing (PR)
Structural Analysis and Damage Repair (SR)
Non-Structural Analysis and Damage Repair (NS)
Mechanical and Electrical (ME)

Automotive Technology

Automotive Technology is a two-year program open to all students in their junior and senior years. The program is designed to help prepare the student who wants to enter the automotive field in an independent repair facility, a new or used car dealership, a fleet maintenance repair shop or parts distribution facility. This program is ASE certified.

Objectives

1. Prepare students for entry into the automotive field.
2. Develop safe work habits.
3. Orient students in the shop environment.
4. Promote proper use of tools and equipment.
5. Develop the ability to apply technical information to tasks assigned.
6. Attain skills needed for the proper diagnosis of vehicle problems and to make needed repairs.
7. Develop good work habits needed to acquire employment.
8. Help the student acquire job seeking skills needed to find employment within the automotive field.

Units of Study

Safety in the Workplace, Automobile and Auto Systems, Careers and Employment, Tools and Equipment, Measurement, Fasteners, Vehicle Maintenance, NYS Inspection, Gas and MIG Welding, Brake Systems, Suspension, Steering and Wheel Alignment, Basic Engine Theory and Repair, Basic Electrical, Lighting and Accessories, Batteries, Starting and Charging Systems, Computer Systems, Ignition Systems, Fuel Systems and Emission Systems.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Automobile/Automotive Mechanics Technology/Technician – 47.0604

Possible Career Paths

- With a 2 year CTE program: Automotive Technician, increased demand 6%*
- Auto Technician
- Parts Specialist
- Service Writer
- Auto Sales
- Lube Technician

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

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Teacher

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Niagara Career and Technical Education Center NCTEC

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Teachers

Joe Croff
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CLASSROOM INFORMATION

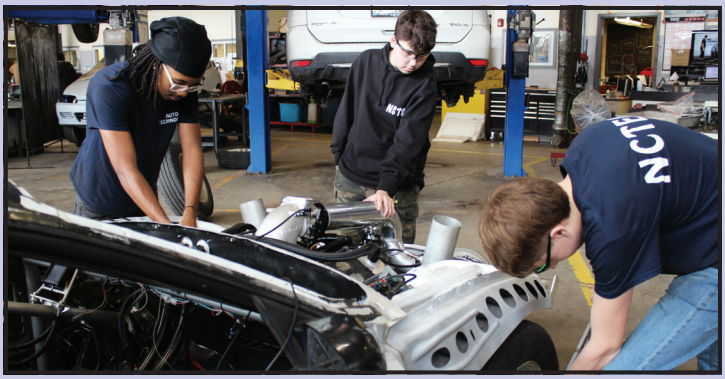
- Large class size
- Shop can be loud and unpredictable
- Shop is large and spread out
- Will be working with hazardous materials (gasoline, oil, etc)
- Strict safety standards

PROGRAM CONSIDERATIONS

- Fine motor Skills and hand tool use
- Able to properly use power and hand tools
- Physical strength to lift up to 30+ lbs.
- Strong technical reading skills
- Able to work in groups and individually
- Work-Based Learning Experience - Unpaid Co-Op (Shadowing)

ADDITIONAL INFORMATION

- Student will need to have work boots and be dressed safely and appropriately to participate in labs
- Need to wear appropriate clothing and shoes to participate in shop activities





The program is designed to help prepare the student who wants to enter the automotive field in an independent repair facility, a new or used car dealership, a fleet of maintenance repair shops or a parts distribution facility. This program is ASE certified.

College Articulation Agreements

Alfred State School of Applied Technology
Ohio Technical College
SUNY Delhi
Universal Technical Institute
Morrisville State College

Available Certificates

The National Institute for Automotive Service Excellence (ASE) - Engines, Suspension, Electrical, Brakes (4 Areas):

- Suspension & Steering
- Brakes
- Electrical/Electronic System
- Maintenance & Light Repair
- Automobile Service Tech

ASE Entry Level Certification
You Science Precision Exam
Automotive Service Fundamentals Exam

Building Trades

Building Trades is a two-year program open to all students in their junior and senior year. This program is designed to prepare students to enter directly into the construction field or continue their education at a post-secondary level. Students will develop skills for planning and controlling the operation and repair of equipment and buildings, including HVAC, electrical and plumbing. Along with this training students also prepare to enter directly into the workforce with the help of partnerships with Be Your Own Hero and the Construction Exchange of WNY. Learn the fundamentals of residential carpentry and learn the skills to rehabilitate an existing house. Gain experience in wall, ceiling and roof framing, exterior finishing, trimming, windows and doors, insulation and floor systems.

Objectives

1. Learn necessary skills in the use of tools and equipment common to a carpenter, mason and plumber.
2. Understanding of common structures, their parts and relationships to each other.
3. Understand the theoretical aspects of carpentry, masonry and plumbing.
4. Successfully develop positive work habits which include responsibility, following instructions and the ability to work with others.
5. Acquire job seeking/employability skills necessary to succeed in the working world.

Units of Study

Rough Framing, Finish Carpentry, Plumbing, Exterior Finishes, Interior Finishes, Energy Efficiency/Home Performance, Insulation and Air Sealing, Jobsite Safety, Power Tools, Estimating, Blueprint Reading, Masonry and Heavy Equipment.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Carpentry/Carpenter – 46.0201

Possible Career Paths

- With a 2 year CTE program: Construction Laborers and Helpers, increased demand 11%, Carpenters, increased demand 8%*, Masonry Worker, increased demand 11%
- Bachelor's Degree: Construction Manager, increased demand 10%, Civil Engineer, increased demand 6%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

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Medina, NY 14103

Teacher

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Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Michael Carney
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CLASSROOM INFORMATION

- Large class size
- Rigorous safety standards (OHSA compliance mandated)
- Physically demanding
- Building trades shop can be very loud
- Building trades shop is very large and spread out
- Students may be outside working year round
- Students will work on ladders, scaffolding roof, etc
- Instruction is done in large groups with a lecture/ demonstration of content presented visually and orally



PROGRAM CONSIDERATIONS

- Able to understand and follow safety standards
- Able to lift 50+ lbs
- Able to work on ladders, scaffolding, roofs,etc.
- Able to follow multi-step directions
- Able to properly use power and hand tools
- Strong math skills, algebra, geometry, conversions, fractions, complex numbers
- Strong reading comprehension
- Teamwork and cooperation a must



ADDITIONAL INFORMATION

- Student will need to have work boots and be dressed safely and appropriately to participate in labs
- Students with allergies and sensitivities to dust should speak with a physician before registering for this program

The Building Trades program is designed to prepare students to enter directly into the construction field or continue their education at a post-secondary level. Students build small projects and also work as a team to build full-scale projects in the career center. Students will also use their skills to work on service projects in the local community.

College Articulation Agreements

Alfred State School of Applied Technology
SUNY Delhi
SUNY Erie (Formerly Erie Community College)

Dual Credit

SUNY Erie (Formerly Erie Community College)

Available Certifications

Home Energy Analyst and Technician (H.E.A.T.)
Occupational Safety & Health Administration (OSHA)
The United Brotherhood of Carpenters and Joiners of America (UBC) - OTMC, I, II
Bobcat Safety

Certified Personal Trainer

The Certified Personal Trainer program is a two-year program for juniors and seniors in high school. This course is designed for the individual seeking competency in health, fitness and exercise instruction. Students will perform fundamental health and fitness assessments and learn to design and implement fitness programs for the healthy population. During the course, students are provided with the most relevant scientific information regarding the assessment, design and implementation of safe, effective and efficient personal exercise instruction.

Upon completion of this program, students will be academically prepared to take the American Council of Exercise Certification Examination (ACE) or The National Academy of Sports Medicine Certification Examination (NASM), and enter related college programs such as: Physical Therapy, Athletic Training, Exercise Science, Physical and Health Education, Dietetics as well as Nutrition.

Objectives

1. To learn anatomy.
2. Perform CPR and AED.
3. Develop a knowledge of health and fitness.
4. Learn about health screening and evaluation.
5. Study nutrition and weight management.
6. Develop proper training techniques.
7. Help clients with meeting their health and fitness goals.

Units of Study

Careers in Health and Fitness, Health and Wellness, Nutrition, Anatomy and Physiology, Anaerobic versus Aerobic Training Techniques, Screening and Evaluations, Fitness Training, Personal Training Techniques, Exercise Program Design, and Starting Your Own Personal Training Business.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Athletic Training/Trainer – 51.0913

Possible Career Paths

- With a 2 year CTE program: Fitness Trainers and Instructors, increased demand 13%*, Recreation Workers, increased demand 8%
- Associate's Degree: Physical Therapist Assistant or Aide, increased demand 22%*
- Bachelor's Degree: Athletic Trainers, increased demand 19%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

4232 Shelby Basin Rd.
Medina, NY 14103

Teacher

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Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Jared Karas
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CLASSROOM INFORMATION

- Large class size
- Physically Demanding (cardo and strength training regularly)
- Students will be required to work in close proximity of others
- Able to work in groups and individually

PROGRAM CONSIDERATIONS

- Able to adhere to high standards for safety and hygiene
- Strong science skills; Anatomy, physiology, kinesiology, nutrition
- Strong reading comprehension skills

ADDITIONAL INFORMATION

- Students are responsible for purchasing a uniform for the fitness lab
- Appropriate attire and sneakers require daily





This course is designed for the individual seeking competency in health, fitness and exercise instruction. Students will perform fundamental health and fitness assessments and learn to design and implement fitness programs for the healthy population.

College Articulation Agreements

SUNY Niagara

SUNY Erie

Available Certifications

CPR

National Academy of Sports Medicine - Certified Personal Trainer (NASM-CPT)

HIPAA Training

Group Fitness Instructor Certification (AFAA-CGFI)

Physical Education and Health 1/2 credit

Computer Technology

This program is open to all students in their junior or senior year of high school. Students will learn about all aspects of computer technology including software packages, operating systems and hardware architecture. Students are eligible for Comp TIA-A+ certification.

Objectives

1. Basic computer technology and network concepts.
2. Proficiency with software packages including Microsoft Office.
3. Knowledge of internet security concerns and how to maintain a safe computing environment.
4. Fundamentals of cyber security.
5. Describe and assemble a computer system.
6. Installation of an operating system.
7. Troubleshooting computer issues by using system tools and diagnostic software.
8. Exploration of programming and web design.

Units of Study

Introduction to Computers, Introduction to Microsoft Office, Operating Systems (various), Computer Hardware and Systems (CISCO IT), Networking, Programming (Javascript, Python), Web Design (HTML & CSS), Cyber Security, Database Design and AI computing.

How to Enroll

Orleans/Niagara BOCES partners with local school districts and businesses to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Computer Technology/Computer Systems Technology – 15.1202

Possible Career Paths

- With a 2 year CTE program: Computer Support Specialist, increased demand 10%*
- Associate's Degree: Computer Programmer and Computer Systems Analyst
- Bachelor's Degree: Computer and Information Systems Manager, increased demand 11%*, Information Security Analysts, increased demand 32%

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

4232 Shelby Basin Rd.
Medina, NY 14103

Teacher

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Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Jeffrey Brown
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CLASSROOM INFORMATION

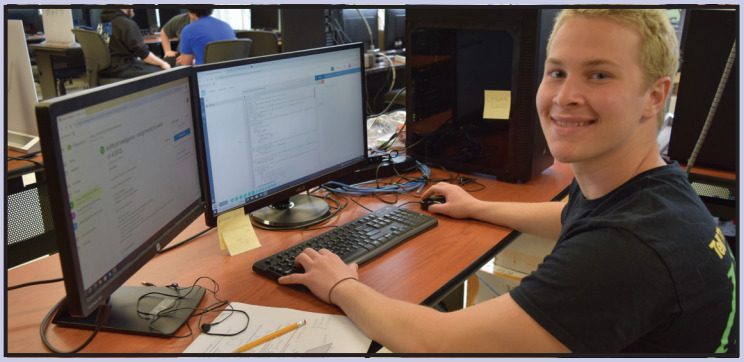
- College-level coursework
- Able to focus on a task on a screen for one + hours

PROGRAM CONSIDERATIONS

- Able to focus on a task for 1+ hours
- Responsible to ethical use of technology and equipment
- Strong computer and math skills
- Strong time management skills

ADDITIONAL INFORMATION

- Opportunities to compete in regional, state and national computer competitions
- Site visits to M&T Tech Hub and Yahoo Data Center





The Computer Technology curriculum teaches students about all aspects of computer technology including standard software packages, operating systems, programming, databases and hardware architecture.

College Articulation Agreements

SUNY Delhi

SUNY Niagara (CAP)

SUNY GCC (Genesee Community College)

Available Certifications

CISCO - IT Essentials

CompTIA (A)

CompTIA (B)

CISCO - Linux Essentials

CISCO - Cybersecurity

Possible Career Paths

- Associate's Degree: Environmental Science and Protection Technicians, increased demand 9%*
- Bachelor's Degree: Ecologist, increased demand 11%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Jay Kaplewicz
jkaplewicz@onboces.org

Conservation

Conservation is a two-year program open to all students in their junior or senior year. This program is designed to give students a better understanding of our natural resources and the reasoning for preservation and management with activity based learning experiences.

Objectives

1. To prepare students for entry level occupations in the Conservation/ Natural Resources fields.
2. Prepare students for advanced studies at two and four year colleges.
3. Offer students college level studies and college credits.
4. Develop hands-on skills used in the natural resource career area.
5. Demonstrate and participate in new and emerging trends and techniques in the conservation field.
6. To get students up from their desk and outside.
7. Research land management including woodlots, parks and recreational facilities. Participate in various equipment operations, environmental water quality monitoring, wildlife management projects and power equipment service.
8. Learn greenhouse management by operating onsite greenhouse and maintaining heating, watering and ventilation systems, forest and floral stock and monitoring temperature, moisture and nutrient levels. Students will also construct research areas on hydroponics, aquaponics, ornamental pools and waterfalls.

Units of Study

Forestry – Tree identification, conducting timber cruise, managing a woodlot, Invasive Species Management, operating a chainsaw and safety. Wildlife – Identify, track and monitor a variety of wildlife species. Survey and manage wildlife habitat. Maintain a fish hatchery operation. Develop, conduct wildlife habitat enhancement activities, mycology and horticultural - learning how to grow food indoors and outdoors using various methods.. Wood Products Production – Identification of merchantable timber and fell trees using industry safety standards. Operation of a lumber mill to produce lumber stock. Design and construct projects from the trees you harvested. Equipment Operations – Learn the design, safe operation and maintenance on various machines and equipment. Compete – Show your skills with individual and team events sponsored by SkillsUSA, and the New York State Envirothon and New York State Parks F.O.R.C.E.S. (Friends of Recreation, Conservation and Environmental Stewardship) volunteer program and New York State Conservation Competition.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

CLASSROOM INFORMATION

- Large class size
- Able to work in groups and individually

PROGRAM CONSIDERATIONS

- Strong science skills; Anatomy, physiology, kinesiology, nutrition
- Strong reading comprehension skills

ADDITIONAL INFORMATION

- Students must supply and be prepared with work pants and work boots daily.
- Need to wear appropriate clothing and work boots to participate in shop activities.





NYS Approved Program Title & CIP Code

Natural Resources and Conservation – 03.9999

This program is designed to give students a better understanding of our natural resources and the reasoning for preserving them with activity based learning experiences.

College Articulation Agreements

SUNY Niagara

Universal Technical Institute

Morrisville State College

Available Certifications

Bobcat Training - Skid Steer and Mini Excavator

Power Tool Institute

OSHA 10 Hour

Cosmetology

Cosmetology is a two-year program for juniors and seniors. In this program students learn the basic techniques of Cosmetology needed for licensing. These techniques are put to use in a full-service salon, which is open to the public. After students successfully complete 1000 hours of Cosmetology, they are prepared to apply for licensing through New York State.

Objectives

1. Learn necessary skills to meet the standards set forth by the State Education Department Cosmetology and Department of Licenses.
2. To train students for gainful employment in the field of Cosmetology.
3. Develop in each student the self-confidence and positive attitude regarding their skills as a professional cosmetologist.
4. Encourage a sense of professionalism and high ethical standards.

Units of Study

Sterilization and Sanitation, Skin Care, Facials and Cosmetics, Haircutting and Styling, Manicures and Pedicures, Scalp and Hair Treatments, Permanent Waving, Thermal Curling, Artificial Nails, Chemical Hair Reconstruction, Hair Color and Decolorization, Temporary Hair Removal, Salon Management and Ownership, Hair Extensions and Wigs.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Cosmetology/Cosmetologist, General – 12.0401

Possible Career Paths

- With a Completion of 2 year CTE Program & obtaining NYS licensure: Hair Stylist, increased demand 8%*
- Associate's Degree: Business Owner, increased demand 3%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center (OCTEC)

4232 Shelby Basin Rd.
Medina, NY 14103

Teachers

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Niagara Career and Technical Education Center (NCTEC)

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teachers

Pauline Carney
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Erica Cook
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Jill Fisher
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CLASSROOM INFORMATION

- Large class size
- The salon is a professional environment
- Students will be required to work in close proximity of others

PROGRAM CONSIDERATIONS

- Excellent Attendance
- Able to adhere to professional standards
- Able to stand for the majority of class time
- Able to properly use sharp implements (shears, feather razor, etc.)
- Able to communicate effectively with clients in classroom
- Able to follow basic direction prompts (right, left, etc.)
- Strong time management skills
- Fine motor skills

ADDITIONAL INFORMATION

- Students are responsible for purchasing a uniform and Cosmetology kits are available
- Additional steps are necessary for NYS licensing (1000 hour requirement)





Gain hands-on experience in hairstyling, hair coloring, skin care/cosmetics, and nail technology. The training you receive will prepare you to take the New York State Cosmetology State Board Examination (Written and Practical) to become a licensed cosmetologist.

College Articulation Agreements

SUNY Niagara

Available Certifications

NYS Cosmetology License

Infection Control Certifications

Culinary Arts

This program is open to all juniors and seniors. Students in this program will be exposed to a variety of careers within the culinary arts and food preparation field. By actual participation, students will become familiar with the workings of modern kitchen while preparing foods of various types. This training will prepare them for future employment in both preparation and serving. This program also qualifies students for acceptance at post-secondary schools specializing in training necessary to become entry level positions, restaurant managers, restaurant management, restaurant owners, or to become instructors of culinary arts trades. New York ProStart Program is available.

Objectives

1. Develop the skills needed in operating food equipment efficiently and safely; handling of foods, storage, cooking techniques and proper safe temperatures.
2. Have students prepare food in a hygienic and sanitary manner, working with Board of Health regulations.
3. Familiarize students with various techniques used in food preparation for occasions such as buffets, catering, formal dinners, short order cooking, fast food operations and takeout services.
4. Aid students in developing the initiative and confidence that is needed to succeed in the food service trades, and the styles of foods that people want today such as: low fat, low cholesterol, high nutritional value, healthy alternatives and dietary restrictions.
5. Stress the importance of working in harmony with other students, working in a professional manner and time management.
6. Develop job seeking abilities necessary to succeed in the working world.

Units of Study

Sanitation, Hand Tools, Safety, Customer Relations, Business Math, Basic Cooking Skills, Commercial Baking, Cooking Techniques such as: Meats, Poultry, Seafood, Stocks, Sauces and Soups, Garde Manager: Eggs, Breakfast, Sandwiches, Fruits, Vegetables, Pasta and Grains, Menu Planning and Nutrition.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Culinary Arts/Chef Training – 12.0503

Possible Career Paths

- With a 2 year CTE program: Cooks, increased demand 11%*
- Associate's Degree: Restaurant Manager, increased demand 9%*
- Bachelor's Degree: Food Scientist, increased demand 7%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

4232 Shelby Basin Rd.
Medina, NY 14103

Teacher

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Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teachers

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Caitlin Kucharski
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CLASSROOM INFORMATION

- Large class size
- Physically demanding
- Kitchen is often loud, busy, and hot
- Strict safety standards
- Fast-paced

PROGRAM CONSIDERATIONS

- Fine motor skills
- Able to work in groups and individually
- Physical strength to lift up to 25 lbs.
- Work with sharp knives and electrical baking/ cooking equipment
- Maintain food safety and sanitation
- Able to transition from one task to another quickly
- Strong reading comprehension skills
- Line kitchen work & catering required

ADDITIONAL INFORMATION

- Uniform is required to be purchased





Students in this program will be exposed to a variety of careers within the culinary arts and food preparation field. Through active participation, students will become familiar with the workings of a modern kitchen while preparing foods of various types.

College Articulation Agreements

Alfred State School of Applied Technology

Culinary Institute of America

SUNY Niagara

Available Certifications

ProStart

ServSafe Mangers Certification

ServSafe Food Handler Certification

Possible Career Paths

- With a 2 year CTE program: Diesel Service Technician, increased demand 5%*
- Service Technician
- Parts Specialist
- Mobile Mechanic
- Equipment Operator
- Manufacturer's Representative

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

4232 Shelby Basin Rd.
Medina, NY 14103

Teacher

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Sanborn, NY 14132

Teacher

Westin Blidy
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Diesel Technology/Heavy

Heavy Equipment/Diesel/Agriculture Mechanics is a two-year program open to all high school juniors and seniors. Students who have found an interest in working with machines in the construction, agriculture, trucking, lawn and garden industry, welding and the Armed Forces should consider this program. Students will be working on trucks (pickups and semis), tractors, forklifts, backhoes, bulldozers, skid steers and excavators. Students will also work in groups for engine teardown, overhaul and failure analysis.

Objectives

1. Provide instruction to help students achieve the skills and experiences necessary so that they may gain employment.
2. Prepare students that wish to study at college with general repair knowledge to help them achieve success in their post-secondary goals.
3. Develop job seeking skills necessary to find and obtain employment in the field of their choice.
4. Assist students in developing and maintaining work habits, proper attitudes, and the ability to work harmoniously with others.
5. Provide students with leadership training activities that will enlarge their vision and enrich their lives for better citizenship through FFA and SkillsUSA organizations.

Units of Study

Safety Overhaul/Service and Tune-up Medium and Heavy Duty Diesel Engines, Basic Welding (Arc, Acetylene, MIG), Air Conditioning Service and Troubleshooting, Transmissions/Clutches/Torque Converters and Air Brake Systems, Heavy Equipment Preventative Maintenance, Troubleshoot and Service Hydraulic Systems, 12/24 Volt Electrical Charging and Starting Circuits, Electronic Engine Controls and Troubleshooting, Heavy Equipment Operation.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

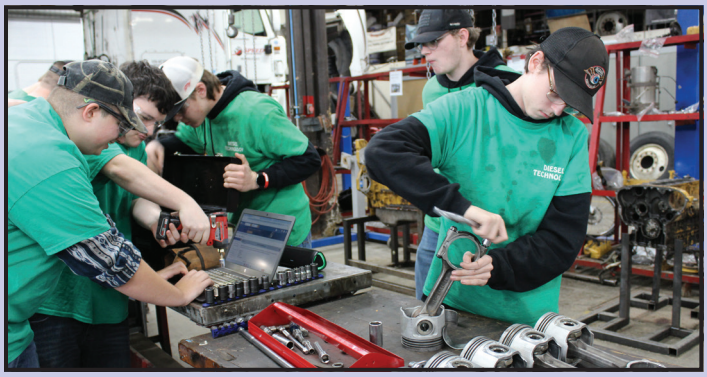
NYS Approved Program Title & CIP Code

Diesel Mechanics Technology/Technician – 47.0605

Equipment

CLASSROOM INFORMATION

- Large class size
- Able to work in groups and individually
- Shop can be loud and unpredictable
- Shop is large and spread out
- Will be working with hazardous materials (gasoline, oil, etc)
- Strict safety standards
- Need to wear appropriate clothing and shoes to participate in shop activities



PROGRAM CONSIDERATIONS

- Fine motor Skills and hand tool use
- Able to properly use power and hand tools
- Physical strength to lift up to 30+ lbs.
- Strong technical reading skills



ADDITIONAL INFORMATION

- Students must supply work pants and work boots

Diesel Technology/Heavy Equipment is a two-year program open to all high school juniors and seniors. Students who have found an interest in working with machines in the transportation, construction, or agricultural industry should consider this program. Students will be working on various pieces of equipment such as, bulldozers, skid steers, excavators and trucks. Students will work in groups on projects including engine teardown, overhaul and failure analysis.

College Articulation Agreements

Alfred State School of Applied Technology

Ohio Technical College

SUNY Cobleskill

Universal Technical Institute

Available Certifications

Occupational Safety & Health Administration (OSHA) 10 Hour Certification, Global Air Conditioning Certification (Lifetime), The National Institute for Automotive Service Excellence (ASE) - Engines, Suspension, Electrical, Brakes (4 Areas). Students that complete the two year BOCES program will also receive one year of work credit towards certification.

Basic Construction Equipment Safety, Operation and Maintenance

Early Childhood Education

This program has several options open to all students in their junior and senior years. Students spend a portion of their time teaching preschool children and gain hands-on experiences working in the on-site preschool program. Students completing this program will gain experience working with children three to five years of age. The curriculum includes several professional development opportunities such as Disabilities Awareness training; Identification and Reporting of Child Abuse for Mandated Reporters; Adult, Infant and Child CPR and Standard First Aid.

Objectives

1. Help students maintain a safe, healthy and nurturing environment for children.
2. Assist the student with developing communication skills with children and adults.
3. Familiarize students of appropriate child guidance techniques and classroom management.
4. Understand the stages of development birth to eight years.
5. Learn principles of child development in order to create developmentally appropriate activities.
6. Develop the skills needed in seeking employment working with young children.

Units of Study

During the program students will: Read Aloud with Children, Child Guidance Techniques, Observation and Assessment, Health and Safety in a Child Care Setting, Areas of Development: Physical, Cognitive, Social and Emotional, Classroom Environment, Nutrition, Family Involvement, Day Care Regulations, Professionalism, Diversity in Education, Teaching Children with Special Needs, Developmental Theory, Developmentally Appropriate Practice in Art, Science, Math and Literacy.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Child Care Provider/Assistant – 19.0709

Possible Career Paths

- With a 2 year CTE program: Childcare Assistant, increased demand 7%*
- Associate's Degree/CDA Credential: Daycare Teacher, increased demand 7%*
- Bachelor's Degree: Childcare Center Director, Public School Teacher, increased demand 7%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

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Medina, NY 14103

Teacher

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Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Laura Koeppel
lkoeppel@onboces.org

CLASSROOM INFORMATION

- Large class size
- Able to lift 50+ lbs and be physically active in a play setting

PROGRAM CONSIDERATIONS

- Fine motor skills and hand tool use
- Able to work in a fast-paced environment
- Able to work with multiple sensory experiences with children (playdoh, slimes, paint, sensory bins, etc)
- Strong reading comprehension skills
- Strong writing skills to create and write lesson plans
- Strong communication and public speaking skills
- Students will interact in the preschool classroom with many younger students with supervision by the instructor
- Able to work independently and responsibly with children ages 3-5 years while adhering to strict safety practices/standards

ADDITIONAL INFORMATION

- Current physical and tuberculosis screening required





Students spend a portion of their time teaching preschool children and gain hands-on experiences working in the on-site preschool program. Students completing this program will gain experience working with children two to five years of age.

College Articulation Agreements

Mohawk Valley Community College

SUNY Niagara

SUNY Cobleskill

Dual Credit

Genesee Community College (Orleans Career & Technical Education Center)

Available Certifications

CPR

Identifying and Responding to Anaphylaxis

Mandated Reporter of Child Abuse and Neglect

Education Professions

Possible Career Paths

- Associate's Degree:
  Teacher Aide
  Library Media Technician
- Bachelor's Degree
  Career & Technical Ed
  Teacher Adult / ESOL
  Teacher
- Bachelor's -> Master's Degree:
  Elementary Teacher
  Intermediate Teacher
  Middle School Teacher
  High School Teacher
  Special Education Teacher
  Art/ Music/Language/PE
  Library Media Specialist
  Speech / Physical Therapist
  Occupational Therapist
  Facilities Manager
- Masters/Doctorate Degree:
  Curriculum Specialist
  School Psychology
  College Professor
  Educational Administration
  School Business Specialist
  Educational Law

Contact Information

Orleans Career and Technical Education Center OCTEC

Students will attend Genesee Community College Medina Campus

Niagara Career and Technical Education Center NCTEC

Students will attend SUNY Niagara (Formerly NCCC)

Teachers

TBD

1 Year Program

Education is a job field that has been in high demand and will continue to be so in the future. There is an increasing need for qualified professionals to fill the roles of teachers, administrators, counselors, and other education-related positions. The Education Professions Program provides an intensive one-year program for high school students who are looking to jump-start their careers in this field. This program is designed for academically strong-minded students who anticipate attending college after high school graduation. The program offers a comprehensive curriculum that covers many aspects of education, including careers in education, pedagogy, and classroom management.

Students will receive their training through a combination of traditional classroom learning and hands-on experience to prepare them for their careers. They will receive theory instruction in a classroom at Niagara County Community College or Genesee Community College at the Medina Campus. Students may also enroll to obtain college credits through their coursework in the program. The hands-on experience permits students to shadow and intern in a school classroom environment and at other educational field areas. Students can concentrate and participate in a work- study based on their self-interest.

The methodology of combining classroom learning and hands-on experiences are essential for students who want to excel in their future careers. The program produces a straightforward transition from the high school setting to the college setting and the world of work.

Objectives

1. Develop a knowledge base in education, including but not limited to, philosophy, social and historical foundations, developmental and pedagogical theory.
2. Promote a familiarity to the students with the wide array of occupations in the educational field.
3. Generate an experience and guidance for the students to make an informed decision in choosing an appropriate college major.

Units of Study

Students receive introductory instruction in Educational History, Human Development, Developmental Psychology, Curriculum and Instruction, Classroom Management, School Organization, Education Policy, Educational Economics, Educational Reform.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

This is not an approved CTE program; integrated academic credits are not state-approved for students attending this program. College dual credit is offered for students who attend.

CLASSROOM INFORMATION

- Rigorous college-level instruction
- Able to work in groups and individually
- Classroom housed off-site at a local college

PROGRAM CONSIDERATIONS

- Professionalism and able to work safely in a busy environment in close proximity to others
- Strong academic skills, college level course
- Strong public speaking, communication skills and attendance record

ADDITIONAL INFORMATION

- Enrollment in college level dual credit is available





Students will have the opportunity to Shadow and Intern in a wide range of educational settings, including:

- **Primary Education (K-2)**
- **Intermediate Education (3-5)**
- **Middle School Education (6-8)**
- **High School Education (9-12)**
- **Special Education, Library/Media, TESOL, Speech**
- **Choice of Art, Music, Phys. Ed, Language, Technology**
- **Choice OT/PT, Psychology, Social Work, Counseling**
- **College/University Education**
- **Administration**
- **Adult / Migrant / Incarcerated Education**

Dual Credit

SUNY Niagara (Formerly NCCC) (Niagara Career & Technical Education Center)

- 16 College Credits, *SUNY Niagara Tuition @ CAP Rate (*Tuition Payment is Required)*

Genesee Community College (Orleans Career & Technical Education Center)

- 16 College Credits, *GCC Tuition @ ACE Rate *(Tuition Payment is Required)*

** Tuition rates are subject to change (anticipate an increase for the 2024-2025 School Year). Tuition is payable to the College. Dual Credit Coursework is subject to change at any time.*

Available Certifications

- Mandated Reporter
- Dignity for All Students Act
- Safe Schools Training

Electricity and Electronics

This is a two-year program for juniors and seniors which allows students the opportunity to attain entry level job skills and/or prepare for additional in-depth training in the Electricity/Electronics field. Students will study Electronics Technology with many analog and digital projects to build. Residential house wiring and industrial motor controls along with training on PLC's (Programmable Logic Controller) are part of the program. Classes may wire a modular home or work on projects outside of the Career and Technical Ed Center. Students will be given job-seeking skills and be assisted in finding jobs near the end of their second year. We have had multiple State and National SkillsUSA Champions in this program.

Objectives

1. Understand the theory of Electricity: Ohms, Volts, Amps and Watts.
2. Learn the use of hand tools and how to solder projects.
3. Understand how to wire a house with NEC Codes.
4. Learn ladder logic and industrial motor-control.
5. Develop skills needed to bend metal and PVC conduit.
6. Learn how to wire and program PLC's.
7. Familiarize students with the basics of solar power in the use of home construction.

Units of Study

Electrical Safety, Hand and Power Tools, Electrical Theory, Reading Electrical Schematics, Proper Soldering Techniques, Digital Multi-Meters, Residential Wiring, Commercial and Industrial Wiring, NEC Code Book, Installing Breaker Panels, Programming PLC's, Motor Control, Alternative Energy Sources, Bending Conduit, and Alarm Systems.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Electrician – 46.0302

Possible Career Paths

- With a 2 year CTE program: Electricians, increased demand 10%*
- Associate's Degree: Electronics Technician, increased demand 2%*
- Bachelor's Degree: Electrical Engineer, increased demand 2%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

4232 Shelby Basin Rd.
Medina, NY 14103

Teacher

Steven Tarricone
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Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
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Teachers

Isaac Dauphin
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Robert Logan Spain
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CLASSROOM INFORMATION

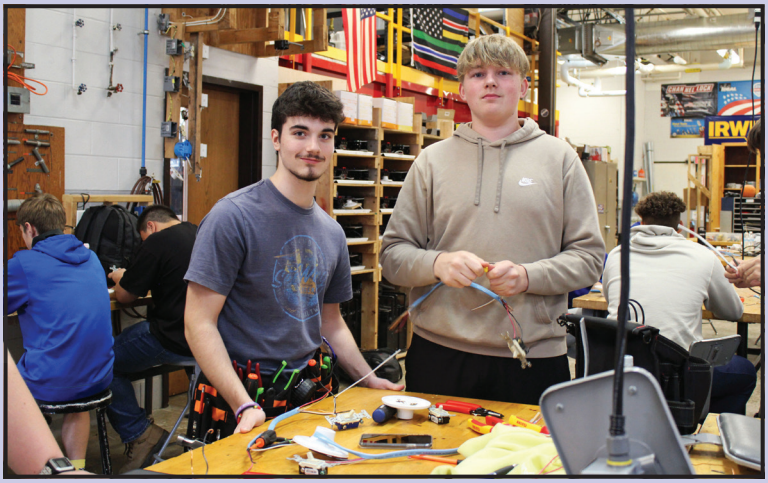
- Large class size
- Rigorous safety standards (OHSA compliance mandated)
- Physically demanding
- Shop can be very loud

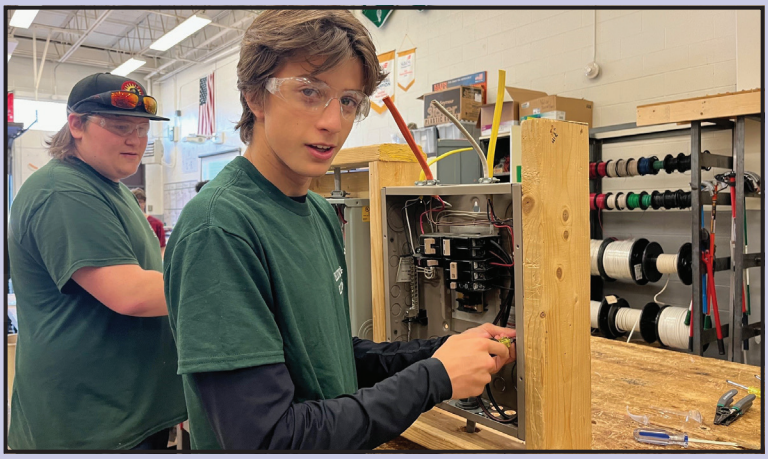
PROGRAM CONSIDERATIONS

- Able to work in groups and individually
- Able to understand and follow safety standards
- Able to lift 50+ lbs
- Able to work on ladders, scaffolding, roofs,etc
- Able to follow multi-step directions
- Able to properly use power and hand tools
- Strong math skills, algebra, geometry, conversions, fractions, complex numbers
- Strong reading comprehension

ADDITIONAL INFORMATION

- Student will need to have work boots and be dressed safely and appropriately to participate in labs





This two-year program allows students the opportunity to attain entry level job skills and/or prepare for additional in-depth training in the Electricity and Electronics field. Students will study electronics technology as well as residential and commercial wiring by NEC codes.

College Articulation Agreements

Alfred State School of Applied Technology

Mohawk Valley Community College

Available Certifications

Occupational Safety & Health Administration (OSHA) 10 Hour Certification

Possible Career Paths

- With a 2 year CTE program: EMT, increased demand 7%*
- Associate's Degree/ Additional Certifications: Paramedic, increased demand 7%*
- Bachelor's Degree: Emergency Management Director, increased demand 5%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Rodney Hogg
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Emergency Medical Services

Junior students participate in learning events covering firefighter safety, personal protective equipment (PPE), self-contained breathing apparatus inspection and cylinder changing, fire department communications, building construction and fire behavior, portable fire extinguishers, rope and knot tying, ground ladders, forcible entry, tactical ventilation theory, hose and fire streams, orientation to fire origin and cause determination, fire prevention and life safety initiatives, and Hazardous Materials First Responder Operations. The student will receive Basic Exterior Firefighting Operations (BEFO) course certification equivalency.

Senior year will prepare students to perform lifesaving skills and to gain hands-on experience and real-world medical training that prepares them for careers in emergency services, healthcare and public safety. Students will be learning how to provide immediate lifesaving care to critical patients who access the EMS system. Students can become certified as Emergency Medical Technicians (EMT).

EMS - Objectives

1. Perform the roles and responsibilities of an EMT concerning personal safety and wellness, as well as the safety of others, medical, legal, and ethical issues.
2. Apply principles of anatomy, physiology, pathophysiology, lifespan development, and therapeutic communications to assess and manage patients.
3. Identify the need for and perform immediate lifesaving interventions to manage a patient's airway, breathing, and circulation, various complaints, medical conditions, and traumatic injuries.
4. Emergency Medical Technician Certified

EMS - Units of Study

Introduction to EMS, the Human Body, Medical Terminology, Artificial Ventilation, Oxygenation, Resuscitation, Medical Emergencies, Trauma Emergencies, Special Populations, Operations, Terrorism and Mass Casualty Incidents.

Firefighting- Objectives

1. Continue to gain proficiency in the firefighting and fire rescue knowledge and skills required for Basic External Firefighting Operations (BEFO) and Hazardous Materials First Responder Operations (HMFRO).
2. To equip new firefighters with the essential knowledge and skills to operate safely and effectively outside the immediate fire area.
3. Explain the purpose and structure of FEMA, NIMS, and the Incident Command System

Firefighting - Units of Study

Students participate in learning events covering firefighter safety, including fire behavior, building construction, PPE/SCBA (awareness), communications, forcible entry, tactical ventilation theory, incident management, fire extinguishers, hose practices, water supply, ground ladders, ropes/knots, fire prevention, and Hazmat Awareness.

& Firefighting

CLASSROOM INFORMATION

- Large class size
- Shop can be loud and unpredictable
- Shop is large and spread out
- Will be working with hazardous materials (gasoline, oil, etc)

PROGRAM CONSIDERATIONS

- Fine motor skills and hand tool use
- Able to properly use power and hand tools
- Physical strength to lift up to 30+ lbs
- Strong technical reading skills
- Able to work in groups and individually

ADDITIONAL INFORMATION

- Students must supply work pants and work boots
- Need to wear appropriate clothing and shoes to participate in shop activities





How to Enroll

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NYS Approved Program Title & CIP Codes

Emergency Medical Technology/Technician (EMT Paramedic) – 51.0906

Fire Science/Firefighting – 43.0203

College Articulation Agreements

SUNY Niagara (CAP)

Mohawk Valley Community College

Certifications

NYS Certification for EMT
CPR/AED
Incident Command Systems (ICS) 100, 700, 200 & 800
Hazardous Materials Awareness
HIPAA
Mandated Reporter for Child Abuse and Neglect
BEFO (Basic Exterior Firefighting Operation)

Possible Career Paths

- With a 2 year CTE program: Retail Sales, Tailor, Visual Merchandiser, Home Stager, Store Manager, Fashion Stylist and Social Media Creator.
- Bachelor's Degree: Interior Designer, Fashion Designer, Promotions, Marketing, increased demand 4%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Debra Wilczak
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Fashion Design and Interior

Fashion Design and Interior Decorating is a two-year program for juniors and seniors. During the two year program, students will focus on fashion illustration, the elements and principles of design, textile science, apparel design and construction, pattern making methods, professional sewing techniques, visual merchandising, marketing and promotion, and interior floor planning and styles.

Each year the senior class plans and organizes an annual fashion show. Junior and Senior year students showcase their fashion collection with models walking the runway.

Enrolled students can earn credits that will satisfy core academic requirements in English Language Arts, Math and Science. Through the integration of these core academics, achieving a Regents Diploma remains in reach.

Objectives

1. Be able to discuss the business of fashion including marketing and advertising strategies.
2. Understand the use of textiles for apparel and interiors.
3. Demonstrate pattern making skills using flat pattern and draping techniques.
4. Construct apparel and interior furnishings using professional skills.
5. Create visually pleasing displays.
6. Perform measuring and layout skills for interior styling.
7. Organize and produce a live fashion show.

Units of Study

During the program, students will study the Elements and Principles of Design, Textile Science, Fashion and Interior History, Fashion Psychology, Illustration, Marketing and Merchandising, Apparel Production, Interior Styles, Floor Planning, Selecting and arranging furniture, Fashion Show Production, Industry careers.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Apparel and Textile Manufacture – 19.0902

Decorating

CLASSROOM INFORMATION

- Able to work in groups and individually
- Good attendance required
- Students are required to work in close proximity to others

PROGRAM CONSIDERATIONS

- Fine motor skills
- Ability to focus on tasks at hand 1+ hours
- Ability to follow multiple step directions
- Able to trouble shoot independently
- Able to work in a busy environment
- Able to manage multiple projects simultaneously
- Strong time management skills
- Strong organizational skills
- Strong math skills; measuring, conversions, fractions

ADDITIONAL INFORMATION

- Photoshop
- Sketchup





Fashion Design and Interior Decorating is a two-year program combining both theory and practical techniques based on the business of fashion, apparel design and construction, interior design and textiles. Math and science skills are critical to the success of design students, as well as abstract thinking skills and creative problem solving methods.

Dual Credit

Buffalo State University

- Fashion and Creativity
- Garment Construction

Graphic Communications

The Graphic Communications program is for junior and senior students who are interested in entering the photography, multimedia, printing and advertising industries. Students will learn skills in layout and design with the latest software for digital illustration, photo imaging, digital photography, web design and publishing. Through project development, students will discover and design for the promotional world of advertising and marketing. After students experience multiple areas within the graphic communication field, they will choose their favorite area to focus on and master in their senior year.

Objectives

1. Fundamental skills in the multi-faceted industry of graphic communications.
2. Learn the latest design software to achieve acceptable standards of work in the graphic design industry.
3. Apply traditional methods and digital technology in creative expression.
4. Utilize and understand production procedures in the print industry.
5. Gain hands on, industry specific experiences in producing graphic communications projects from start to finish.
6. Introduction of various forms of print including web, mobile and print.
7. Explore creativity and technology of graphic communications through various media, including current industry software.

Units of Study

Safety, Print Design, Typography, Color Theory, Proofreading, Measurement, Drawing/Tonal Drawing Styles, Lithography, Intaglio, Relief, Screen Digital Printing Methods, Prepress, Principles and Elements of Design, Web/Mobile Design and Layout, Package Design, Advertising and Marketing, Digital/Studio Photography, History of Graphic Design, Traditional and Digital Illustration, and Finishing and Bindery Methods.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Graphic Printing Equipment Operator, General Production – 10.0305

Possible Career Paths

- With a 2 year CTE program: Craft and Fine Artists, increased demand 1%*
- Associate's Degree: Web Developer, increased demand 13%*
- Bachelor's Degree: Graphic Designers, increased demand 3%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Susan Staddon
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CLASSROOM INFORMATION

- Able to work in groups and individually
- Will be working with hazardous materials (emulsion/stripper)
- Strict safety standards
- Need to wear appropriate clothing and shoes to participate in shop activities

PROGRAM CONSIDERATIONS

- Fine motor skills and hand tool use
- Strong technical reading skills

ADDITIONAL INFORMATION

- Students must supply:
  - Two USB thumb-drives
  - SD Card
  - Optional: Personal Camera





The Graphic Communications curriculum combines art, design, technology and production. Students learn the skills involved in the creation and production of graphic products from print to new media.

College Articulation Agreements

Fulton-Montgomery Community College

Mohawk Valley Community College

SUNY Canton

Health Occupations

This program is available to juniors and seniors. The Health Occupations program addresses this demand in a two-year program that focuses on the art and science of providing patient care with real-life experience in a variety of health care settings. Emphasis is placed on providing safe, reliable, ethical, and a respectful patient care.

This is a very active program with classroom, lab and clinical components. Each of the components is designed to prepare students to care for diverse individuals of all ages, from birth to the end stages of life. Students will experience all aspects of the health care field from illness and injury to gain real life experience. Our students gain first-hand clinical experience in local long term care facilities.

After successful completion of the HO program students are eligible to take the NYS Nursing Assistant Certification exam and enter into the workforce. In addition, graduates also develop a foundation on which to make informed decisions regarding their future choices in health care employment and potential future education in the health care professions.

Objectives

1. Health Occupations Education Core
2. Introduction to Clinical Settings
3. Exploratory of Health Fields
4. Certified Nurse's Assistant – Long Term Care (State Certification Exam)
5. CPR Certification

Units of Study

Health Care Agencies, Resident/Patient Rights, Ethics, Communication, Body Structure and Function, Growth and Development, Care of the Older Person, Safety, Body Mechanics, Infection Prevention, Providing Personal Care, Nutrition, Elimination, Vital Signs, Respiratory Support, Rehabilitation, Diseases and Disorders, Dementia, Developmental Disabilities, Basic Emergency Care, End-of-Life Care, Job Management Skills, Personal Health and Wellness.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Nurse/Nurse Assistant/Aide and Patient Care Assistant – 51.1614

Possible Career Paths

- With a 2 year CTE program: Certified Nursing Assistant, increased demand 9%*
- Licensed Practical Nurse, increased demand 11%
- Surgical Tech, increased demand 9%
- Sterilization, increased demand 9%
- Home Health Care, increased demand 36%
- Associate's Degree: Radiology, increased demand 9%*
- Bachelor's Degree: Registered Nurse, increased demand 12%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

4232 Shelby Basin Rd.
Medina, NY 14103

Teachers

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Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Darcy Bouchard
dbouchard@onboces.org

CLASSROOM INFORMATION

- Physically demanding
- Able to work in groups and individually

PROGRAM CONSIDERATIONS

- Professionalism
- Able to work safely in a busy environment in close proximity to others
- Able to interact in the lab and clinical setting
- Able to handle sensitive topics related to health care
- Able to physically assist patient with mobility limitations
- Strong science skills: anatomy and physiology
- Strong public speaking and communication skills
- Strong attendance record

ADDITIONAL INFORMATION

- Uniforms are required to be purchase by students and worn during on-site clinical experiences
- Current physical required in the fall of junior year and must maintain physical for entire tow years
- Additional steps are necessary to become a certified nursing assistant





This is a very active program with classroom, lab and clinical components. Each of the components is designed to prepare students to care for diverse individuals of all ages, from birth to the end stages of life. Students will experience all aspects of the health care field from illness and injury to gain real life experience. Our students gain first-hand clinical experience in local long term care facilities.

Available Certifications

NYS Certified Nursing Home Nurse Aide (CNA)

CPR/AED

The Health Insurance Portability and Accountability Act (HIPAA)

First Aid

NARCAN Training

Possible Career Paths

- With a 2 year CTE program: Plumber/Pipe Fitter, increased demand 14%*, HVAC/R Technician, increased demand 13%*
- Bachelor's Degree: Mechanical Engineer, increased demand 4%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

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Teacher

Todd Kijowski
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Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Nick DiFelice
ndifelice@onboces.org

Fritz Gorbach
wgorbach@onboces.org

Heating/Ventilation/Air

HVAC is a two-year program for juniors and seniors. This program is designed to provide students with employability skills in the service and installation of residential and commercial heating, air conditioning and refrigeration units. This is a comprehensive technical and hands-on training program that covers all critical aspects of the HVAC/R field. Students will learn to install, maintain, troubleshoot and repair both residential and commercial systems in a fully operational HVAC/R lab. Instruction includes wireless and Wi-Fi control systems. OSHA certification is available to all students for additional cost. EPA is available to students who want it (extra cost).

Objectives

1. Students will be given the opportunity to work on actual field equipment and modern environmental control systems.
2. "Real Life" on the job training for second year students who will spend up to 60 hours of field training with local HVAC companies. Students will learn from experienced professionals in installing, servicing, sales, project management and engineering.

Units of Study

Introduction to Heating and Cooling, Refrigeration Fundamentals, Air Distribution Systems, Electricity and Control Circuits, Gas and Oil Burners, Refrigeration Recovery, Boilers, Transformers and Motors, Installation and Service of Standard and High Tech Gas, Oil, Electric and Hydronic Heating, Pressure Systems, Air Conditioning Installation and Servicing, Humidification and De-humidification, and Reclaiming and Recycling Refrigerants.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician – 47.0201

Conditioning and Refrigeration

CLASSROOM INFORMATION

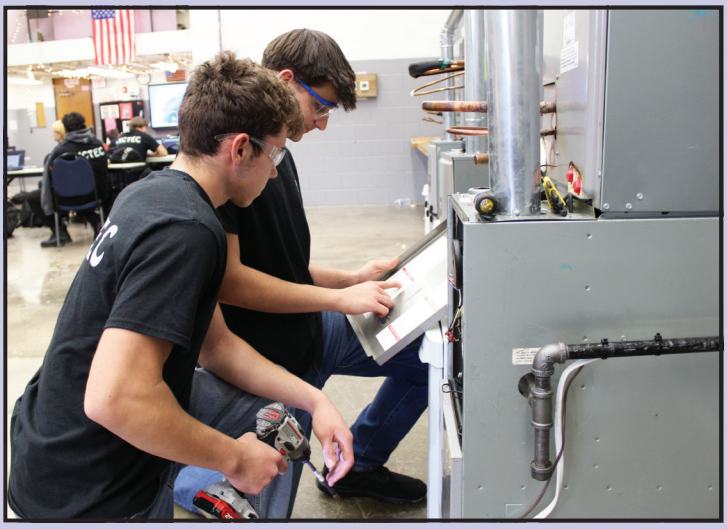
- Rigorous safety standards (OHSA compliance offered)
- Physically demanding
- Shop can be very loud
- Shop is spread out
- Students may be outside working year round
- Instruction is done in groups with a lecture/ demonstration of content presented visually and orally

PROGRAM CONSIDERATIONS

- Able to understand and follow safety standards
- Able to lift 50+ lbs
- Able to work on ladders, scaffolding, roofs,etc
- Able to follow multi-step directions
- Able to properly use power and hand tools

ADDITIONAL INFORMATION

- Student will need to have work boots and be dressed safely and appropriately to participate in labs





Heating/Ventilation/Air Conditioning and Refrigeration (HVAC) is a two-year program designed to provide students with employability skills in the service and installation of residential and commercial heating and cooling.

College Articulation Agreements

Mohawk Valley Community College
SUNY Delhi
SUNY Erie

Available Certifications

Section 608 EPA Technician Certification
Occupational Safety & Health Administration (OSHA) 10 Hour Certification

Security and Law

Students will engage in the fundamentals of law enforcement and security. Instruction will include: defensive tactics, proper handcuffing skills, appropriate use of a police baton, firearms safety training, police traffic stops, crime scene investigations, evidence handling and evidence packaging. Additional areas of instruction will include: emergency responses, arrest procedures, photographing and fingerprinting a suspect. Fingerprint training encompasses recognition, analysis and matching of fingerprints. The laws of New York State and the Federal government will be prominent throughout the course of study. Professional certificates available are: NYS Security Guard certification; First Aid/Combat Lifesaver; CPR/AED certification; NYS Mandated Reporter, NARCAN/Drug Overdose Prevention and Defensive Tactics/ Self Defense certification.

Objectives

1. Treat every student fairly and foster respect and dignity in the classroom.
2. Introduce you to all sectors and areas of security and law; allowing you to make a realistic and educated career choice.
3. Give you theoretical and practical skills in law and security to make you competitive as an applicant or new recruit for a law enforcement agency.
4. Improve physical and mental readiness to become a successful security or corrections officer.
5. Develop and expand your critical thinking and problem solving skills; preparing you for the work force or college.

Units of Study

Leadership, Values and Ethics in Law Enforcement, US Government, Branches of Government, Definition of Crime, Criminology, Supporting Victims, Police and Society, Courts and Case Process, Investigations, Trials and Court Personnel, Sentencing, Corrections, Capital Punishment and Juvenile Justice.

How to Enroll

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NYS Approved Program Title & CIP Code

Criminal Justice/Police Science – 43.0107

Possible Career Paths

- With a 2 year CTE program: Private Security Officer, increased demand 4%*
- Civil Service: Court Officer Corrections
- Associate's Degree: Law Enforcement Officer, increased demand 5%*
- Bachelor's Degree:, Forensic Science Technicians, increased demand 14%*
- Master's Degree:, Lawyer, increased demand 6%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

4232 Shelby Basin Rd.
Medina, NY 14103

Teacher

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Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Dudley Gilbert
dgilbert@onboces.org

Enforcement

CLASSROOM INFORMATION

- Real world experience
- Students will participate in physical training activities
- Able to work in groups and individually

PROGRAM CONSIDERATIONS

- Respectful of other peoples' ideas and beliefs
- Able to handle sensitive content related to criminal justice
- Able to problem-solve and think creatively
- Strong verbal and written communication skills, including public speaking
- Strong moral and ethical character

ADDITIONAL INFORMATION

- Students are required to purchase a uniform
- 1/2 credit for Physical Education





As a Law Enforcement cadet you will be meeting community leaders and conducting real world police training with the possibility of earning college credit. The purpose of this course is to prepare you for a career in security, law enforcement, corrections and/or the military which requires you to be mentally, physically, morally strong and dedicated.

College Articulation Agreements

Hilbert College
SUNY Delhi
SUNY Niagara
Villa Maria College

Available Certifications

NYS Security Guard
NYS Mandated Reporter for Child Abuse & Neglect
CPR/AED
First Aid/Combat LifeSaver
Hazardous Material Awareness
Introduction to the FEMA Incident Command System - ICS 100
Introduction to the FEMA National Incident Management System - ICS 700
Empower the Girls or Strategies of Safety
Vector Training - Selected Courses

Possible Career Paths

- 2 year CTE program
- Associate's Degree: Web Developers, increased demand 13%*
- Bachelor's Degree: Software Developer, increased demand 21%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

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Website:
https://mlefauve.wixsite.com/class

Web and Game Development

The Web and Game Development program is geared toward students interested in exploring computer programming, web technologies, and the creativity and technology of game creation. Students in this program will develop skills in coding, interactive design, game theory and development, and mobile game app creation using industry-standard programming languages and development tools. The program consists of one year of Web Development and one year of Game Development. Potential careers include web developer, interface designer, artificial intelligence programmer, quality assurance tester, software designer, game programmer, mobile app developer, and other computer science careers.

Objectives

1. Utilize a game engine to create 2-D and 3-D games.
2. Learn foundational skills of web development, including navigation, links, images, graphics, styling, and responsive web design.
3. Learn computational thinking.
4. Gain experience with interface design.

Units of Study (2D Digital, 3D Digital, and Board)

Game creation (digital, board, and escape room), game theory, programming logic, JavaScript, Python, website functionality, interface design, color theory, typography, design and layout principles, and sprite creation.

How to Enroll

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NYS Approved Program Title & CIP Code

Game and Interactive Media Design – 50.0411

CLASSROOM INFORMATION

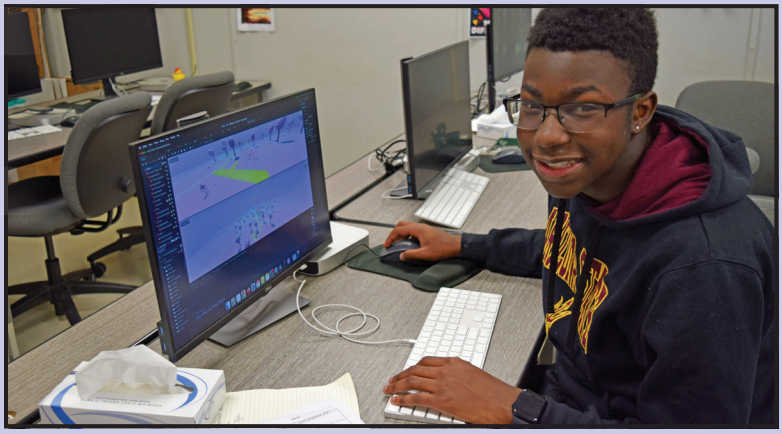
- Application/interview process for admission

PROGRAM CONSIDERATIONS

- Able to focus on a task for 1+ hours
- Strong computer and math skills
- Strong time management skills
- Able to follow multiple step directions
- Able to troubleshoot independently
- Independent learner
- Responsible to ethical use of technology and equipment

ADDITIONAL INFORMATION

- Tech Academy lanyard is required to be purchased and worn as class uniform
- Student will need to supply:
  - 3-ring binder
  - Ruled paper
  - Two or more USB flash drives
  - Headphones or earbuds





Students will learn industry standard software and programming languages hands-on by creating their own websites and games. The Web & Game Development program gives students a jumpstart on college by building a foundational understanding of programming logic and design principles. It also helps them to develop critical thinking skills and an eye for detail. Skills learned in this class can be applied to a myriad of careers.

College Articulation Agreements

SUNY Niagara

Software Skills

Adobe Photoshop

Godot

Pulsar IDE

Visual Studio

Coding Language Skills

HTML 5

CSS3

JavaScript

Python

YouScience Industry Certifications

Busines Web Page Design

Game Development

Computer Programming

Computer Technology

Welding

The welding program is a two-year program for juniors and seniors. This program is designed to develop skills in all areas of welding and metal fabrication, but most specifically those areas where there is the greatest employment potential. This two-year program will ensure good working skills in welding. Approximately one-quarter of the course is devoted to metal fabrication methods and production of welded items.

Objectives

1. Learn safe and sound procedures.
2. Develop and acquire skills and concepts.
3. Select and utilize a wide variety of measuring and blueprint reading.
4. Understand the usage of metallurgy and the science of metal.
5. Assist in developing acceptable work habits and attitudes.
6. Develop job-seeking skills necessary to succeed in the world of work.

Units of Study

First Year: Shop Safety, Oxy-Acetylene Welding, Cutting and Brazing, Basic Arc Welding, Measurement and Basic Blueprint Reading, Basic Welding Inspection, Discontinuities/Defects, Hand Tools, Set Up Operations, Basic MIG Welding with common Joints, Basic Metallurgy, CNC Plasma Cutting.

Second Year: Review of the First Year, Welding and Cutting Safety, Gas Tungsten Arc Welding (TIG) of Steel, Aluminum and Stainless Steel, Gas Metal Arc Welding (MIG) Steel and Aluminum, Welding Inspection (interpret weld discontinuities/defects), American Welding Society Entry-Level Certification, Basic Rigging, Flux-Core Welding, Advance Shielded Metal Arc Welding (Stick), Pipe Welding, Metal Fabrication, Metallurgy, Blueprint Reading, Plasma Arc Cutting.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Welding Technology/Welder – 48.0508

Possible Career Paths

- With a 2 year CTE program: Welders, Cutters, Solderers, and Brazers, increased demand 3%*
- Associate's Degree: Commercial Welding Diver, increased demand 9.5%*
- Bachelor's Degree: Mechanical Engineers, increased demand 4%*

**Projected national growth for 2018-2028, US Bureau of Labor Statistics*

Contact Information

Orleans Career and Technical Education Center OCTEC

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Teacher

Verenice Bragg
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Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teachers

Shane Bartella
sbartella@onboces.org

Eric Farrell
efarrell@onboces.org

CLASSROOM INFORMATION

- Large class size
- Safety protocols are rigorous
- Work in loud hot and physical environment
- Requires physical exertion and standing for long periods of time

PROGRAM CONSIDERATIONS

- Able to wear a welding helmet in shop for long periods of time
- Able to follow multistep directions
- Able to properly use tools and materials while adhering to strict safety procedures
- Able to handle working in bright lights for prolonged periods of time
- Able to lift 50+ lbs
- Strong math skills; algebra, geometry, conversions, fractions, complex numbers
- Strong hand-eye coordination

ADDITIONAL INFORMATION

- Student will need to have work boots and be dressed safely and appropriately to participate in labs
- Students with allergies and sensitivities to dust should speak with a physician before registering for this program.





The welding program is designed to develop skills in all areas of welding and metal fabrication, but most specifically those areas where there is the greatest employment potential.

College Articulation Agreements

Alfred State School of Applied Technology

Mohawk Valley Community College

Ohio Technical College

SUNY Delhi

SUNY Niagara (CAP)

Universal Technical Institute

Available Certifications

AWS-GMAW, SMAW, FCAW, Pipe, Vertical Welding

OSHA 10 Hour Course Certification

Contact Information

Orleans Career and Technical Education Center OCTEC - Afternoon

4232 Shelby Basin Rd.
Medina, NY 14103

Teacher

Alan Benevento
abenevento@onboces.org

Niagara Career and Technical Education Center NCTEC - Morning

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Jeff Keller
jkeller@onboces.org

Explore CTE

Explore CTE is a 20-week course, half- or full-year option, designed for 9th and 10th-grade students to introduce them to various skilled trades. Explore CTE aims to expose students to multiple skilled trade disciplines, helping them identify their interests and aptitudes while developing foundational skills. By integrating hands-on learning with career exploration, students gain valuable experience and insight into potential career paths, setting the stage for future specialized training opportunities. The program will prepare them for enrollment into the two-year CTE program.

Benefits to Students

1. **Career Awareness** – Explore CTE allows students to explore multiple trades, fostering informed career decision-making and early career planning.
2. **Skill Development** – Through practical applications, students acquire basic trade skills that enhance their employability and future training opportunities.
3. **Engagement and Retention** – Many students thrive in hands-on learning environments, improving their motivation and academic engagement.
4. W**ork Based Learning** – Approximately 200 seat time hours and 60 WBL hours would be eligible to be put forth toward CDOS credential.

Program Structure

Explore CTE students would attend the AM session, five days a week, following the same schedule as the senior CTE students. The program is structured with a rotating schedule covering two different trades for 90 minutes each day, three days a week for a two-week duration. The program will cover most skilled trade programs available in 16 weeks of the 20-week course. The remaining two days each week will focus on the academic instruction to support the workplace skills and practical skills they are gaining during each of the shadowing experiences.

Potential Credits

CTE 1.0, CFM .5, Tech Elective .5

CLASSROOM INFORMATION

- Able to work in collaboratively and in groups
- Ability to complete tasks independently
- Ability to follow safety protocols

PROGRAM CONSIDERATIONS

- May require physical exertion
- Will be in multiple shops and large classroom settings
- May be exposed to loud noises, heat, food and outside exposure in the various shop settings

ADDITIONAL INFORMATION

- Clothing to ensure safety; such as work boots, work pants and outside apparel





Explore CTE is a 20-week morning course—offered as a half- or full-year option—created for 9th- and 10th-grade students to explore a variety of skilled trades. This five day a week course offers students a rotation through a variety of CTE programs three days a week while exploring career interests and employability skillsets.

Emphasis will be on:

1. Attendance – Needed for successful employment.
2. Interpersonal Relations – The ability to work effectively with others.
3. Communication Skills – To develop effective communication skills.
4. Responsibility/Time Management – To work effectively in completing assigned tasks.
5. Workplace/Personal Safety – To protect oneself and others.
6. Personal Hygiene/ Appearance – To dress appropriately in the workplace.

Contact Information

Niagara Career and Technical Education Center NCTEC

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Jeff Keller
jkeller@onboces.org

Vocational-Individually Paced Automotive Services

Students will learn fundamental skills and knowledge in the automotive industry. Students who successfully complete this course may be eligible to meet the requirements set forth by the NYS Department of Education for the Career Development and Occupational Studies (CDOS) credential. Required course work and work based learning hours can be tracked and documented for these students. Students that start in this course and develop both the employability and fundamental automotive skills may be prepared to move into two-year CTE programs.

Objectives

1. Auto Service – Developing the skills needed to service an automobile and exposure to jobs available in the industry.
2. Automotive Maintenance – The occupational skills needed to maintain and repair everyday needs of the automobile as performed by service centers.
3. Automotive Repair – Developing basic mechanical skills used by automotive mechanics in a working service shop.

Units of Study

Safety Procedures, Customer Relations, Vehicle Detailing, Vehicle Fluids, Tire Service, Brake Service, Vehicle Repair, Vehicle Estimation, Oxy/Acetylene Torches, Belts and Hoses, NYS Inspection, Steering and Suspension, Tools and Equipment, Under Hood Checks, Lubrication, Oil and Filter Changes, Battery Service, Cooling System Service.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

CLASSROOM INFORMATION

- Able to work in groups or individually
- Ability to follow safety protocols
- Shop can be loud and unpredictable
- May work with automotive fluids and materials

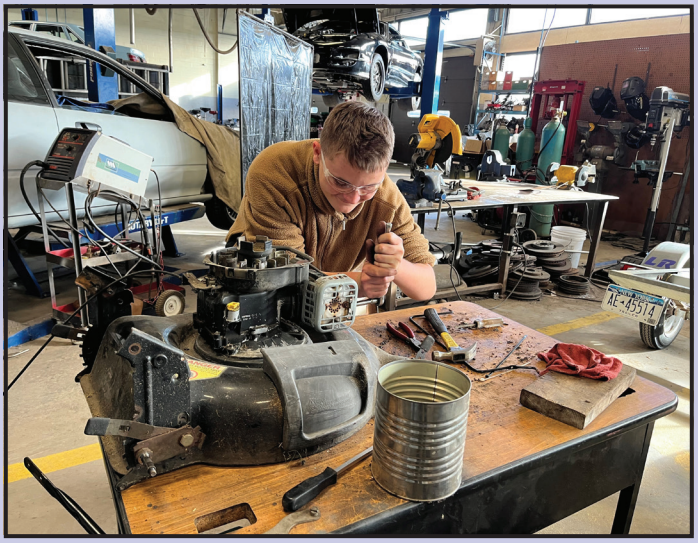
PROGRAM CONSIDERATIONS

- May require physical exertion
- May be exposed to loud noises in shop setting
- May be exposed to inclement weather conditions both inside and outside

ADDITIONAL INFORMATION

- Clothing to ensure safety, such as work boots, work pants and outside apparel





Vocational-Individually Paced (VIP) Career & Technical courses are designed to meet the needs of students who require a smaller learning environment and a curriculum pace that meets the needs of the students in grades 10-12. Courses will provide introductory skills in various career and technical areas in preparation for future life and employment skills.

Available Certifications

S/P2 Safety & Pollution Prevention Training

Emphasis will be on:

1. Attendance – Needed for successful employment.
2. Interpersonal Relations – The ability to work effectively with others.
3. Communication Skills – To develop effective communication skills.
4. Responsibility/Time Management – To work effectively in completing assigned tasks.
5. Workplace/Personal Safety – To protect oneself and others.
6. Personal Hygiene/ Appearance – To dress appropriately in the workplace.

Contact Information

Orleans Career and Technical Education Center
OCTEC - Afternoon

4232 Shelby Basin Rd.
Medina, NY 14103

Niagara Career and Technical Education Center
NCTEC - Morning

3181 Saunders Settlement Rd.
Sanborn, NY 14132

Teacher

Alan Benevento
abenevento@onboces.org

Vocational-Individually Paced Food Service

Students will learn fundamental skills and knowledge in the food preparation industry. Students who successfully complete this course may be eligible to meet the requirements set forth by the NYS Department of Education for the Career Development and Occupational Studies (CDOS) credential. Required course work and work based learning hours can be tracked and documented for these students. Students that start in this course and develop both the employability and fundamental culinary skills may be prepared to move into two-year CTE programs.

Objectives

1. Overview of food preparation.
2. Employability skills.
3. Exploration with global and gourmet foods.
4. Exploration in food science and food service operations.

Units of Study

Food Service Equipment, Food Safety and Sanitation, Standard Recipes, Soups, Salads, Sandwiches, Vegetables, Fruits, Breakfast, Cooking Techniques, Knife Skills, Employability Skills, Measuring Instruments and Math, Science and ELA.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

CLASSROOM INFORMATION

- Able to work in groups and individually
- Ability to follow food safety protocols
- Working with a wide variety of food materials and cooking equipment
- Kitchen can be loud, busy and hot



PROGRAM CONSIDERATIONS

- Required to wear a uniform
- Work with sharp knives
- May be exposed to loud noises in classroom setting

ADDITIONAL INFORMATION

- Clothing to ensure safety, such as work boots, work pants and outside apparel



Vocational-Individually Paced (VIP) Career & Technical courses are designed to meet the needs of students who require a smaller learning environment and a curriculum pace that meets the needs of the students in grades 10-12. Courses will provide introductory skills in various career and technical areas in preparation for future life and employment skills.

Emphasis will be on:

1. Attendance – Needed for successful employment.
2. Interpersonal Relations – The ability to work effectively with others.
3. Communication Skills – To develop effective communication skills.
4. Responsibility/Time Management – To work effectively in completing assigned tasks.
5. Workplace/Personal Safety – To protect oneself and others.
6. Personal Hygiene/ Appearance – To dress appropriately in the workplace.

Contact Information

Orleans Career and Technical Education Center OCTEC

4232 Shelby Basin Rd.
Medina, NY 14103

Teacher

Jason Royce
jroyce@onboces.org

Vocational-Individually Paced Landscaping and Building & Grounds and Construction

The VIP Landscaping & Building Grounds and Construction program provides students with hands-on learning experiences in landscaping, grounds maintenance, basic construction, and building maintenance. Designed for students who benefit from individualized instruction and additional support, the program focuses on developing practical job skills, workplace behaviors, independence, and confidence.

Objectives

1. Develop landscaping and grounds-maintenance skills.
2. Learn basic construction and building-maintenance techniques.
3. Safely use hand and power tools and equipment.
4. Practice workplace communication and employability skills.
5. Participate in hands-on projects and work-based learning experiences.
6. Build independence, confidence, and job readiness.

Units of Study

Students will learn through real-world projects and hands-on activities, including but not limited to; planting and maintaining landscapes, lawn and grounds care, use of tools and equipment, basic carpentry, painting, repairs, and general building maintenance. Emphasis is placed on safety, teamwork, responsibility, following directions, and developing skills that can lead to future employment, community-based work experiences, and greater independence.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during a normal school day. To learn more, speak with your high school counselor.

CLASSROOM INFORMATION

- Able to work in groups and individually
- Ability to follow safety protocols
- Small class setting

PROGRAM CONSIDERATIONS

- May require physical exertion
- Outside exposure daily
- May be exposed to loud noise in a shop setting

ADDITIONAL INFORMATION

- Clothing to ensure safety, such as work boots, work pants and outside apparel





Vocational-Individually Paced (VIP) Career & Technical courses are designed to meet the needs of students who require a smaller learning environment and a curriculum pace that meets the needs of the students in grades 10-12. Courses will provide introductory skills in various career and technical areas in preparation for future life and employment skills.

Civil Rights Statement

The Orleans/Niagara Board of Cooperative Educational Services (BOCES) does not discriminate against any employee, student, applicant for employment or candidate for enrollment on the bases of gender, gender identity or expression, race, color, religion or creed, age, national origin, marital status, disability, sexual orientation, military or veteran status, reproductive health decision making, or any other classification that is recognized by law as a protected classification.

The Orleans/Niagara Board of Cooperative Educational Services (BOCES) is an equal opportunity educational system and does not discriminate against any student or candidate for enrollment on the basis of actual or perceived race, creed, color, weight, national origin, ethnic group, religion, religious practice, disability, sexual orientation, marital status, gender, gender identity or expression, sex, or any other classification that is recognized by law as a protected classification. Orleans/Niagara BOCES will take steps to assure that the lack of English language skills will not be a barrier to admission and participation in CTE programs.

Any person wishing to obtain information about the BOCES procedures for grieving alleged §504 Civil Rights violations may obtain information by contacting Timothy Dunham, Executive Director of Human Resources, 4232 Shelby Basin Road, Medina, NY 14103. Telephone number 716-731-6800, extension 3733, e-mail address trdunham@onboces.org.

Any person wishing to contact BOCES Title IX officers may contact Dr. Ronald Barstys, Director of Special Programs, 716-731-6800, extension 3600, e-mail address rbarstys@onboces.org; Dr. Melanie Conley, Executive Director of Business Services, 716-731-6800, extension 2210, e-mail address mconley@onboces.org; Timothy Dunham, Executive Director of Human Resources, 716-731-6800, extension 3733, e-mail address trdunham@onboces.org; Dr. Michael Weyrauch Director of CTE and Adult Education, 716-731-6800, extension 4447, e-mail address mweyrauch@onboces.org

To have documents translated please contact Timothy Dunham, Executive Director of Human Resources, 716-731-6800, extension 3733, e-mail address trdunham@onboces.org.

For grievance procedures please see policy # 6071 on the Orleans/Niagara BOCES website at onboces.org.

To access the Discrimination Complaint Form please see the Orleans/Niagara BOCES website at onboces.org or the following link: https://drive.google.com/file/d/1OQB7P1CjjXWPgd1FmFqnuLyKuU0kN0rY/view

SUMMARY of the Orleans/Niagara Non-Discrimination Statement

The Orleans/Niagara BOCES is an equal opportunity educational institution that prohibits discrimination against employees, students, applicants, and candidates for enrollment based on gender, disability and all other legally protected characteristics. The organization takes appropriate steps to assure that limited English proficiency will not hinder access to Career and Technical Education (CTE) programs. For information regarding Title IX and/or Section 504 Civil Rights procedures, individuals may contact Dr. Michael Weyrauch at 716-731-6800 ext. 4447, mweyrauch@onoboces.org

To view the complete non-discrimination statement on the onboces.org website or use the following QR code

Frequently Asked Questions

Q: Who is eligible to attend a career and technical education program?

A: Minimum requirement for secondary students to enter a secondary day program include enrollment in a component district school and completion of 10th grade. Exceptions to the minimum criteria may be permitted through special arrangements.

Q: I would like to enroll in one of your career and technical education programs. What do I do?

A: To enroll in a career and technical education program high school students can talk to their school counselor. For specific program content students can contact our principals and they will be able to talk over the process with you. You can contact Orleans Center Principal, Mrs. Nicole Goyette (ngoyette@onboces.org) at 716-731-6800, extension: 2230 or Niagara Center Principal Mrs. Liz Mastronatteo (emastromatteo@onboces.org) at 716-731-6800, extension: 4440.

Q: How are your programs different from traditional high school?

A: Hands-on learning is a hallmark of the career and technical school experience. While academics are part of the program, and students learn via traditional lecture, reading and writing projects, the majority of their time is spent applying these skills in practical applications in their career field of study.

Q: How long are the programs?

A: Most career and technical school students attend for a half school day, approximately two and a half hours.

Q: What is a Career and Technical Endorsement?

A: Students enrolled in a school district or BOCES approved career and technical education (CTE) program who successfully complete all requirements earn a technical endorsement to be affixed to their high school diploma.

Student Requirements:

- Completion of a minimum of 22 units of credit, as required for graduation.
- Passing grades on 5 required Regents examinations or approved alternatives.
- Have earned a completion certificate.
- Successful completion of a 2-part technical assessment (written & practical).
- Achieved a 70% or better average on student portfolios.

Q: Will I receive Academic Credits for completing a program?

A: You can only receive Academic Credits if you complete two years of the career and technical education program. Also there are no academic credits for our non-state approved programs, which include VIP Programs and Explore CTE Programs. Allied Health offers college credits.

Q: Are there any costs involved in attending the programs?

A: Tuition, textbooks, and transportation are covered by your home school district. Some programs require the purchase of uniforms, work boots, safety glasses, or personal tools that are paid for by the student.

Notes

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Orleans and Niagara Career and Technical Education Centers

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