

program guide

Oneida-Herkimer-Madison BOCES
Career & Technical Education Center



2015-2016



TABLE OF CONTENTS

2 3	Advertising Design & Multimedia Productions
4 5	Animal Science
6 7	Auto Body Repair
8	Auto Body & Auto Technology Occupations
9	Automotive Technology - NATEF
10 11	Conservation
12 13	Construction Trades
14 15	Cosmetology
16	Criminal Justice
17	Culinary Arts
18 19	Early Childhood Education
20 21	Electricity & HVAC
22 23	Emerging Technologies & Cyber Security
24 25	Food Service Occupations
26	Multi-Occupations
27	New Visions Business Management
28	New Visions Communications
29	New Visions Education
30	New Visions Engineering Technology
31	New Visions Health Professions
32	New Visions Legal Professions
33	New Visions Nanotechnology
34	New Visions Performing Arts
35	New Visions Veterinary Science
36 37	Nurse Assistant
38	Outdoor Power
39	P-TECH
40 41	Welding
42 43	Sophomore Seminar
44	School-to-Career Programs
45	Work Experience Programs
46 47	CTEC Program Credits
48	Clubs & Activities
49	Scholarships & Awards
50 51	CTEC Open House



Message from the Principal

What can the
Career & Technical
Education Center offer you?

Businesses today need trained and skilled employees. Universities require students to be educationally prepared. The need for students who are college and career ready is so great that businesses and educational institutions have taken this message to schools everywhere in order to develop graduates with appropriate work skills and knowledge. CTE students follow career pathways linking high school learning with college degrees, industry recognized certifications and connections between what is learned in the classroom and expectations in the employment field.

In 1948, the Oneida-Herkimer-Madison BOCES began its mission to educate students in various pathways for high school graduation. In 2013, we celebrated 65 years of preparing students to become technology leaders of the future. We have maintained active partnerships with the business community through our Advisory Council and program consultant committees. Our educational staff, area businesses, students and parents work together as a team to provide a meaningful educational experience for all of our students. This career and college readiness preparation includes on the job internship experiences, program instruction aligned to college curricula and college credit integration opportunities for students in traditional programs who meet select criteria.

Every year we conduct a student survey to assess where our students are employed or attending college. In the past three years, nearly 96 percent of graduates have reported successful outcomes including gainful employment in their program field or post-secondary studies at a variety of technical schools, colleges and universities.

In addition to the career and technical programs and integrated academic courses that OHM BOCES offers, we also provide New Visions courses that allow seniors to go on-site at participating businesses to learn about the field. More information about New Visions programs can be found in this publication.

If you are interested in a challenging and hands-on education, we invite you to look through these pages to learn how a career and technical education can be the key to your future.

David Stayton



Career & Technical Education Center

Career and Technical Education Center programs are offered to high school juniors and seniors and focus on preparing students for employment, careers or post-secondary education through the development of 21st century skills. If a student does not wish to enroll in a program for two years, he or she has the option of enrolling in a program for one year.

Students attend one-half day at the Career and Technical Education Center, or internship site, and one-half day at their home schools. Working with state-of-the-art equipment, students apply theory to a wide range of real life work assignments in the Center's shops and laboratories. Positive employment attitudes, job seeking skills and familiarization with related career opportunities are emphasized in addition to college and career readiness.

If you would like more information about Career and Technical Education programs, contact your guidance counselor or the Career and Technical Education Center at 315.793.8666.



Advertising Design & Multimedia Productions

Advertising Design / Multimedia Productions is a two-year course offering an overview of graphic arts fields including advertising, design, illustration, logo and symbol design, computerized graphic design, basic web page design and typography. First-year students learn design principles, advertising and marketing theories, and basic computer operations. Second-year students create independent design projects in areas including audio production, video production, digital photography and web page design. Eligible students in the Advertising Design class may receive three credits of MVCC's Graphic Illustration dual credit upon successful completion of the program and required illustrations.

"We learn to use different programs, how to apply them by working on projects, and how this will help our future career."

Kayla Tabor, Clinton



Animal Science

Students in the Animal Science program study animal behavior, safe handling and restraint, anatomy and physiology, small animal care and management, health and disease, nomenclature and veterinary terminology. The lab setting for the course includes working with dogs and other small animals. Students have hands-on experiences in grooming and visit sites to view first-hand how animal science applies to a variety of careers. The Animal Science program has an articulation agreement with SUNY Cobleskill for three college credits in Small Animal Management.

"I grew up with horses and animals and want to be a vet. This course helps me understand the fundamentals of animal care and grooming."

Jessica Tuttle, Whitesboro



Auto Body Repair

The Auto Body Repair program provides students with an overview of all facets of this field. Topics range from small dent repair to custom painting, and incorporates automotive welding and collision repair. Auto Body Repair students may be eligible to receive three college credits through our articulation agreement with Alfred State.



"I recommend Auto Body if you love being around cars and being creative."

Giovanni Dixon, Proctor



Auto Body & Auto Technology Occupations

This program provides instruction and skills needed to be employed in the automotive industry. Students receive theory instruction as well as hands-on instruction in basic automotive services, including auto body. Students work on vehicles as they learn skills that will transfer to a real job setting.

"We like to work on cars, the class is interesting, and teamwork is a big part of what we do. We will be able to use our knowledge of advanced automotive skills in the work field."

Anthony Campola & Christian Alequin, MSA

Automotive Technology NATEF

Students in this NATEF-certified program learn to diagnose, service and repair many different systems in today's vehicles. Areas of study include electrical, electronic, brake, suspension and steering systems. Students also learn about computerized engine controls, engine performance, emission controls, wheel alignment and how to perform New York state vehicle inspections. Students in the Automotive Technology program may be eligible to obtain between three and six college credits from Alfred State, Fulton Montgomery Community College or SUNY Delhi through articulation agreements.





Conservation

The Conservation program is a blend of classroom instruction and outdoor hands-on learning, with the importance of a favorable work ethic stressed. Students acquire skills in forestry, fish and wildlife management, heavy equipment operation, timber harvesting, chain saw operation and maintenance, tree climbing, map and compass reading, GPS, surveying and more. In our greenhouse, students become skilled in hydroponics, aquaculture and plant propagation. Seniors in Conservation can pay a reduced fee and be eligible to receive three college credits from SUNY Morrisville in their Environmental Science (ENSC 100) course. Additionally, eligible graduates of the program may secure up to six college credits from Bryant & Stratton or SUNY Cobleskill through articulation agreements.



"The class is perfect for a hands-on learner and students who want to be outdoors. Mr. Joslin is a really good teacher."

Austin Furner, Waterville

Construction Trades

The Construction Trades program teaches basic skills in residential construction as students gain experience in foundation work, rough framing, roofing, siding, drywall, solar panel installation and our newly expanded modules of plumbing and masonry. Students learn how to use and maintain trade tools properly and safely and receive instruction in building codes, blueprint reading and the application of trade math. A great emphasis is placed on hands-on learning through various projects on and off campus. Eligible students may receive up to six college credits through articulation agreements with Alfred State or SUNY Delhi.



"You get to learn new things every day. Mr. Waskiewicz really knows his stuff and makes learning fun."

Jake Dombrowski, Notre Dame




Cosmetology

This program is designed to provide students with marketable skills in the field of cosmetology. Once the skills are acquired, students perform services for customers in a salon setting. With further training, experience and, upon completion of the required 1,000 hours, including a summer session and internships, students are eligible to take the NYS Appearance Enhancement license exam. Eligible students in the Cosmetology program may secure up to nine college credits from USC The Business College through articulation agreements.

"I like the program because right after the two years you can get a job."

Arianna Moorehead, Holland Patent

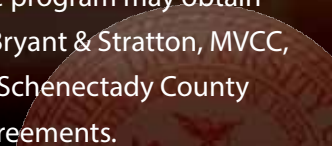


"I recommend the class because if you are planning on going into the police force or a service field it really prepares you."

Dustin Howard, New York Mills

Criminal Justice

The two-year Criminal Justice program covers nearly all facets of public safety. The first year includes topics such as New York state penal, vehicle and traffic laws, criminal procedure law, accident investigation and reconstruction, incident command, firefighting, criminal investigation, police patrol tactics, forensics, ballistics, cyber security, terrorism, firearm safety and more. The second year introduces forensic science including crime scene investigation, anthropology, hair and fiber analysis, soil analysis, blood spatter analysis and practical, hands-on activities. Students in the Criminal Justice program may obtain between three and six college credits from Bryant & Stratton, MVCC, Fulton Montgomery Community College or Schenectady County Community College through articulation agreements.

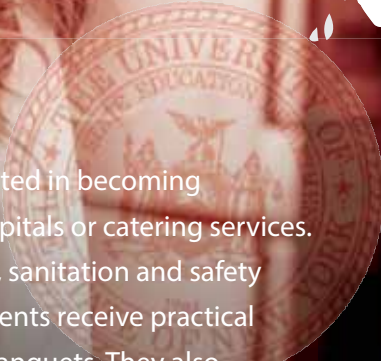


"I chose culinary because I love making food and my mom has a business that I will be going into. I recommend the course because you can make something beautiful out of a few good ingredients."

Alyssa Holmes, Whitesboro

Culinary Arts

This program is designed for students interested in becoming commercial cooks for restaurants, hotels, hospitals or catering services. Cooking, menu planning, management skills, sanitation and safety practices, and table service are covered. Students receive practical experience preparing lunches, dinners and banquets. They also participate in a local internship. The program follows the ProStart curriculum, which is written by the National Restaurant Association. Eligible graduates of the program may secure college credits from institutions including Alfred State, Culinary Institute of America or SUNY Cobleskill through articulation agreements.



Early Childhood Education

First-year Early Childhood Education students operate a laboratory nursery school under the direction of the program's teacher. The on-site nursery school gives students practical experience working with three- and four-year-old children. Second-year students gain practical experience working in two 10-week internships at a local kindergarten classroom, day-care center or special education program. Eligible graduates of the program may secure college credits from Schenectady CCC or SUNY Cobleskill through articulation agreements.


"Early Childhood Education exposes you to opportunities working with kids that you would not be able to do at your home school."

Regan Bishop, Oriskany



Electricity & HVAC

Electricians install, maintain and troubleshoot electrical systems and equipment in homes, offices, institutions and industrial plants. Students learn residential, light commercial and industrial wiring through a variety of hands-on activities and projects. During the second year of the program, students also receive instruction in Heating, Ventilation and Air Conditioning (HVAC). Students in the Electricity & HVAC program may obtain between three and six college credits from SUNY Delhi, Alfred State or Fulton Montgomery Community College through articulation agreements.



"Electricity will help prepare me for my future and future home projects. I plan on going to college to be a linesman."

Jeff Becker, Remsen

Emerging Technologies & Cyber Security

This two-year course teaches computer repair and basic networking fundamentals. During the first year, students will learn hardware and software installation, end user support, trouble shooting, telecommunications protocols and network support. Second-year students will learn advanced networking technologies and gain exposure to the field of information system security including issues faced by homes and businesses, the types of damage they may cause and prudent security measures to counteract them. Second-year students work with materials developed in conjunction with Utica College's Cyber Security program. Students will learn basic terminology involved in cyber security, describe various threats and identify potential technologies to combat these threats. With further training and experience, students completing this program have the opportunity to take certification exams in A+, N+ and Security+. Eligible graduates of the program may secure up to nine college credits from USC The Business College through articulation agreements.

"I have been into computers all of my life and coming here lets me do what I love."

Patrick Wing, Proctor





Food Service Occupations

Food Service is a program allowing students to receive instruction in the food service industry through theory and practical experience in quantity preparation for large groups and short order cooking.



Multi-Occupations

Multi-Occupations is a program offering career exploration and skills development to encourage and challenge students to discover their abilities and interests. Hands-on tasks in several occupational clusters provide real work opportunities that may include shadowing and internship experiences. Classroom instruction stresses the importance of basic academic skills. Clusters focus on employability, independent living, social and safety skills to participate within the home and community.



New Visions (Seniors Only) Business Management

The New Visions Business Management program offers college-bound students the opportunity to explore a variety of business professions at local establishments. Students develop competencies useful in a wide range of careers within the business field. This program also integrates English and social studies into the curriculum.

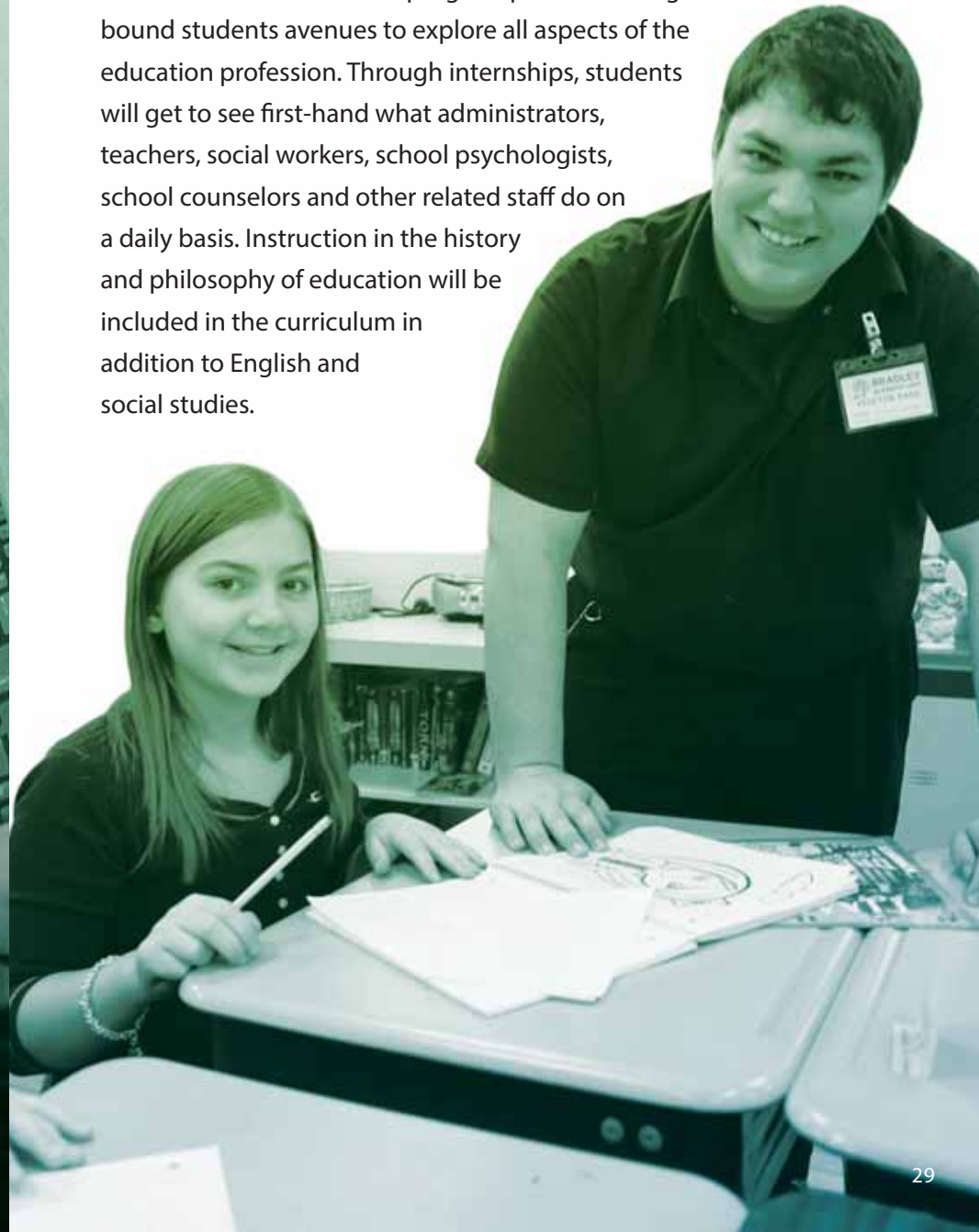


New Visions (Seniors Only) Communications

The New Visions Communications program gives college-bound students the opportunity to work in a variety of communications settings, including public relations, marketing, journalism, television and radio. This program is designed to integrate English and social studies into the curriculum through a variety of learning experiences.

New Visions (Seniors Only) Education

The New Visions Education program provides college-bound students avenues to explore all aspects of the education profession. Through internships, students will get to see first-hand what administrators, teachers, social workers, school psychologists, school counselors and other related staff do on a daily basis. Instruction in the history and philosophy of education will be included in the curriculum in addition to English and social studies.



New Visions (Seniors Only) Engineering Technology

New Visions Engineering Technology is an innovative program that gives college-bound seniors an in-depth look at different areas of engineering as they work with professionals in the field. This program is designed to integrate English and social studies into the curriculum through a variety of learning experiences.



New Visions (Seniors Only) Health Professions

The New Visions Health Professions program is open to seniors who plan to enroll in college to study a health-related field. Students in the program explore a variety of health occupations on site at Faxton-St. Luke's Healthcare, as well as other health facilities. Students develop competencies useful in a wide range of careers within the health field; they also earn credit in English and social studies.





New Visions (Seniors Only) Legal Professions

The New Visions Legal Professions program provides an opportunity to explore a variety of legal professions at offices located in Oneida County. This program is designed to integrate English and social studies into the curriculum, as well as introducing students to law in private and public offices, city courts and family courts.



New Visions (Seniors Only) Nanotechnology

This subfield of electronics relates to the study and manufacture of electronic components that are very small. Students will learn topics including semiconductors, capacitors, inductors, resistors, insulators and conductors. Design engineers in this field may attempt to develop smaller, faster and cheaper devices featuring microelectronic components. Students in the field of nanotechnology may study potential new materials with applications in areas of medicine, electronics and energy production and their environmental and economic impact.



New Visions (Seniors Only) Performing Arts

New Visions Performing Arts is an emerging program designed for seniors interested in topics including art, dance, drama, music and stagecraft. Through internships, students may have the opportunity to investigate performance in front of an audience and/or behind the scenes where artists craft their work. This program is designed to integrate English and social studies into the curriculum through an examination of the history of performance art.



New Visions (Seniors Only) Veterinary Science

This is a one-year program for college-bound seniors and offers an opportunity to explore the various aspects of veterinary science and internships. General areas of instruction include animal behavior, animal handling and restraint, species and breed identification, animal anatomy and physiology, basic lab techniques, animal care, animal welfare, animal health and disease. High School Regents Living Environment (Biology) and Chemistry are highly recommended prerequisites for this course.



Nurse Assistant

This one-year course teaches students basic skills of personal care required for patient comfort through classroom theory and instruction in the work environment, where students spend six weeks (100 clinical hours) gaining valuable experience. Once students complete the class, they are eligible to take the written and performance test offered by the New York State Department of Health to become a Certified Nurse Assistant. Eligible graduates of the program may secure college credits from local institutions including Bryant & Stratton through articulation agreements.

"CNA is a very useful program. You learn a lot about communication skills with peers and in the workforce."

Elizabeth Williams, New Hartford

Outdoor Power & Recreational Equipment Technology

"I picked Outdoor Power because the skills I learn are things I will need to know in everyday life."

Matt Borden, Whitesboro

In the Outdoor Power & Recreational Equipment Technology program, students learn to repair, rebuild and tune up several basic types of engines including snow blowers, lawn mowers, rototillers, farm tractors, construction equipment, motorcycles, jet skis and snowmobiles. Students also learn metal skills, including electric arc, MIG and oxyacetylene welding. Eligible graduates of the program may secure college credits from SUNY Cobleskill through articulation agreements.



Pathways in Technology Early College High School (P-TECH)

Pathways in Technology Early College High School (P-TECH) is a new course offering an integrated high school and college curriculum focusing on science, technology, engineering and mathematics (STEM) while also providing workplace skills including leadership, communication and problem solving. This program will initially enroll freshman in a flexible (four, five, or six-year) program combining academic rigor and career focus with graduates earning a high school diploma and an accredited associate's degree. Students will experience internships with P-TECH business and industry partners and, upon graduation, will be regarded as viable candidates for employment with these partnering agencies. Enrollment for this program will be conducted through an application process as detailed in the P-TECH grant guidelines.

Welding

Welding students learn to construct and repair equipment, machinery, parts and piping by fusing metal parts together. Students follow layouts, blueprints, work orders and verbal directions using oxyacetylene, MIG, or arc welding apparatus. When prepared, students can take a test required for specific welding certifications. Eligible graduates of the program may secure college credits from Alfred State or MVCC through articulation agreements.



"Welding is a very hands-on class and a great way to get to know people and work with them. It is a fun class and a great way to make a living."

Kody Taylor, Sauquoit



Sophomore Seminar

Sophomore Seminar was developed for 10th grade students who would benefit from a hands-on, experiential learning program. The program incorporates concepts of STEM (science, technology, engineering and math) and students will be exposed to a variety of career skills and content. This project-based class incorporates technology, engineering, and problem solving wherein students apply scientific and mathematic principles in topics including bridge design, robotics, rocketry and woodworking. Through this unique learning environment students will make connections between academic achievement and their potential career, develop personal goals and a more positive attitude about their success, improve self-esteem and learn appropriate behaviors, and gain credits toward their high school graduation.



School-to-Career Programs

The School and Business Alliance utilizes several career development strategies to assist students in making successful transitions from school to post-secondary studies to a successful career: career shadowing, business speakers and tours, college tours and summer work opportunities.

The Regional Program for Excellence internships offer highly motivated high school juniors and seniors opportunities to explore their career choices in a work setting with respected professionals. Students complete 75 hours by receiving release time from their classes to meet with mentors for a weekly three-hour block or during summer months.

Tech Prep offers the opportunity for students to take challenging, real-world coursework in high school. By completing a four-unit sequence in technology, business or healthcare, students build the skills needed to be successful in both college and work.

Work Experience Programs

Internships

During school hours, a student may be assigned to observe and participate in a variety of activities related to his/her curriculum at an off-campus site. Students do not receive wages and may not replace a paid employee.

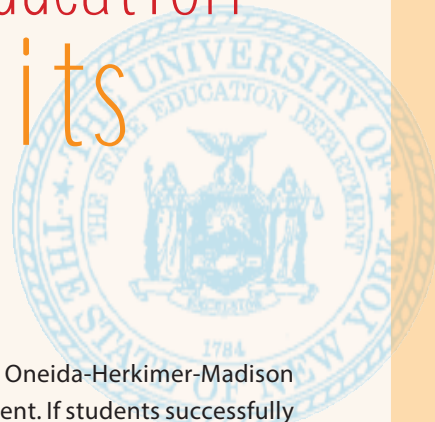
New Visions Internships

Students in the New Visions program spend four days a week in workplace internships in the business management, communications, education, engineering technology, health, legal, nanotechnology, performing arts and veterinary science fields. One day each week is spent in the classroom working on related curriculum projects, listening to guest speakers, or taking virtual field trips.

Direct Job Placement

The Career and Technical Education Center works closely with area businesses to identify students who are prepared for direct job placement, for either full- or part-time work, or summer employment.

Career & Technical Education Program Credits



Regents Diploma with a Technical Endorsement

Most Career and Technical Education programs at the Oneida-Herkimer-Madison BOCES are approved by the State Education Department. If students successfully complete the CTE program, complete 22 units of high school credits, pass the five required Regents examinations, and pass a technical assessment (which is part of the CTE program), students are eligible to receive the Regents diploma with a technical endorsement.

High School Credit

For each successfully completed year, you can receive four credits. For a one-year program, you can receive four Career and Technical Education (CTE) credits or three CTE credits and, with home school approval, one credit of English 12. In the one-year Nurse Assistant program, students can also receive a credit in science. For a two-year program, you can receive eight credits. These can be eight CTE credits or (with home school approval) five, six, or seven CTE credits and up to three academic credits including English 12, math, and science. See your high school counselor for more information.



College Credit Integration

All of the New Visions programs offer three college credits from MVCC for English 101. This is at no cost to students. Seniors in Conservation can pay a reduced fee and be eligible to receive three college credits from SUNY Morrisville in their Environmental Science (ENSC 100) course. Also, students in traditional programs may have the opportunity to obtain six college credits in their junior year (Introduction to Business and Principles of Marketing) and an additional six credits (Computer Applications and Concepts I and Personal Finance) in their senior year.

Articulation

Through articulation agreements between a post-secondary institution and the Oneida-Herkimer-Madison BOCES, students may gain advanced standing in certain programs and, for others, actual credit for a college-level course. The terms of the articulation generally include the following: students must have completed the BOCES course within the past school year, maintained a B average or better, demonstrated excellent attendance and received recommendation from the BOCES instructor. For more specific information, contact the BOCES guidance department at 793.8618 or 793.8660. All Career and Technical Education programs have established articulation agreements with local colleges and trade schools.

Established articulation agreements exist at:

Baran Institute of Technology · Bryant & Stratton · Fulton-Montgomery Community College · Herkimer County Community College · Mohawk Valley Community College · Nashville Auto-Diesel College · Paul Smith's College · Schenectady County Community College · SUNY - Canton · SUNY - Cobleskill · SUNY - Delhi · SUNY - Morrisville · The Art Institute of Pittsburgh · The Culinary Institute of America · Utica School of Commerce

Clubs & Activities

Skills USA

Skills USA offers leadership and citizenship development to complement the CTE student's skill training. Members may also participate in local, state and national Skills USA competitions.

FFA Conservation Club

The National FFA organization is the oldest vocational organization in the United States and is recognized by the federal government as an important part of vocational education. FFA promotes leadership development through activities that benefit students and the community. Students gain valuable leadership experience toward success in the workforce. Membership is open to any BOCES CTE student.

Advisory Council Representatives

At the Career and Technical Education Center your opinions count. To make sure student perspectives are heard and considered when important decisions are made, two students are selected each year as members of the Career and Technical Education Advisory Council. These students attend all council meetings and actively take part in all discussions.

Honor Society

Each May, outstanding students are inducted into the Career and Technical Honor Society. They are students who have shown excellent academic achievement in their Career and Technical program, good attendance, active participation in organizations, and a serious interest in a vocational or technical field. All students, including adult students, are eligible if they meet the requirements.

Scholarships & Awards

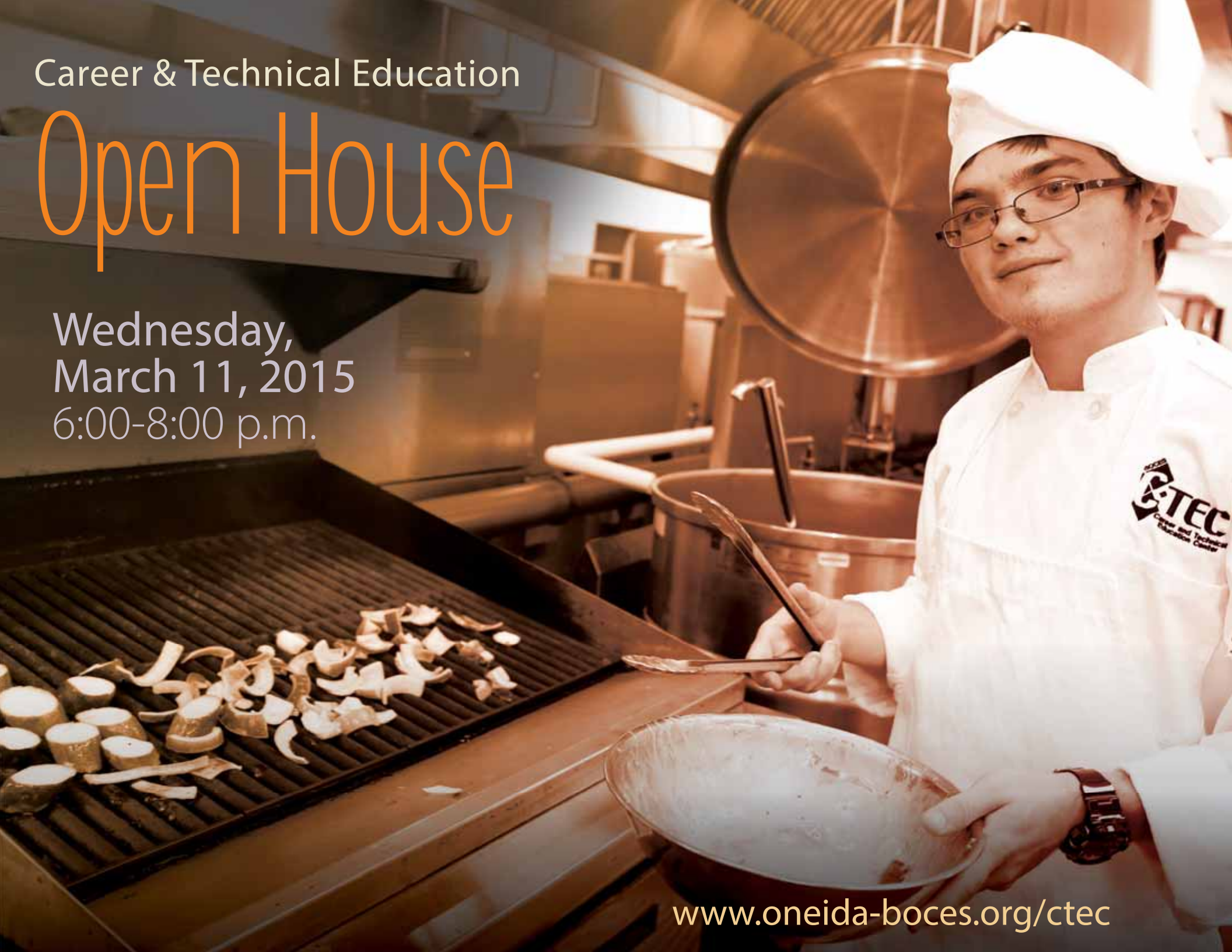
OHM BOCES Career and Technical Education students are eligible to compete for several scholarship and awards thanks to the generous contributions of the following sponsors:

Airgas East	Leatherstocking Defensive Driving
American Beverage	Looseleaf Law
American Legion Utica Post #229	Cris Lewis
Aramark Corporation	MVCC Foundation
Babe's	McQuade & Bannigan, Inc.
Bon Appetit	Mohawk Valley Counselors' Association
BPO Elks Utica Lodge 33	Mohawk Valley Network
David Beck Auto Body	Mohawk Valley School Resource
Burmax Co., Inc.	Officer Coalition
CTEC Honor Society	Murnane Building Contractors
Cameo Beauty Supply	NAPA Auto Supply/Volvo Auto Supply
Carbone Automotive Group	New York State Woodsmen's Field Days
Carlo Masi	Ninety-Nine Restaurant
Sam Cavo Award	Northern Safety
Cazenovia Equipment Co.	OHM BOCES Teachers' Association
Celia Construction	OPI
Centrex Clinical Labs	O'Connell Electric
J. S. Chambrone Award	Oneida County Law Enforcement Coalition
Clinton Tractor	Price Chopper Supermarkets
The Computer Room	Sally's Beauty Supply
Michael Duniec Memorial	Skills USA
Duffy's Equipment	Slocum Dickson Foundation
ESI	Stiefvater Distributors, Inc.
Faxton - St. Luke's Medical Staff	Symeon's
Faxton - St. Luke's Volunteers	SYSCO
First Source Federal Credit Union	UNO Chicago Grill
40 & 8	Upstate Office Equipment
The Fountainhead Group, Inc.	Utica School of Commerce Advisory Board
Friends of the New Hartford Public Library	Utica School of Commerce
Gilroy, Kernan & Gilroy, Inc.	Utica Valley Electric
Donna Grippe	Utica Zoo
Hart's Hill Inn	Whitesboro Fire Department
Heritage Health Care Center	Whitesboro Frame & Body, Inc.
Home Builders Assn. of Mohawk Valley	Whitestown Assn. of American Veterans
Hummel's Office Plus	Whitestown Assn. of American
IBEW/NECA	Veterans Auxiliary
Joseph Flihan Co.	Whitestown Sons of the American Legion
King Refrigeration and Air Co.	Wood Creek Reptiles
Kiwanis Club of New Hartford	Zebb's Deluxe Grill & Bar
Koenig & Selzer Asset Management Group	
L&A Builders Trade	

Career & Technical Education

Open House

Wednesday,
March 11, 2015
6:00-8:00 p.m.



www.oneida-boces.org/ctec

Serving the following component school districts:

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Remsen • Sauquoit • Utica • Waterville • Westmoreland • Whitesboro

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