

**EASTERN LONG ISLAND
ACADEMY OF APPLIED TECHNOLOGY**



Find Your Future Here



2024-25

COURSE OFFERINGS CATALOG



“I am CTE ... ask me why I do this.”



Quote from program graduate –
“The most helpful step in my career and education.”

Mark Weinberg, DMD
Owner, Dr. Mark Weinberg, Orthodontist

Quote from program graduate –
“A wonderful opportunity to help yourself get a trade.”



Carl Gabrielsen
Owner, Gabrielsen Farms LLC



Quote from program graduate –
“This is a great opportunity for anyone that is interested in some type of forever career.”

Janette Velazquez
Hospital Manager, East Islip Animal Hospital

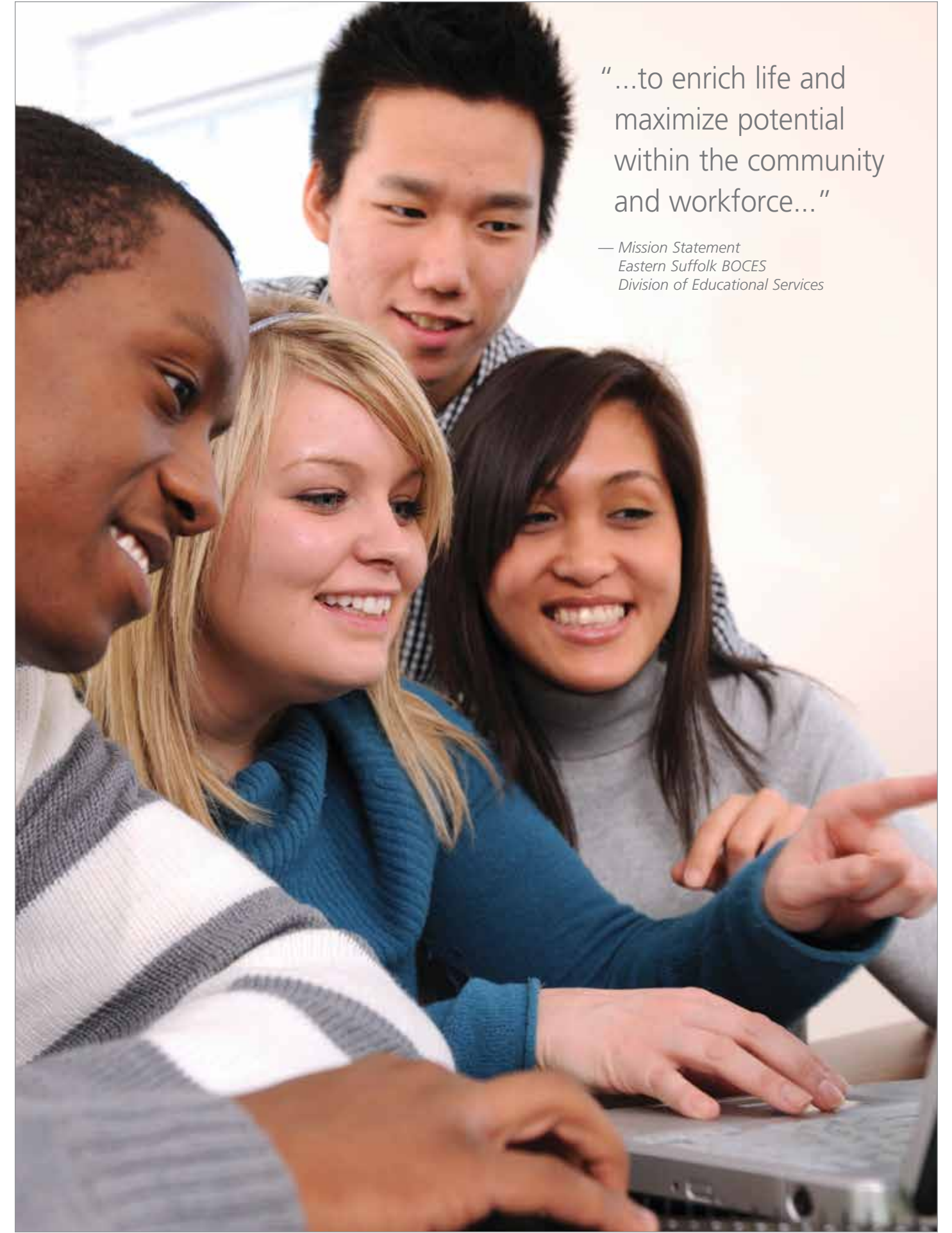


Course Offerings Catalog 2024-25

Career and College Pathways for High School Students

Follow us on Social Media





“...to enrich life and
maximize potential
within the community
and workforce...”

— *Mission Statement*
Eastern Suffolk BOCES
Division of Educational Services

Dear High School Student,

Welcome to the Eastern Long Island Academy of Applied Technology! Inside these pages, you will find dozens of careers that might spark your interest. If you find one that excites you, talk to your parents, your guidance counselor, friends and family about your thoughts. You will be surprised how many people you know got their start in a program like this.

The benefits of a technical education are many. First, a new school gives you an opportunity to re-invent yourself. Second, the people in your class are interested in the same thing you are, so you already have things in common with your classmates! Third, our teachers are masters and experts in their field. You will learn from the best. Finally, we are not successful unless you are, so we will do all we can to support you. Doesn't the Academy sound great?

Our job is to create opportunities for all students by providing them with the technical and academic skills needed to prepare for future employment and a successful path to college or other post-secondary programs. Inside these course pages, you'll see all that we have to offer. Come join us!

We continue to focus on local industries with high workforce demands and stressing the transferable skills like problem solving and technical knowledge found in many of our technical programs. We are also focused on micro credentials and certifications to ensure students have earning power when they are ready to work. Which of the following programs could lead to a job in off-shore wind?

- A. Automotive Technology
- B. Welding and Fabrication
- C. Trade Electric and Alternative Energy
- D. Autobody
- E. HVAC

The answer is, all of them...and many more!

In addition to preparing you to enter the workforce, we prepare students for college. Whether you aspire to work right out of high school or enter a post-secondary institution, the Academy will provide you with the tools for both college and career readiness.

Please contact us should you have any questions while reviewing this catalog or our website. We welcome ideas you may have and appreciate your assistance in providing students, parents and district personnel with the most current information available on the Academy's programs. Happy reading!

Best wishes,



Leah Arnold
Director

Eastern Long Island Academy of Applied Technology

2024-25 Course Offerings

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Edward J. Milliken Technical Center
Harry B. Ward Technical Center

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Career and Technical Education Program Completer

When a student completes a program of study in any of the Eastern Long Island Academy of Applied Technology programs, recommendations are made to the home school district to grant an endorsement on the student's high school diploma. The district then awards endorsements based on that recommendation. Through rigorous coursework, articulations, and real-world experiences, students completing a program at the Eastern Long Island Academy of Applied Technology have the advantage of graduating from high school prepared for both college and the workplace. CTE students:



- Possess knowledge and can apply purposeful and specific technical skills, problem-solving, critical thinking, and are proficient in the use of innovative tools, resources and systems.
- Demonstrate achievement of specific technical skills as reflected in his/her Employability Profile Report.
- Have earned college credits, giving them an extra advantage when entering higher education.
- Experienced internships, pre-apprenticeships, and work-based learning opportunities.
- Engaged in local and national clubs, industry-specific organizations.
- Developed interpersonal and leadership skills that enhance academic, personal, and career development.
- Earned industry-recognized certifications and stackable credentials preparing them for entry-level positions in the workforce.
- Have knowledge of, and competency in, interacting with people of diverse backgrounds.
- Have competency in the use of technology that is aligned with industry standards.

GENERAL STATEMENT ON ADMISSIONS

Academy courses are offered as part of Career and Technical Education for secondary-level students. These courses can lead to entry-level employment or post-secondary education.

All students have the right of accessibility to programs of instruction available at The Academy and Special Career Education Centers within the Supervisory District. Eleventh and twelfth grade students may be eligible for admission to The Academy pending the outcome of the admissions screening process.

ACADEMY STUDENT REGISTRATION PROCEDURES

The registration process begins with the completion and submission of an Intake Application Form.

1. The Intake Application Form must be completed and signed by the Student, Parent/Guardian, and School Nurse. Administration will receive rosters for signature in late August for final approval. All Intake Application Forms should be completed neatly in ink. The current grade level of the student should be used on the application.
2. The Intake Application Form must be accompanied by the student's high school transcript, attendance summary (as of the date of the application) and a summary of discipline. If a student is classified by his/her district CSE, the completed Intake Application Form, along with the student's high school transcript must also be accompanied by the student's IEP, psychological report and vocational assessment.



Applications should be sent with accompanying information to:

Eastern Long Island Academy of Applied Technology
Admissions Department
Instructional Support Center @ Sequoya
750 Waverly Avenue
Holtsville, New York 11742

FAILURE TO SUBMIT REQUESTED DOCUMENTATION WILL RESULT IN A DELAY IN THE REVIEW COMMITTEE'S DECISION-MAKING PROCESS.

3. All applications will go through an Admissions Review process to determine appropriate student placement for each application received. The home school district will receive an enrollment confirmation or a second placement option from The Academy. The Academy Admissions Review Committee will be comprised of both Academy Administrators and Guidance Staff.
4. Students attending parochial or private schools need to have their home school district approval on the Intake Application Form as stated in #1 above. Home schooled students should contact their home school district for further information. Students receiving bilingual education services in their home school district will be evaluated by the Admissions Review Committee on a case-by-case basis.
5. Adult residents of the supervisory district who have graduated high school or are 18 years or older may enroll in a secondary program. An Intake Application Form including a recent High School Transcript must be submitted. Applications must be returned to The Academy Admissions office. Adult students without a recent transcript may be required to take a reading and math assessment to determine appropriate placement in the program prior to admission into any Academy course.
6. If a parent or District would like to appeal the determination made by the Academy Admissions Review Committee, the parent and/or District may request a meeting with the program's Principal to review the Committee's findings.

For further information, please contact one of The Academy Guidance offices:

Gary D. Bixhorn Technical Center (631) 286-6516
Edward J. Milliken Technical Center (631) 244-5815
Harry B. Ward Technical Center (631) 208-2038

COURSE CREDIT

It is recommended that a student who successfully completes one (1) year of any program be awarded five (5) credits, and students be awarded four (4) credits upon successful completion of a second year in a program of study, for a total of nine (9) credits, regardless of whether the second year is included in an approved CTE program of study or is an optional extension year. All Academy courses are NYSED-approved with the required .5 credit of Career and Financial Management (CFM) integrated within the course content. The districts' Superintendent or designee will determine how to distribute credits and how to indicate earned credits on student transcripts. For instance, a district may distribute all earned credits as CTE credits; a district may show the .5 CFM credit on the transcript and distribute the remaining credits to CTE; a district may distribute credits to the academic content area(s) for which a program is approved **in the year the student completes the approved program of study** (see table on page 4) and distribute the remaining credits to CTE; or any combination of scenarios, provided they align with the individual program's NYSED approval and the 5 credit/4 credit totals for year 1 and year 2 of study, respectively. Students who successfully complete a single semester (two quarterly marking periods) may be awarded two (2) units of elective credit at a district's discretion.



TECHNICAL ENDORSEMENT

- Completion of all high school course graduation requirements
- Successful completion of Career and Financial Management
- Completion of all required Regents examinations
- Completion of The Academy program
- Pass the State-approved Technical Assessment for the program

STUDENT ADVANTAGES FOR COMPLETING A PROGRAM AT THE ACADEMY

- Opportunity to study and succeed in a challenging program, which meets both academic and current business/industry standards
- Opportunity to study within contextualized settings that relate to areas of personal interest
- Earning a Career and Technical endorsement increases the value of the high school diploma
- Documentation of successful work-based experiences through the work-skills employability profile
- Opportunity to earn certifications pertaining to The Academy program

INDUSTRY CERTIFICATIONS

In order for our students to be career ready, many of our programs offer industry-related certification that will help a student obtain employment and advance standing in post-secondary institutions. There may be additional fees required. Please see teachers for additional details.

Every Eastern Long Island Academy of Applied Technology program is a NYSED-approved Career & Technical Education (CTE) Program. Among other benefits, this allows credits earned to be awarded as CTE (elective) credits **or** to be distributed to other graduation requirement areas, per NYSED's approval of the program. The following chart includes possible credit distribution by program.

Programs are listed with the corresponding enrollment year in which a student can apply earned credits to areas other than CTE. Those with "Year 1" next to the program name are approved as a one-year program and offer an optional second year, when students can earn only elective credits; those with "Year 2" are approved as two-year programs, and credits earned during the first year can only be applied to elective requirements; those with no year indicated are offered for one year only.

All Programs offer the ability to apply .5 credit to Career and Financial Management (CFM). Any "or" or "and/or" pertain to the ELA, Math and Science columns only.

Eastern Long Island Academy Of Applied Technology Credit Status Chart	Possible Credit Distribution				
	ELA	MATH	SCIENCE	Career and Financial Management .5 Credit	Other
Animal Science – Year 1 (1 year = 3.5 academic credits)	X	X	X	X	●
Art, Design and Visual Communications – Year 1 (1 year = 2.5 academic credits)	X	●	●	X	Art (1 credit)
Audio Production – Year 1 (1 year = 2.5 academic credits)	X	●	X	X	●
Auto Body Repair and Car Customizing – Year 2 (2 years = 3.5 academic credits)	X	X	X	X	●
Automotive Technology – Year 2 (2 years = 3.5 academic credits)	X	X	X	X	●
Aviation/Professional Pilot Training – Year 2 (2 years = 3.5 academic credits)	X	X	X	X	●
Barbering (1 year = 2.5 academic credits)	X	●	X	X	●
Carpentry/Residential Construction and Home Improvement – Year 2 (2 years = 2.5 academic credits)	X	X	●	X	●
Certified Personal Trainer – Year 1 (1 year = 3.5 academic credits)	X	X	X	X	●
Clinical Medical Assisting (1 year = 2 academic credits)	X or	X or	X	X	Health (.5 credit)
Computer Science and Application Development (1 year = 2.5 academic credits)	X	X	●	X	●
Computer Repair and Networking – Year 1 (1 year = 1.5 academic credit)	X	●	●	X	●
Cosmetology – Year 2 (2 years = 2.5 academic credits)	X	●	X	X	●

Eastern Long Island Academy Of Applied Technology Credit Status Chart	Possible Credit Distribution				
PROGRAM	ELA	MATH	SCIENCE	Career and Financial Management .5 Credit	Other
Culinary Arts/Restaurant Operations Management – Year 2 (2 years = 3.5 academic credits)	X	X	X	X	●
Dental Chairside Assisting (1 year = 2 academic credits)	X or	●	X	X	Health (.5 credit)
Early Childhood Education – Year 1 (1 year = 1.5 academic credit)	X	●	●	X	●
Electrical Trade and Alternative Energy – Year 2 (2 years = 3.5 academic credits)	X	X	X	X	●
Emergency Medical Technician	TBD				
Fashion Merchandising and Design – Year 1 (1 year = 3.5 academic credits)	X	X	●	X	Art (1 credit)
Heating, Ventilation and Air Conditioning – Year 1 (1 year = 3.5 academic credits)	X	X	X	X	●
Law Enforcement – Year 1 (1 year = 3 academic credits)	X	●	X	X	Gov't. (.5 credit)
Marine/Motorsports Technology – Year 2 (2 years = 3.5 academic credits)	X	X	X	X	●
Nurse Assisting (1 year = 2 academic credits)	X or	X or	X	X	Health (.5 credit)
Physical Therapy Aide (1 year = 3 academic credits)	X	●	X	X	Health (.5 credit)
Plumbing – Year 1 (1 year = 3.5 academic credits)	X	X	X	X	●
Practical Nursing (1 year = 3 academic credits)	X	●	X	X	Health (.5 credit)
Professional Photography and Digital Imaging – Year 1 (1 year = 2.5 academic credits)	X	●	●	X	Art (1 credit)
Television, Video and Digital Film Production – Year 1 (1 year = 1.5 academic credit)	X	●	●	X	●
Welding/Metal Fabrication – Year 1 (1 year = 3.5 academic credit)	X	X	X	X	●

REPORTS TO DISTRICTS

District Rosters

Rosters are issued several times during the school year to District Contact Personnel to permit component districts and The Academy to reconcile enrollment rosters. Prior to the closing of school in June, the District Roster for the ensuing school year is sent to District Contact Personnel from The Academy's Admissions Office.

Daily/Weekly Attendance Reports

Designated personnel at each district receive weekly copies of our attendance reports. The report contains: daily absences, building assignment, current status (add, withdrawn) and cumulative absence record.

Quarterly Grade Report

These are prepared for each student and made available via the Parent Portal. A comprehensive report listing student grade information is sent to each District.

Cumulative Transcript

Upon District request, a cumulative transcript (unofficial) will be issued for each student at the conclusion of the school year.

Employability Profile

This is prepared and issued along with the Certificate of Completion to each student who successfully completes program requirements.

DISTRICT CONTACT MEETINGS

All District Contact Personnel for secondary programs are invited to meet three times a year with Academy staff to learn about new program offerings, changes in policies and to discuss common concerns. In addition, each fall, a **New Counselors' Workshop** is offered to familiarize first-time counselors with the The Academy's policies and procedures.

SCHOOL ORGANIZATIONS

SkillsUSA

SkillsUSA is a national student organization designed to provide opportunities to develop excellence in skills and leadership. SkillsUSA offers co-curricular activities to enhance the training and education experiences of students at regional, state, national and international competitions.

National Technical Honor Society (NTHS)

Each Technical Center sponsors a chapter of the NTHS. Students who exhibit outstanding academic excellence (90% or above), outstanding attendance (no more than 6 days absent) and good citizenship within the chosen Academy program qualify for possible nomination.





ADVANCED COLLEGE STANDING AGREEMENTS EASTERN LONG ISLAND ACADEMY OF APPLIED TECHNOLOGY

The following colleges offer college credit or waivers for students successfully completing any of the following Academy programs and who meet the criteria required by each college. Please contact Academy guidance counselors for the most recent listing of Advanced Standing Agreements.

ANIMAL SCIENCE

- Five Towns College
- Harcum College
- Morrisville State College*
- SUNY Canton
- SUNY Cobleskill
- SUNY Delhi
- SUNY Jefferson Community College



ART, DESIGN AND VISUAL COMMUNICATIONS

- Fashion Institute of Design and Merchandising (FIDM)
- Five Towns College
- Mohawk Valley Community College
- Sullivan County Community College
- SUNY Canton
- SUNY Cobleskill



AUDIO PRODUCTION

- Five Towns College
- SUNY Buffalo State*



AUTO BODY REPAIR AND CAR CUSTOMIZING

- Alfred State College
- Lincoln Technical Institute
- New England Institute of Technology
- New York Automotive and Diesel Institute
- SUNY Morrisville State College



AUTOMOTIVE TECHNOLOGY

- Alfred State College
- Lincoln Technical Institute
- New England Institute of Technology
- New York Automobile and Diesel Institute
- Ohio Technical College
- SUNY Canton
- SUNY Delhi
- SUNY Suffolk*
- University of Northwestern Ohio



AVIATION/PROFESSIONAL PILOT TRAINING

- Embry-Riddle Aeronautical University
- Vaughn College of Aeronautics
- SUNY Farmingdale*



BARBERING

- Five Towns College
- SUNY Cobleskill

CARPENTRY/RESIDENTIAL CONSTRUCTION AND HOME IMPROVEMENT

- Alfred State College
- New England Institute of Technology
- Northeast Regional Council of Carpenters Apprenticeship Program
- SUNY Delhi



CERTIFIED PERSONAL TRAINER

- Monroe College
- SUNY Buffalo State*
- SUNY Canton
- SUNY Suffolk*



* Dual Enrollment

CLINICAL MEDICAL ASSISTING

- Five Towns College
- Monroe College
- New England Institute of Technology



COMPUTER SCIENCE AND APPLICATION DEVELOPMENT

- Five Towns College
- Monroe College
- New England Institute of Technology
- SUNY Buffalo State*
- SUNY Morrisville
- SUNY Suffolk*



COMPUTER REPAIR AND NETWORKING

- Island Drafting and Technical Institute
- Monroe College
- New England Institute of Technology
- SUNY Canton
- SUNY Cobleskill



COSMETOLOGY

- Five Towns College
- New England Institute of Technology



CULINARY ARTS/RESTAURANT OPERATIONS MANAGEMENT

- Alfred State College
- Culinary Institute of America
- Five Towns College
- Monroe College
- New England Culinary Institute
- Sullivan County Community College
- SUNY Cobleskill
- SUNY Delhi
- SUNY Suffolk*



DENTAL CHAIRSIDE ASSISTING

- Plaza College
- University of Bridgeport/Goodwin University*



EARLY CHILDHOOD EDUCATION

- Herkimer County Community College
- Monroe College
- SUNY Canton
- SUNY Cobleskill



ELECTRICAL TRADE AND ALTERNATIVE ENERGY

- Electrical Training Center, Inc.
- Lincoln Technical Institute
- New England Institute of Technology
- SUNY Delhi



EMERGENCY MEDICAL TECHNICIAN

- (TBD)



FASHION MERCHANDISING AND DESIGN

- Buffalo State University*
- Fashion Institute of Design and Merchandising (FIDM)
- Five Towns College
- Laboratory Institute of Merchandising (LIM)



* Dual Enrollment

HEATING, VENTILATION AND AIR CONDITIONING (HVAC)

- Electrical Training Center, Inc.
- Lincoln Technical Institute
- New England Institute of Technology
- SUNY Canton
- SUNY Delhi
- SUNY Suffolk*
- University of Northwestern Ohio



LAW ENFORCEMENT

- Herkimer County Community College
- Monroe College
- New England Institute of Technology
- Schenectady County Community College
- SUNY Canton



MARINE/MOTORSPORTS TECHNOLOGY

- Alfred State College
- Kingsborough Community College
- New England Institute of Technology
- Universal Technical Institute

NURSE ASSISTING

- Monroe College

PHYSICAL THERAPY AIDE

- Five Towns College
- New England Institute of Technology



PLUMBING

- Alfred State College
- Lincoln Technical Institute
- New England Institute of Technology
- SUNY Canton
- SUNY Delhi



PRACTICAL NURSING

- Adelphi University
- Eastern Suffolk School of Practical Nursing
- Helene Fuld College of Nursing
- Nassau Community College



PROFESSIONAL PHOTOGRAPHY AND DIGITAL IMAGING

- Five Towns College
- Mohawk Valley Community College
- SUNY Buffalo State*



TELEVISION, VIDEO AND DIGITAL FILM PRODUCTION

- Five Towns College
- New England Institute of Technology
- SUNY Buffalo State*
- SUNY Cobleskill
- SUNY Suffolk*



WELDING/METAL FABRICATION

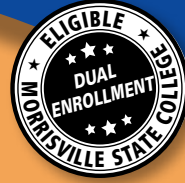
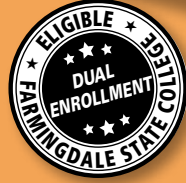
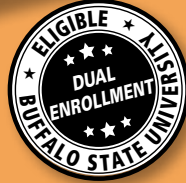
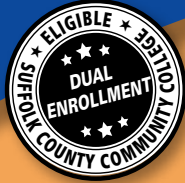
- Alfred State College
- Five Towns College
- Lincoln Technical Institute
- Mohawk Valley Community College
- SUNY Canton
- SUNY Cobleskill
- SUNY Delhi



* Dual Enrollment

Dual Enrollment and Early College Programs

Eastern Long Island Academy of Applied Technology



A Guide for Students and Parents



About the Dual Enrollment Program

The **Eastern Long Island Academy of Applied Technology** offers high school students the opportunity to earn college credit while attending select CTE programs.

Through Dual Enrollment Programs, courses are taught at the Academy Technical Center by our college-approved teachers. These classes have the same curriculum and requirements as those offered on the college campus. Students who successfully complete the class earn credits that count toward high school graduation as well as college credit for the course. These college credits can be applied at the college or transferred to another college or university.*

Advantages of Dual Enrollment

- Students who participate in a Dual Enrollment Program are more likely to graduate from high school, enroll in college, earn higher grade-point averages and complete college degrees.
- Dual Enrollment courses bear the same quality and quantity of credits as courses offered on campus but at reduced of tuition.
- Dual Enrollment students receive grades and feedback throughout the course, thus eliminating high-stakes, end-of-the-year testing.
- Dual Enrollment courses taken in high school may fulfill college degree requirements, serve as electives, or fulfill prerequisite requirements. This may allow students to graduate earlier or earn credits toward additional concentrations, minors or majors.
- Dual Enrollment courses show colleges that you are a motivated student who has pursued challenging opportunities.

Which Academy courses are offered for Dual Enrollment?

As of the Fall of 2023, we have Dual Enrollment offerings for the following courses:

Academy Course	College	# of Credits Offered
Animal Science	Morrisville State College	3 credits
Audio Production	SUNY Buffalo State University	3 credits
Auto Tech	SUNY Suffolk County Community College	3 credits
Aviation/Professional Pilot Training	SUNY Farmingdale State College	up to 6 credits
Certified Personal Trainer	SUNY Suffolk County Community College	3 credits
Computer Science & Application Development	SUNY Farmingdale State College SUNY Buffalo State University	up to 7 credits 3 credits
Culinary Arts	SUNY Suffolk County Community College	3 credits

Dental Chairside Assisting	University of Bridgeport	3 credits
	Goodwin University	3 credits

Fashion Merchandising and Design	SUNY Buffalo State University	up to 6 credits
HVAC	SUNY Suffolk County Community College	3 credit
Professional Photography	SUNY Buffalo State University	3 credits
Television Production	SUNY Buffalo State University SUNY Suffolk County Community College	3 credits 3 credits

Additional courses may be added throughout the school year. Please check with your Academy School Counselor or teacher for any additional updates.

What is the cost of taking a course through Dual Enrollment?

The cost is determined by each college offering a dual enrollment opportunity. Typically, costs are approximately a third of the regular tuition rate. As an example, students enrolled in Suffolk County Community College's Dual Enrollment program pay \$61 per credit hour/\$183 per 3 credit course (as of the 2023-24 School Year), and the posted tuition for Suffolk County residents taking courses directly at the college is \$235 per credit.

When can I register?

Please see your Academy School Counselor for registration deadlines.

Grades and Course Information

The college final grade will be calculated according to the standard set by the college, and the high school grade will be calculated according to the high school standard. The grading standard for each course is outlined on a Course Information Sheet (your Academy teacher can provide one to you). Some Dual Enrollment courses require an additional project or exam and / or may not accept extra credit and late work. In cases such as these, your final Academy grade might be different than your final college grade.

At the end of the course, you will receive a grade report from the college at which you are enrolled. This is the grade that will be part of your official college transcript.

**TRANSFER STATEMENT: While most colleges accept college credits when a grade of C or higher is earned, we cannot guarantee that all credits will be accepted because each college sets its own transfer policy. If you are planning to attend a college other than the college affiliated with our CTE program, we recommend you check the transfer policy of that college before enrolling in our courses.*

Questions? Please see your Academy School Counselor for additional details.





CAREER AND TECHNICAL EDUCATION ADMINISTRATIVE PERSONNEL 2024-25

David Wicks, District Superintendent

Vacant, Chief Operating Officer

Claudy Damus-Makelele, Associate Superintendent for Educational Services

Leah Arnold, Director for Career, Technical and Adult Education

Barbara Egloff, Divisional Administrator for Career, Technical and Adult Education

Robert Van Brunt, Program Administrator for Career, Technical and Adult Education

Emily Puccio, Program Administrator for Career, Technical and Adult Education

Michael Viviano, Administrative Coordinator for In-District Career and Technical Education

GARY D. BIXHORN TECHNICAL CENTER / 350 Martha Avenue, Bellport, NY 11713

Nicole Zergebel, Principal

Chris D'Ambrosio, Assistant Principal

EDWARD J. MILLIKEN TECHNICAL CENTER / 375 Locust Avenue, Oakdale, NY 11769

Chanelle Cox, Ed.D, Principal

Richard Romito, Assistant Principal

HARRY B. WARD TECHNICAL CENTER / 970 North Griffing Avenue, Riverhead, NY 11901

Marie Davis, Principal

Kevin Bernier, Assistant Principal



EASTERN LONG ISLAND ACADEMY OF APPLIED TECHNOLOGY PROGRAM DESCRIPTION

Academy programs are conducted at the Gary D. Bixhorn Technical Center, Edward J. Milliken Technical Center and Harry B. Ward Technical Center. Many course offerings can be taken as one and/or two-year programs.

CALENDAR

The District Superintendent's recommended school calendar will be followed. The secondary class schedules for the three centers are as follows:

- **Gary D. Bixhorn Technical Center, Edward J. Milliken Technical Center, and Harry B. Ward Technical Center**
The morning session will begin at 7:45 a.m. and end at 10:15 a.m. (2 hours 30 minutes of instruction)
The afternoon session will begin at 12:00 noon and end at 2:30 p.m. (2 hours 30 minutes of instruction)

POLICY ON ATTENDANCE

1. Students will be advised of the attendance policies as stated in the student handbook.
2. Parent/guardian will be contacted regarding excessive absences and component school districts will be provided a copy of all written notices to parents regarding excessive absences.
3. Component school districts will be provided with a weekly attendance report by Admissions until the last Friday in October. After October, these reports will be provided monthly.



CERTIFICATE OF RECOGNITION

In order to receive a Certificate of Recognition, students are required to attend a minimum of 90% of scheduled instructional days identified in the current Academy school calendar and receive a final grade of 65% or above (70% or above for health related programs).

The table below indicates the criteria for students to qualify for Certificates of Mastery and High Honors:

<u>Final Average Grade</u>	<u>Attendance Rate</u>	<u>Certificate</u>
85-89	90%	Mastery
95+	96%	High Honors

ACADEMY GRADE REPORTING

The Technical Centers use a numerical grading system. Students should achieve a minimum passing grade of 65% to be recommended for credit and honor cord.

Students may earn certificates as indicated below:

<u>Numeric Grade</u>	<u>Quality Point</u>	<u>Alpha Equivalent</u>
100-97	4.00	A+
96-93	4.00	A
92-90	3.75	A-
89-87	3.50	B+
86-83	3.00	B
82-80	2.75	B-
79-77	2.50	C+
76-73	2.00	C
72-70	1.75	C-
69-67	1.50	D+
66-65	1.00	D
Below 65	0.00	F

Other Grades

LE (Late Entry):

Any student that has entered a program after the first week in October and does not have sufficient grades for the first marking period may be given an LE. Please note the student's final average will be hand-tended by the district, averaging the second, third and fourth quarter grades.

I (Incomplete):

Students that have been attending and have not completed the quarter's required work may be given an Incomplete. This student will have an additional 10 school days to complete the work. At that time the teacher will be asked to submit a quarter grade. An Incomplete will not be given for the fourth quarter.

NG (No Grade):

Students that have been absent for a documented reason, i.e. hospitalization, severe illness or injury, pregnancy, etc. may be given an NG. The student's final average must be hand-tended by the district.

Anecdotal remarks indicate to the home school district and the parents the need for supportive assistance to increase the level of student achievement and/or acceptable behavioral performance. Commendations for noteworthy accomplishments are also indicated.

MIDDLE STATES ACCREDITATION OF COLLEGES AND SCHOOLS

The Academy has received accreditation from the Middle States Association of Colleges and Schools (MSA). MSA was established in 1887 and is a non-governmental, non-profit, peer administered organization that provides leadership in school improvement for its member schools.

Each Technical Center underwent a comprehensive Accreditation for Growth Self-Study and has developed appropriate program mission statements as well as academic and behavioral student performance objectives. Action plans were developed and implemented by each site to help in meeting the objectives identified and to assist in overall school improvement plans. Middle States Validation Teams completed evaluations of The Academy's programs.

For additional information about our Accreditation for Growth process, please contact the building principal at their respective sites.

Gary D. Bixhorn Technical Center

Nicole Zergebel (631) 286-6500

Edward J. Milliken Technical Center

Chanelle Cox, Ed.D. (631) 244-5800

Harry B. Ward Technical Center

Marie Davis (631) 369-8100





All Course offerings are dependent upon adequate enrollment

**SECONDARY TECHNICAL EDUCATION
2024-2025 COURSE LISTING BY LOCATION**

PROGRAM	BTC	MTC	WTC
Animal Science	•		•
Art, Design and Visual Communications	•		
Audio Production		•	•
Auto Body Repair and Car Customizing		•	•
Automotive Technology****		•	•
Aviation/Professional Pilot Training	•		
Barbering	•		
Carpentry/Residential Construction and Home Improvement*	•		
Certified Personal Trainer	•		
Clinical Medical Assisting**		•	•
Computer Science and App Development	•		
Computer Repair and Networking	•		
Cosmetology***		•	•
Culinary Arts/Restaurant Operations Management		•	•
Dental Chairside Assisting	•		
Early Childhood Education		•	•
Electrical Trade and Alternative Energy	•	•	•
Emergency Medical Technician		TBD	
Fashion Merchandising and Design	•		
Heating, Ventilation and Air Conditioning (HVAC)	•	•	•
Law Enforcement	•	•	•
Marine/Motorsports Technology	•		
Nurse Assisting		•	•
Physical Therapy Aide	•		
Plumbing	•		
Practical Nursing	•		
Professional Photography and Digital Imaging	•		
Television, Video and Digital Film Production	•		
Welding/Metal Fabrication		•	

*Also located at Southampton and pending at Mattituck High Schools

**Also located at Southampton High School (pending)

***Also located at Brentwood High School

****Also located at East Hampton High School

<u>Center</u>	<u>Counselor</u>	<u>Contact Information</u>
Gary D. Bixhorn Technical Center	Albana Esposito Nicole Feldman	286-6515 email: aesposit@esboces.org 286-6516 email: nfeldman@esboces.org
Edward J. Milliken Technical Center	Paula Arbelaez-Stone Mai Lan Boyce-Hurst	244-5810 email: parbelae@esboces.org 244-5820 email: mhurst@esboces.org
Harry B. Ward Technical Center	Brittney Denninger	208-2038 email: bdenning@esboces.org

Eastern Long Island Academy of Applied Technology
2024-25 Textbook Reading Levels

COURSE	GRADE LEVEL
Animal Science	9.1 - 12
Art, Design and Visual Communications	7.4 - 13.5
Audio Production	13.5
Auto Body Repair and Car Customizing	10.3 - 12+
Automotive Technology (Brakes)	7.2 - 8.0
Automotive Technology (Engine Electric)	8.0
Automotive Technology (Engine Performance)	8.0 - 12+
Automotive Technology (Engine Transmissions)	8.0
Aviation/Professional Pilot Training	12
Barbering	10.3 - 12+
Carpentry/Residential Construction and Home Improvement	7.4 - 13.5+
Certified Personal Trainer	10.3 - 12+
Clinical Medical Assisting	9.5 - 12+
Computer Science and Application Development	10.3-12+
Computer Repair and Networking	8 - 12+
Cosmetology	7.5 - 9.9
Culinary Arts/Restaurant Operations Management	7.5 - 12+
Dental Chairside Assisting	9.6
Early Childhood Education	7.4 - 13.5+
Electrical Trade and Alternative Energy	7.4 - 13.5+
Fashion Merchandising and Design	7.4 - 13.5+
Heating, Ventilation and Air Conditioning (HVAC)	11.0 - 13.5+
Law Enforcement	8.4 - 12+
Marine/Motorsports Technology	10.3 - 12+
Nurse Assisting	10.1 - 12+
Physical Therapy Aide	10.3 - 12+
Plumbing	5.7 - 12
Practical Nursing	10.1
Professional Photography and Digital Imaging	10.1 - 12+
Television, Video and Digital Film Production	8.9 - 12+
Welding/Metal Fabrication	7.4 - 13.5+

The following programs at the Harry B. Ward Technical Center have been recognized by the NYS CTE Technical Assistance Center as Model Programs:



In order to receive this recognition, each program was reviewed by a team of experts from the Technical Assistance Center to ensure that we met their standards in the following areas:

- Strong curriculum that aligns with state, industry and academic standards and, at the secondary-level, preparing students for today's business and industry environments and post-secondary opportunities.
- Project-based and contextualized learning and related instructional approaches providing opportunities for students to apply technical, academic and employability knowledge and skills to real-life situations. Instruction is differentiated and personalized to meet the diverse learning styles, needs and interests of students. The learning experiences are organized and facilitated in a manner that creates a positive classroom culture.
- Multiple forms of assessment, including performance assessment, to evaluate student attainment of technical, academic and employability knowledge and skills which are aligned to program standards and curriculum and are appropriate to students' level of knowledge and skill attainment. Assessments are valid and reliable, and data from assessments is used for continuous program improvement.
- Diverse range of partners including employers, industry representatives, community/workforce/economic development agencies, and education stakeholders. The program conducts outreach activities to develop partnerships.
- Opportunities for students to obtain articulation with two- or four-year institutions to prepare students for the transition from high school to post-secondary study in a career area — they provide direct benefits to students such as dual credits, college credits, advanced standing or reduced tuition.
- Work-Based Learning (WBL) experiences providing students with opportunities to apply knowledge and skills learned in the classroom to real-world situations. These experiences engage local businesses and industry partners and increase the relevancy of classroom instruction.
- Facilitates and equipment in the CTE program reflecting current workplace practices, support and align to curriculum standards, and meet appropriate federal, state, and local safety standards.

We look forward to acknowledging staff, more programs, and buildings in the near future.

Congratulations to the Staff at WTC on a job well done!



Eastern Long Island Academy of Applied Technology



Exploring Your Opportunities



Discover your inner **animal lover!**

If providing high quality, humane care to animals during all stages of their lives is important to you, consider a career in animal science.

Job opportunities in the field of animal science are surprisingly diverse, including veterinary care, grooming, retail store services, pet-sitting, behavioral training, the pet food industry, humane societies, bio-medical laboratories, marine and theme parks, wildlife refuges and zoos.

This program provides you with hands-on experience with animals at the Cornell Cooperative Extension as well as a local horse farm.

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: ANIMAL SCIENCE

COURSE DESCRIPTION

Animal Science is designed to prepare students who are pursuing animal-related careers and can be used as a college-preparatory course for those interested in furthering their education in applied sciences.

This course provides students with the opportunity to work with a wide variety of animals. Classroom environment simulates procedures performed in veterinary hospitals, grooming shops and kennel facilities. Students are also provided with hands-on experience with farm animals at Cornell Cooperative Extension and at local horse farms.

COURSE CONTENT – First Year

- Comparative Anatomy and Physiology
- Introduction to Grooming
- Handling and Restraining Techniques
- Animal Husbandry
- Animal Behavior
- Parasitology
- Introduction to Pharmacology
- Reproductive Management

COURSE CONTENT – Second Year

- Equine Science
- Advanced Grooming
- Exotic Animal Care and Handling
- Diagnostic Procedures
- Surgical Nursing
- Marine Science
- Diagnostic Testing



EDUCATIONAL OPPORTUNITIES

Associate and Bachelor degrees in animal-related programs

CAREER OPPORTUNITIES

- | | |
|--|---|
| <ul style="list-style-type: none"> Zoos and Wildlife Facilities Aquariums Veterinary Hospitals Kennels Farms Grooming Facilities | <ul style="list-style-type: none"> Humane Societies and Animal Control Facilities Animal Shelters Diagnostic Laboratories Spay and Neuter Clinics Bio-Medical Research Facilities Equine Facilities |
|--|---|

SUGGESTED SUPPORTIVE COURSES

Living Environment

ADDITIONAL INFORMATION

COSTS	Uniforms \$60; tools \$50-\$60; industry certifications up to \$300; all fees are approximate
LENGTH OF COURSE.....	1 or 2 years
LOCATIONS	Gary D. Bixhorn Technical Center Harry B. Ward Technical Center
CTE/ACADEMIC CREDIT	Please see chart on pages 4 and 5 for update details
INDUSTRY CERTIFICATION	New York State Department of Environmental Conservation Wildlife Rehabilitator

Agriculture, Food and Natural Resources

- Horticulture (ICC)
- Canine Careers (ICC, WTC)
- Animal Science (BTC, WTC)





JOIN THE NEW AGE DESIGN PROFESSIONALS!

The art and design field knows no boundaries. Nearly every product around us, from the books we read to the clothes we wear, is influenced by the work of artists and designers. Today's artist needs to be prepared and skilled in a variety of tools, techniques as well as in design theory. The Art, Design and Visual Communications program provides opportunities with REAL clients and work experience. In this working studio environment, you will become familiar with the tools, techniques and theory needed to succeed. Through design projects, collaborative activities with related career classes and actual work experience, students are exposed to all facets of design



and a multitude of career paths, allowing them to create a well-rounded portfolio and valuable entry-level employment skills as well as preparation for higher education. Today's artists are the problem solvers of tomorrow and the Art, Design and Visual Communications class is where that successful future begins.



Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: ART, DESIGN AND VISUAL COMMUNICATIONS

COURSE DESCRIPTION

Through career-related, project-based and hands-on experiences, students enrolled in this creative class will develop a portfolio and foundational skill sets needed to enter various design fields and creative industries. Students will learn the basics of illustration with traditional and digital media, composition, design and color theory, team building and communication skills, as well as industry standard design software programs needed on any designer’s resume. The combination of the skills developed and applied, along with hands-on client work experiences, will enable students to create a portfolio worthy of college acceptance and entry-level work positions. Students also have the opportunity to earn industry recognition and college credit.

COURSE CONTENT

Use of Studio Tools and Equipment	Client Work Experience	Desktop Publishing
Layout and Composition Fundamentals	Character and Team Building	Basic 2-D Animation
Elements and Principles of Design	Portfolio Development	Presentation Graphics
Color Theory and Application	Digital Design/Computer Graphics	Pre-Production Art/Storyboards
Typography/Anatomy of Letterforms	Digital and Traditional Illustration	Package Design
Concept Development	Creative Application of Traditional and Digital Media	Product Concept Development
Workplace Safety and Health	Project-Based Career Exploration	Advertising Design
Professionalism and Work Ethics		Web Design Basics

EDUCATIONAL OPPORTUNITIES

- Associate Applied Science
- Advanced College Standing
- Bachelor Fine Arts

CAREER OPPORTUNITIES

Graphic Artist for Print Materials	Medical Illustrator	Typographer
Graphic Artist for Web	Storyboard Artist for TV or Film	Tattoo Artist
Advertising Designer	Environmental Graphics and Design	Make-Up Artist
Production Artist	Photo Retouching/Restoration	Muralist/Custom Painting
Illustrator/Cartoonist	Museum Technician	Fine Artist
Fine and Commercial Artist	Art Director	Art Therapy
Animator	Set Designer	Art Educator
Technical Illustration	Product Stylist	Art Historian
Textile Designer	Interior Design	Curator
Industrial Designer	Web Design	Art Conservator
Product Developer	Calligrapher	

ADDITIONAL INFORMATION

COST.....	Approximately \$50 to \$70 for various art supplies, sketchbook and SkillsUSA professional membership fee
LENGTH OF COURSE.....	1 or 2 years
LOCATION	Gary D. Bixhorn Technical Center
CTE/ACADEMIC CREDIT	Please see chart on pages 4 and 5 for updated details
INDUSTRY CERTIFICATION	Adobe Illustrator®

Arts, A/V Technology and Communications

- Art, Design and Visual Communications (BTC)
- Audio Production (MTC, WTC)
- Professional Photography (BTC)
- Television, Video, and Digital Film Production (BTC)
- Computer Graphic Arts Technology (ICC)
- Digital Media Production (ICC)
- Fashion Merchandising and Design (BTC)





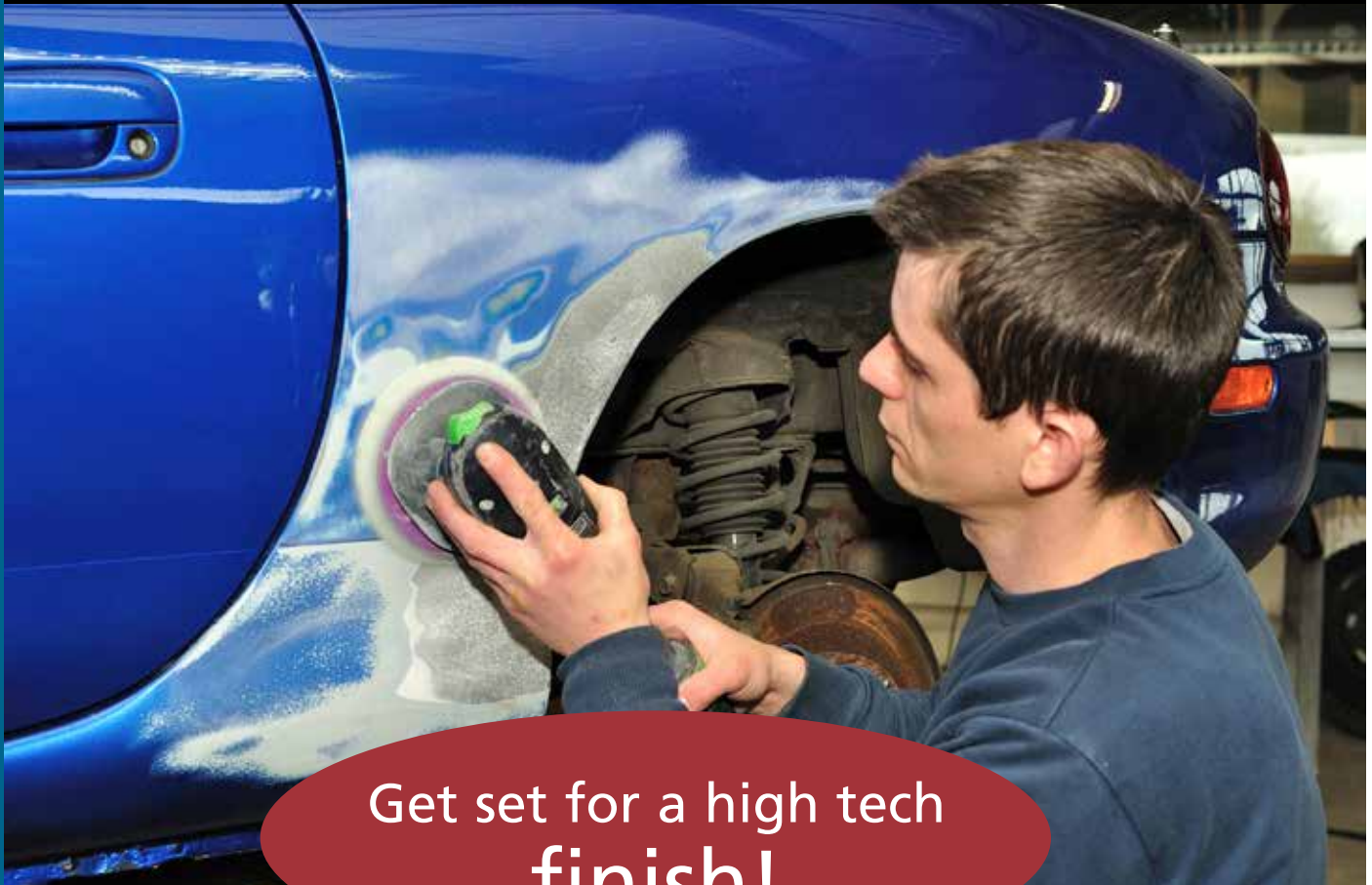
Make some **NOISE** in Audio Production!

Get ready to change your tune! Here's your opportunity to learn all about studio recording, live concert sound, digital audio production, and electronic music. You'll also become familiar with the skills producers need to be successful in the business end of this exciting industry. Either way, the Audio Production program is for you!

Learn how to succeed in an industry that continues to change and grow. With our state-of-the-art equipment, you will learn how to take charge of your recording sessions and live music events.

Advanced college/trade school credit is available to qualifying students from the following institutions:





Get set for a high tech
finish!

Come join the booming, high-paying field of auto body repair and car customizing. You will train hands-on as a collision repair and refinishing specialist with today's brand name products in an exciting, evolving, high-tech environment. This course will prepare you for I-Car Certification. You will also learn what it takes to provide outstanding customer service and the communication skills necessary to interact with other professionals in this high-demand industry.



Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: AUTO BODY REPAIR AND CAR CUSTOMIZING

COURSE DESCRIPTION

This program gives students the opportunity to learn how to dismantle and reassemble damaged automobile components, straighten metal parts and car frames, straighten dents, use filler compounds, grinding techniques and prepare a car for the refinishing shop. Students will also learn how to select and mix paint according to the latest EPA guidelines, as well as the proper techniques in spray painting. Students will also gain hands-on experience in vehicle customization.

COURSE CONTENT

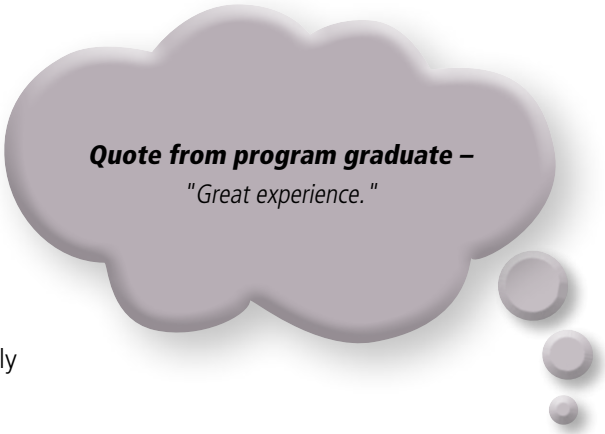
- | | |
|---|--|
| SP/2 Safety Training | Body Refinishing |
| Estimating/Billing | Vehicle Safety Systems (Air Bag and Seat Belt Systems) |
| Basic Metal Straightening/Repair | Heating, Cooling, Steering and Suspension Systems |
| Plastic Filler Application | Off-Road Customizing |
| Auto Body Refinishing in a Spray Booth | Pinstripping |
| Removal/Alignment and Replacement of Welded, Bolted and Glued on Applications | Electronic Circuit Fundamentals |
| MIG Welding/STRSW | Battery and Alternator Upgrades |
| Repair of Frame and Uni-Body Construction on EZ Liner | Soldering |
| Chief Truescan Live Mapping Laser Measure System and Chief Frame Machine | Storage of Batteries (Testing, Charging and Troubleshooting) |
| | Kicker and Remote Amp Installation and Design |

EDUCATIONAL OPPORTUNITIES

- Advanced College Standing
- Associate Degree or Certificate
- Advanced I-Car® Training
- Two-Year Technical College
- Bachelor Degree

CAREER OPPORTUNITIES

- | | |
|--------------------------------|--|
| Parts Representative | Body Assembly/Disassembly |
| Service Writer | Auto Body Material and Supply Representative |
| Painters' Prepper | Welder/Fabricator |
| Manager/Shop Manager | Auto Restoration |
| Polisher | Frame Technician |
| Masker | Used and New Car Lot Attendant |
| Auto Parts Dismantler/Recycler | Fiberglass Body Repairer |
| Painter/Refinisher | Insurance Adjuster/Estimator |
| Pinstriper | Exterior and Interior Auto Detailer |
| Heavy Collision Repairer | Off-Road Customizing |
| Rental Car Agency | Custom Sound System Installer |



Transportation, Distribution and Logistics/CTE

- Auto Body Repair and Car Customizing (MTC, WTC)
- Automotive Technology (MTC, WTC)
- Aviation/Professional Pilot Training (BTC)
- Marine/Motorsports Technology (BTC)

ADDITIONAL INFORMATION

- COSTS Uniforms approximately \$50, Tools approximately \$125
- LENGTH OF COURSE.....2 years
- LOCATIONSEdward J. Milliken Technical Center
Harry B. Ward Technical Center
- CTE/ACADEMIC CREDITPlease see chart on pages 4 and 5 for updated details
- INDUSTRY CERTIFICATIONI-Car® Certification





Make your passion your profession!

Tune up your career in this growing field which offers job opportunities in a wide variety of areas. You will gain the hands-on training you need in computer diagnostics, engine performance, automotive electronics, transmission repair, brakes, suspensions and more. You will also have an opportunity to work alongside automotive service technicians in some of the best dealerships in Suffolk County.

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: AUTOMOTIVE TECHNOLOGY

COURSE DESCRIPTION

This two-year program meets requirements for Automotive Service Excellence (ASE®) Certification and is certified by the National Automotive Technicians Education Foundation (NATEF™). This program provides students with theory and practice in the use of tools, special equipment, technical manuals, computerized service equipment, service specifications, diagnosis and methods of repair through teamwork, problem solving and critical thinking skills. Students will be prepared for The National Institute for Auto Service Excellence examination and have the option to be approved by the New York State Department of Motor Vehicles in NY State Inspection. High achieving juniors will have the opportunity to enter the AYES Program, which is a two-year apprentice program, administered through The Academy with local dealerships, similar to cooperative learning.

COURSE CONTENT

Engine Repair	Brake Systems
Automatic Transmission/Transaxle	Electrical/Electronic Systems
Manual Drive Train and Axle	Heating and Air Conditioning
Suspension and Steering	Engine Performance

EDUCATIONAL OPPORTUNITIES

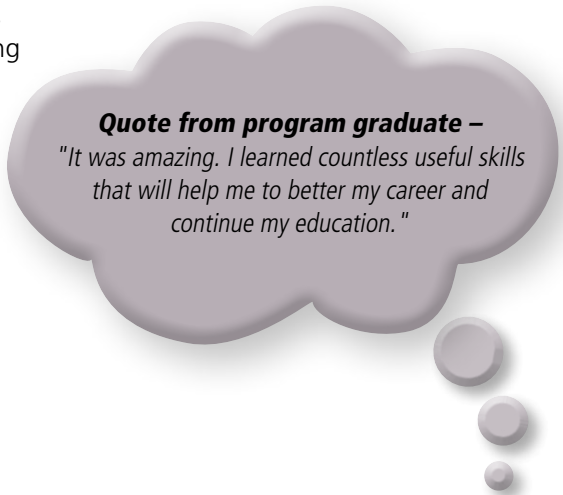
Advanced College Standing	Bachelor Degree
Associate Degree	Two-Year Technical College

CAREER OPPORTUNITIES

Automotive Specialized Technician	Parts Associate
Automotive Technician	Service Advisor
Customer Service Advisor	Service Associate
Lubrication Technician	

SUGGESTED SUPPORTIVE COURSES

Algebra and Living Environment



Students enrolling in this program are expected to show proficiency in math and science by scoring a minimum of 75% on the Algebra Regents and a minimum of 75% on the Living Environment Regents.

ADDITIONAL INFORMATION

COSTS Uniforms and shoes approximately \$30 – \$70

LENGTH OF COURSE..... 2 years

LOCATIONS Edward J. Milliken Technical Center
 Harry B. Ward Technical Center

CTE/ACADEMIC CREDIT Please see chart on pages 4 and 5 for updated details

INDUSTRY CERTIFICATION..... Automotive Service Excellence (ASE®), Maintenance and Light Repair & Auto Service Technician, NYS Certified Motor Vehicle Inspector, Snap-On® Digital Multi Meter, SP2®/Safety

Transportation, Distribution and Logistics/CTE

- Auto Body Repair and Car Customizing (MTC, WTC)
- Automotive Technology (MTC, WTC)
- Aviation/Professional Pilot Training (BTC)
- Marine/Motorsports Technology (BTC)

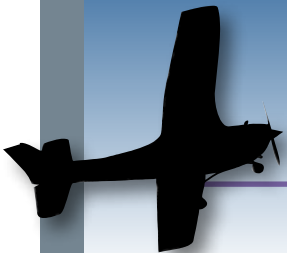




Soar above it all!

You look up into the sky every time you hear an airplane passing! You've been thinking about learning to fly for a long time, probably since you were a kid, but you haven't taken that first step to turn your dream into a reality. Well, now is the time. Our Aviation/Professional Pilot Training program at the Bixhorn Technical Center prepares students to receive their Federal Aviation Administration (FAA) Private Pilot Certificate. Soar above your friends! Learn to fly with The Academy!

*"To invent a plane is nothing, to build one is something, to fly is everything."
— Otto Lilienthal*



Advanced college/trade school credit is available to qualifying students from the following institution:



COURSE TITLE: AVIATION/PROFESSIONAL PILOT TRAINING

COURSE DESCRIPTION — FIRST YEAR

The students will study aerodynamics, navigation, meteorology, aviation physiology, airplane performance and air traffic control procedures. They will operate actual aircraft as well as flight simulators. All students will be prepared to take the Federal Aviation Administration (FAA) Private Pilot Knowledge Exam (FAA testing procedures apply) and the FAA 3rd Class Medical Exam by the end of the first year.

COURSE DESCRIPTION — SECOND YEAR

Students who have passed the FAA Private Pilot Knowledge Exam and the FAA 3rd Class Medical Exam will be eligible to enroll in the second year of the program. Students will have ground school and flight instruction in a single engine training aircraft. All flight time earned will be recorded in student logbooks and can be credited toward pilot certification. Students will also use computers with flight training simulator programs and graphics as well as academic software to cover aviation science areas and FAA exam material.

COURSE CONTENT

Science of Meteorology	Basic Sciences of Pre-Flight (Ground School)
Airport Layout and Design	Navigation and Related Mathematics
Radio Communications	Airplane Construction
Air Traffic Control	Aerodynamics and Related Services

EDUCATIONAL OPPORTUNITIES

Advanced College and Military Standing

CAREER OPPORTUNITIES

Professional Pilot	Flight and Ground Instruction
Air Traffic Controller and Services	Aircraft Management
Military Options	Airport Operations
Aircraft Dispatcher	Aeronautical Engineer
Meteorology	Aircraft Mechanic/Repairman
Aircraft Avionics Technician	



SUGGESTED SUPPORTIVE COURSES

Algebra, Earth Science and Physics

ADDITIONAL INFORMATION

COSTS	First Year: Approximately \$30 for required charts; Approximately \$20 for professional pilot shirt; FAA Knowledge Exam fee approximately \$165 *FAA Medical Exam fee approximately \$75-\$125
LENGTH OF COURSE.....	2 years
LOCATION	Gary D. Bixhorn Technical Center
CTE/ACADEMIC CREDIT	Please see chart on pages 4 and 5 for updated details
OPTIONAL INDUSTRY	
CERTIFICATION.....	Federal Aviation Administration Private Pilot Certification (Additional fees will apply)



*Please note: Certain medications may disqualify a student from passing the FAA Medical Review. Please see instructor for additional guidance.



**Cut
your
way
to a
great
career!**

In this program, you will learn styling, shear and clipper cutting, rolling and texturing of hair, facial grooming, and shaving techniques. Your training will prepare you for the New York State Barber Practical Examination which is required to become a licensed master barber. In addition, you will learn the business and communication skills you need to own and operate your own business. Bring your excitement and enthusiasm to this program and cut your way to a great career.



Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: BARBERING

COURSE DESCRIPTION

This course is a combination of classroom instruction and laboratory opportunities that will develop academic and professional knowledge as well as skills required for job acquisition, retention and advancement. This program emphasizes specialized training in safety, sanitation, shaving, reception, precision shear and clipper cutting, sales, and can create opportunities for small business ownership.

The curriculum is designed to give an overview of the barbering industry, licensing and the opportunities for professional growth. Students who successfully complete this course will have earned the 500 hours necessary to be eligible to sit for the New York State Licensing Board Exam. *Students must be at least 17 years of age to take the New York State Barber Practical Examination.*

EDUCATIONAL OPPORTUNITIES

Advanced College Standing
Two-Year Technical College
Associate Degree or Certificate

CAREER OPPORTUNITIES

Master Barber
Barbershop Owner
Barbering Instructor
Platform Artist

SUGGESTED SUPPORTIVE COURSES

Business, Health, Living Environment

ADDITIONAL INFORMATION

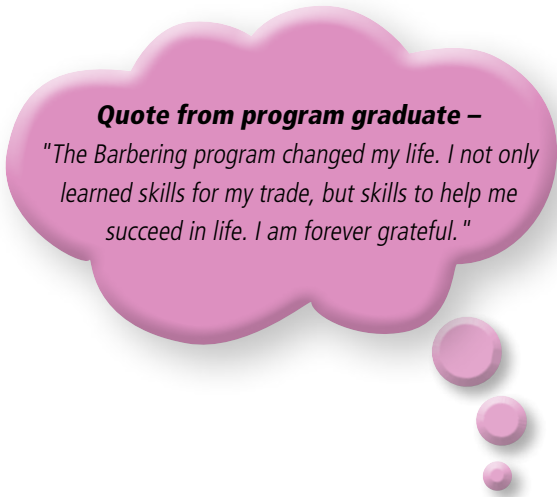
COSTS Approximately \$550 for complete kit which includes uniform, workbook and all tools required to complete this course and work in a barbershop

LENGTH OF COURSE..... 1 year

LOCATION Gary D. Bixhorn Technical Center

CTE/ACADEMIC CREDIT Please see chart on pages 4 and 5 for updated details

INDUSTRY CERTIFICATION New York State Licensed Master Barber, Basic Life Support



**Human Services/
Appearance Enhancement**

- Appearance Enhancement Exploration (IAC)
- Barbering (BTC)
- Cosmetology (ICC, MTC, WTC)
- Introduction to Appearance Enhancement (ICC)





A good career is **built** on a solid foundation!

Growth in the service industry has resulted in greater demand for skilled construction workers. Become familiar with the tools used in commercial construction as well as the materials used by builders, including lumber, concrete, drywall, roofing, fasteners and a wide variety of hardware. Over the course of a two-year program, students will tackle numerous hands-on projects, including full construction of a residential building. Qualifying students will have the opportunity to earn enhanced eligibility toward a five-year apprenticeship with the Empire State Regional Council of Carpenters Apprenticeship Program.



Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: CARPENTRY/RESIDENTIAL CONSTRUCTION AND HOME IMPROVEMENT

COURSE DESCRIPTION

The carpentry program is a combination of hands-on skill development and technical training in order to prepare students for entry-level employment or higher in residential construction, home improvements and related fields. Students will actively build and/or renovate a three bedroom, Energy Star® rated ranch on-site using Brookhaven Town and Energy Star® building codes. Both renovation and alteration of existing residential structures are taught, and students evaluate their own work and keep an active portfolio as well as a notebook.

Students will take the OSHA-10 course in their first year of study with the goal of obtaining the OSHA-10 card. Second-year students will take the OSHA-30 course as well.

COURSE CONTENT

Floor Framing and Sub Flooring	Drywall and Interior Trim to Include Spackle and Tape (Stilt Work)
Wall Framing	Soffits and Fascias
Roof Framing, Skylights	Replacing Windows and Doors
Sheathing, Siding and Roofing	Scaffolds and Ladder Safety
Re-Siding and Re-Roofing	Door and Window Installation
Building Trusses	

EDUCATIONAL OPPORTUNITIES

Advanced College Standing	Articulation Agreement with Carpenter’s Union
Associate Degree/Construction	Bachelor Degree/Architecture

CAREER OPPORTUNITIES

Carpenter, Apprentice, Helper	Dock Builder	Taper/Spackler
Lumber Yard Person	Mill Person	Estimator
Roofer	Flooring Installer	Drywall Installer
Siding Mechanic	Framer	Landscaper/Carpenter
Truss Fabricator	Exterior/Interior Trimmer	Home Improvement Contractor

SUGGESTED SUPPORTIVE COURSES

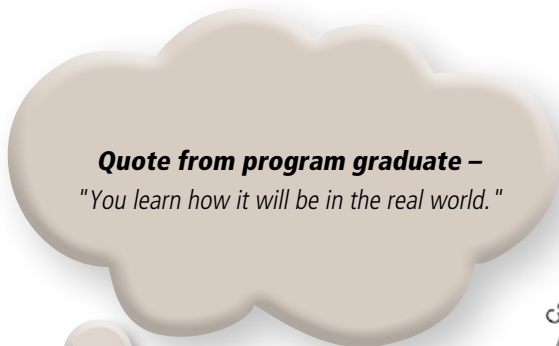
Algebra, Business, Mechanical Drawing, Technology

ADDITIONAL INFORMATION

COSTS	Approximately \$250 personal tools, work shoes and work jeans
LENGTH OF COURSE.....	2 years
LOCATION	Gary D. Bixhorn Technical Center Southampton High School (a.m. only)
CTE/ACADEMIC CREDIT:.....	Please see chart on pages 4 and 5 for updated details
INDUSTRY CERTIFICATION:	National Center for Construction Education and Research (NCCER) National Registry, OSHA-10, OSHA-30

Architecture and Construction

- Heating, Ventilation and Air Conditioning (HVAC) (BTC, MTC, WTC)
- Introduction to HVAC (ICC)
- Carpentry, Residential Construction and Home Improvement (BTC)
- Facilities Maintenance (ICC)
- Plumbing and Heating (BTC)
- Electrical Trade and Alternative Energy (BTC, MTC, WTC)
- Carpentry (ICC, WTC, Southampton HS)
- Carpentry Exploration (IAC)



Quote from program graduate –
"You learn how it will be in the real world."





Get your career **in shape!**

Welcome to today's health-conscious world! People are more interested than ever in losing weight, toning muscle, improving diet and living healthier lives. If fitness is your passion and you enjoy working with people, a career in personal training may be perfect for you. In this exciting and expanding field, you will have an opportunity to design weight-training and nutritional programs, help people gain greater self-esteem and see the results of your skills "take shape" every day. This course will offer you the opportunity to earn your National Personal Trainer certification through International Sports and Science Association (ISSA) making you fit for a great new career!



Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: CERTIFIED PERSONAL TRAINER

COURSE DESCRIPTION

This physical course includes anatomy, kinesiology, injury prevention, supplementation and nutrition, and all aspects of cardio and strength training and more. A world-renowned staff of researchers, scientists, sports medicine specialists and world champion athletes created the certification program that this course follows. The course is specifically designed to bridge the gap between clinical exercise, related course work and the practical application of sound health and fitness programming. Students will have an opportunity to earn a nationally-recognized certification from the International Sports Sciences Association (ISSA) upon successful completion of the course.

The second year will infuse the latest technologies from the healthcare and fitness industries into the Certified Personal Trainer curriculum. Students then have the opportunity to provide a supervised fitness program designed around a medical condition. Students will have the opportunity to earn a certification in Fitness/Exercise Therapy from the International Sports Sciences Association upon successful completion of the second year of this course.

COURSE CONTENT – First Year

- Scientific Foundations of Physical Activity and Fitness
- Nutrition, Body Composition and Weight Management
- Components of Fitness
- Special Populations
- Exercise Prescription
- Exercise Programming Considerations

COURSE CONTENT – Second Year

- Post-Rehab Orthopedic Exercise
- Therapeutic Flexibility
- Stress Management
- Avoiding Injury Recurrence
- Drug Interaction with Exercise
- Sports Medicine and Health Care
- Achieving Maximum Insurance Reimbursement

EDUCATIONAL OPPORTUNITIES

- Advanced College Standing
- Associate Degree
- Bachelor Degree

CAREER OPPORTUNITIES

- Certified Personal Trainer
- Sports Team Conditioner
- Exercise Instructor
- Physical Therapy
- Private Health Club
- Strength Coach
- Fitness and Exercise Therapist

SUGGESTED SUPPORTIVE COURSES

- Health, Living Environment

ADDITIONAL INFORMATION

- COSTS Workbook, BLS, and CPT certification costs, approved fitness uniform: total \$180; \$20 field trips; all fees are approximate
- LENGTH OF COURSE..... 1 or 2 years
- LOCATION Gary D. Bixhorn Technical Center
- CTE/ACADEMIC CREDIT Please see chart on pages 4 and 5 for updated details
- INDUSTRY CERTIFICATION International Sports Sciences Association (ISSA); Personal Trainer Certification; Specialist in Exercise Therapy

Health Science

- Introduction to Personal Training (ICC)
- Certified Personal Trainer (BTC)
- Clinical Medical Assisting (MTC, WTC)
- Dental Chairside Assisting (BTC)
- Nurse Assisting (MTC, WTC)
- Physical Therapy Aide (BTC)
- Practical Nursing (BTC)







**Vital signs are excellent
for Medical Assistants!**

Employment opportunities for medical assistants are growing fast. Prospects are exceptionally bright for those with formal training and certification. This course encompasses the study of anatomy and physiology, medical terminology, clinical and laboratory procedures, as well as medical law and ethics. A local clinical internship is required in this program and you also have the opportunity to attain the Certified Health Professionals (CHP) and CPR/BLS certifications.

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: CLINICAL MEDICAL ASSISTING

COURSE DESCRIPTION

This course is designed to provide basic training in medical assisting skills such as: phlebotomy, EKG, medical terminology, first aid and CPR. Successful completion enables students to become additionally certified. Emphasis is placed on preparing students for work in the health care industry. It provides fundamental theories and principles needed by all health care providers in the legal aspects of the industry, as well as professional behavior skills. Safety is emphasized throughout the course.

Students who successfully complete Clinical Medical Assisting and Nurse Assisting courses may be eligible for Patient Care Technician certification.

COURSE CONTENT

Basic Administrative Duties	Assisting with Exams	First Aid/CPR/AED
Medical History Taking	Assisting with Minor Surgery	Phlebotomy
Vital Signs	Lab Techniques	Principles of Pharmacy
Medical Terminology	Patient Education	Electrocardiogram
Medical Law and Ethics	Patient Preparations	Career Development
Standard Precautions	Collection and Preparation of Lab Specimens	Professionalism
Anatomy and Physiology		Clinical and Diagnostic Procedures
Physical Measurements	Sterilization Techniques	

EDUCATIONAL OPPORTUNITIES

There are over 80 allied health professions, including Practical Nurse (PN) and Registered Nurse (RN), offered by post-secondary vocational schools, Bachelor schools, upper division medical schools and community or junior colleges.

CAREER OPPORTUNITIES

Hospital Admissions Departments	Hospital Patient Care Departments	Drug or Alcohol Rehabilitation Centers
Hospital Radiology Departments	Patient Care Units	Private Laboratories
Skilled Nursing Facilities	Hospital Laboratory Departments	Medical Clinics
Psychiatric Institutions	Hospital Medical Records Departments	
Private Medical Offices		

SUGGESTED SUPPORTIVE COURSES

Algebra, Living Environment

Students enrolling in this program are expected to show proficiency in math and science by scoring a minimum of 75% on the Algebra regents and a minimum of 75% on the Living Environment regents.



ADDITIONAL INFORMATION

COSTS	Materials/uniforms \$150; workbook \$100; Physical exam required: CHP exam \$140; EKG exam \$160; Phlebotomy exam \$160; all fees are approximate
LENGTH OF COURSE.....	1 year
LOCATIONS	Edward J. Milliken Technical Center Harry B. Ward Technical Center Supervised clinical experience in a work setting
CTE/ACADEMIC CREDIT	Please see chart on pages 4 and 5 for updated details
INDUSTRY CERTIFICATIONS.....	Certification in Clinical Medical Assisting through Certified Health Professionals (CHP) and optional certification in Phlebotomy, EKG, Basic Life Support





Keys to a booming future.

Jobs in computer science and application development are among the highest paid and most in-demand in today's economy. Computing drives innovation in science, engineering, business, entertainment, and education.

A solid foundation in computer science will provide you with the problem-solving skills and logical thinking that will give you a competitive advantage in your career, whatever field you choose. Mastering the language of computing can provide you with a critical advantage in the job market. Whether you want to be a scientist, technician, or engineer, or want to develop the next "killer app," here's your opportunity to step into one of today's hottest fields.

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: COMPUTER SCIENCE AND APPLICATION DEVELOPMENT

COURSE DESCRIPTION

Students will be exposed to a diverse set of computational thinking concepts, fundamentals and tools, allowing them to gain understanding and build confidence and to develop and evaluate computing systems and software. Students use the Java™ computer programming language to design and develop computer software and to implement their designs into practice. The course utilizes industry-standard tools such as Java™ programming language, integrated development environments, XML and MS-Office™. Students collaborate to create original solutions to problems and challenges of their own choosing by designing and implementing user interfaces, developing processing logic, and utilizing advanced data structures. Related student experiences include app development, data visualization, cybersecurity and simulation. This program presents a curriculum for preparing students for success on both the College Board AP Computer Science A exam and the Oracle Certified Associate (OCA) Java™ SE Programmer I certification exam.

EDUCATIONAL OPPORTUNITIES

Eligible for the AP Computer Science A examination
 Associate Degree
 Bachelor Degree

REQUIRED COURSE

Students enrolling in this program are expected to show proficiency in math by scoring a minimum of 80% on the Algebra II Regents examination.

SUGGESTED SUPPORTIVE COURSES

Trigonometry, Physics

CAREER OPPORTUNITIES

Software Engineer	Data Analyst
Website Developer	Database Administrator
Mobile App Developer	Management Info Systems
Systems Analyst	Information Technology Specialist
Video Game Design and Development	

ADDITIONAL INFORMATION

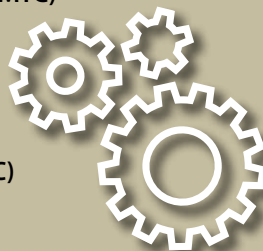
COSTS.....Additional fees of approximately \$300 may be incurred
 LENGTH OF COURSE1 year
 LOCATION.....Gary D. Bixhorn Technical Center
 CTE/ACADEMIC CREDITPlease see chart on pages 4 and 5 for updated details
 INDUSTRY CERTIFICATIONSOracle Java™ SE Programmer I, AP Computer Science A

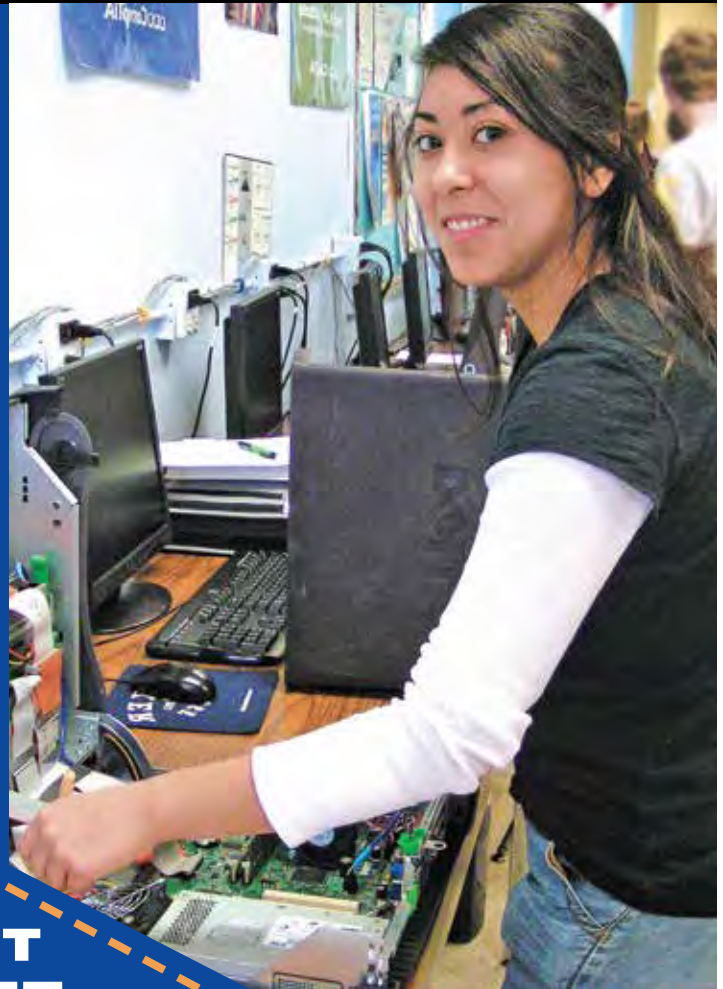
Quote from program graduate –
"Interesting and informative experience."

Quote from program graduate –
"It was fun and very helpful towards my end goal."

Manufacturing Technology

- Welding/Metal Fabrication (MTC)
- Computer Science and App Development (BTC)
- Computer Repair and Networking (BTC)
- Introduction to Welding (ICC)





**HIT
THE
TECHNICAL
HIGHWAY!**

Ongoing developments in the computer industry are generating exciting new job opportunities every day. The proliferation of computer systems in the workplace has created a huge demand for people who can set up, repair, and maintain computers and their technological components. This course offers you the opportunity to achieve A+ certification, preparing you to enter the workforce! Come and explore all that our dynamic Computer Repair and Networking Program has to offer.

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: COMPUTER REPAIR AND NETWORKING

COURSE DESCRIPTION

This combined course is designed to prepare students with practical experiences and related theory leading to an entry-level position as a Computer Repair Technician. Students will learn how to use test equipment and software to troubleshoot and correct common personal computer problems. Students will receive the necessary instruction to prepare for the A+ Certification exam at the completion of Year 1. The A+ Certification is recognized industry-wide and represents six months of work-related experience. This course is also designed to give students core knowledge of information systems, development and project management. If students return for the second year of the program, they will prepare for the Network+ Certification.

COURSE CONTENT–Year 1

Basic Electricity	Network Cabling	Video Displays
Digital Electronics	Customer Service	Multimedia Hardware
Electronic Circuit Troubleshooting	Operating Systems	Preventive Maintenance
Microprocessor Fundamentals	System Boards	VR Headsets
Computer Hardware	Input/Output Devices	3D Printers
Hardware/Software Troubleshooting	Data Storage	Cloud Computers
Data Communications	Printer Servicing	

COURSE CONTENT–Year 2

- Advanced PC Hardware
- Advanced Networking
- Low Voltage
- Local Area Networks
- Routers and Switches

EDUCATIONAL OPPORTUNITIES

- Advanced College Standing
- Two-Year Technical College
- Associate Degree or Certificate

CAREER OPPORTUNITIES

- | | |
|----------------------------|------------------------------------|
| Computer Repair Technician | Related Retail and Sales Positions |
| Bench Tester | Security and SMCA Home Technician |
| Network Cable Technician | Low Voltage Technician |
| Technical Representative | |

Manufacturing Technology

- Welding/Metal Fabrication (MTC)
- Computer Science and App Development (BTC)
- Computer Repair and Networking(BTC)
- Introduction to Welding (ICC)



SUGGESTED SUPPORTIVE COURSES

Algebra, English

Students enrolling in this program are expected to show proficiency in math and Science by scoring a minimum of 75% on the Algebra Regents and a minimum of 75% on a Science Regents.

ADDITIONAL INFORMATION

COST	Tools \$75; OSHA certifications up to \$250; Comp TIA certifications up to \$450; ETA certification \$80; all fees are approximate
LENGTH OF COURSE.....	1 or 2 years
LOCATION	Gary D. Bixhorn Technical Center
CTE/ACADEMIC CREDIT	Please see chart on pages 4 and 5 for update details
INDUSTRY CERTIFICATIONS	First year: Comp TIA A+; OSHA-10; Test Out Second year: Network +; ETA Electronics Technician OSHA-30





Your future is **looking good!**

ADD STYLE to your career! Enter the dynamic field of cosmetology at The Academy and gain hands-on experience in hairstyling, hair coloring, skin care, make-up, chemical texturizing, and nail technology. Your training will prepare you to take the New York State Cosmetology Examination to become a licensed cosmetologist. You will also learn what it takes to run a successful business!

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: COSMETOLOGY

COURSE DESCRIPTION

Instruction is provided along with hands-on experience in hair shaping, styling and chemical services, including hair coloring, permanent waving, body waves and chemical relaxing. Encompassed within the curriculum are treatments of the hair and scalp, facials, all aspects of make-up, nail care and artificial nails. The course also teaches the business and science-related aspects of cosmetology and salon management. A cosmetology license qualifies graduates to work with hair, skin and nails, as well as allows specialization in any area of cosmetology. This license will unlock countless doors within the beauty industry. **Students who successfully complete this 1,000 hour course over two years will be eligible to sit for the New York State Board Licensing Exam.**

COURSE CONTENT

Care of Hair and Scalp	Wigs, Hair Pieces and Extensions
Hair Cutting Techniques and Shaping	Skin Care and Make-Up Application
Hair Styling and Thermal Curling	Manicuring and Artificial Nails Design
Braiding and Hair Extensions	Pedicure and Paraffin Treatments
Chemical Relaxing and Permanent Waving	Salon Management and Salon Business
Hair Coloring and Hair Lightening	Related Theory

CAREER OPPORTUNITIES (licensed):

Natural Hair Stylist	Instructor – Private or Public School
Chemical Texturing Specialist	Desaiology
Haircutting Specialist	Nail Technician, Pedicurist
Hair Colorist	Certified Microblade Technician
Platform Artist	Eyelash Technician
Salon Manager/Owner	Hair Extension Specialist
Esthetician (Skin Care Specialist)	Laser Technician
Make-up Artist/Theatre, TV and Fashion	Permanent Make-Up Artist
Instructor for Professional Products	

CAREER OPPORTUNITIES (not requiring a license):

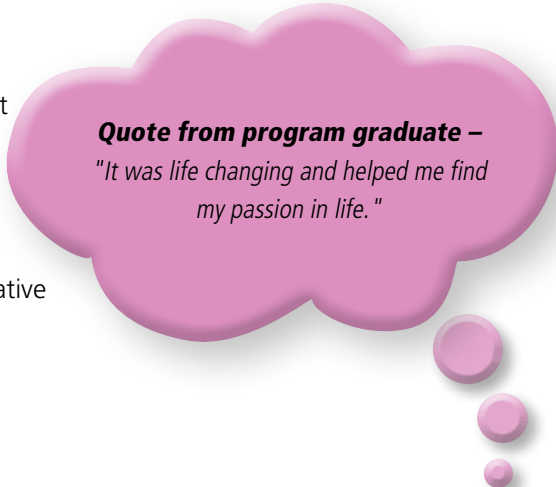
Beauty Supply Sales Manager/Sales Clerk	Retail Consultant
Receptionist	Beauty Columnist
Cosmetic Sales	Manufacturer's Representative
Social Media Influencer	Beauty Public Relations

SUGGESTED SUPPORTIVE COURSES

Business, English, Living Environment

ADDITIONAL INFORMATION

COSTS	Year 1: kit approximately \$500
	Year 2: kit approximately \$350
LENGTH OF COURSE.....	2 years
LOCATIONS	Edward J. Milliken Technical Center
	Harry B. Ward Technical Center
CTE/ACADEMIC CREDIT	Please see chart on pages 4 and 5 for updated details
INDUSTRY CERTIFICATION	Upon completion of the second year, students are eligible to take the New York State Cosmetology Licensing Exam.



**Human Services/
Appearance Enhancement**

- Appearance Enhancement Exploration (IAC)
- Barbering (BTC)
- Cosmetology (ICC, MTC, WTC)
- Introduction to Appearance Enhancement (ICC)






Recipe

Discover a recipe for success!



Learn the secrets of the great chefs! In this course, you'll gain foundational cooking skills and have the potential to earn ServSafe®, ProStart® and ACF Secondary Graduate professional certifications. Learn what it takes to succeed as a chef for a restaurateur in this exciting, high-profile industry. Get your career cookin' today in the Culinary Arts/Restaurant Operations Management program.

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: CULINARY ARTS/RESTAURANT OPERATIONS MANAGEMENT

COURSE DESCRIPTION

Our program begins with baking and pastry arts and moves into complete food preparation and management techniques. Students gain an understanding of baking and cake decorating, nutrition, menu planning, catering, dining food service, food production, as well as safety and sanitation codes. Second year students are prepared to take the National Restaurant ServSafe® test. The program has the accreditation of the American Culinary Federation (ACF), which provides students with the opportunity to earn a Certified Fundamentals Cook® (CFC®). The program is also associated with the New York State Restaurant Association (NYSRA) Educational Foundation ProStart® Program, which provides students with work experience necessary to succeed in the workplace.

COURSE CONTENT

Professional Food Preparation and Service	Health Regulations and Codes
Preventative Safety	Cooking Methods and Techniques
Tools and Equipment	Cost Control and Purchasing
Weights and Measures	Baking
Menu Planning	Pastry Skills
Buffets and Banquets	Recipe Conversions
Food Presentation/Styling	Employability Skills
Time Management	Nutrition
Table Service	Food and Cultures
Customer Service Skills	Community Service Opportunities
Catering	Regional and Ethnic Cooking
Ice Carving	

EDUCATIONAL OPPORTUNITIES

Advanced College Standing	Bachelor Degree
Associate Degree or Certificate	Masters Degree

CAREER OPPORTUNITIES

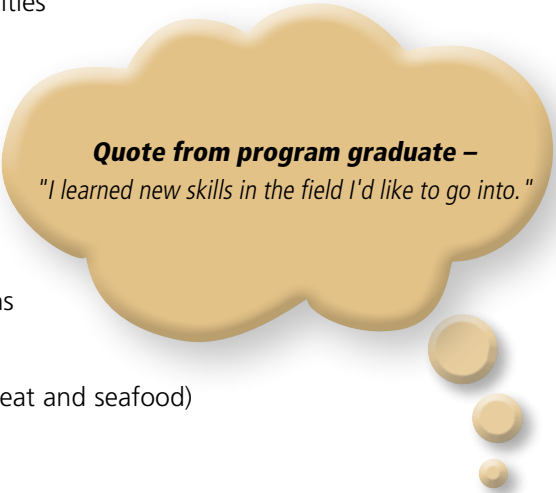
Institutional Food Service	Corporate Theme Franchises
Corporate Catering	Hotels and Tourist Destinations
Personal Chef	Private Restaurants
Airline, Railroad and Cruise Lines	Fast Food Restaurants
Restaurant Suppliers and Wholesalers	Supermarkets (deli, bakery, meat and seafood)

SUGGESTED SUPPORTIVE COURSES

Algebra, Written and Verbal Communication Skills

ADDITIONAL INFORMATION

COSTS	2 uniforms, approximately \$95; approved footwear 1 pair, approximately \$40
LENGTH OF COURSE.....	2 years
LOCATIONS	Edward J. Milliken Technical Center Harry B. Ward Technical Center
CTE/ACADEMIC CREDIT	Please see chart on pages 4 and 5 for updated details
INDUSTRY CERTIFICATIONS.....	American Culinary Federation (ACF), Certified Fundamentals Cook® (CFC®) ServSafe®, ProStart®, Suffolk County Food Handler, Certified Fundamentals Pastry Cook® (CFPC®)



Hospitality and Tourism

- Culinary Arts/Restaurant Operations Management (MTC, WTC)
- Introduction to Cooking (ICC)
- Food Preparation Service (ICC, WTC, BTC)
- Introduction to Baking (ICC)
- Culinary Exploration (IAC)






A **wide-open** career that's
worth **smiling** about!

Dental chairside assistants prepare patients for treatment, maintain instruments and equipment, work with patients' dental records and provide supportive services to a licensed dentist (four-handed dentistry). Employment in this field is growing, and opportunities are expected to be plentiful. A local clinical internship is required in this program which will start you on your way to a smart new career!

Advanced college/trade school credit is available to qualifying students from the following institution:



COURSE TITLE: DENTAL CHAIRSIDE ASSISTING

COURSE DESCRIPTION

Students will learn how to work chairside with the dentist, prepare dental materials, perform basic business procedures, and provide practical experience in radiology and four-handed dentistry. Students learn in a simulated environment equipped with the most current equipment and software in a setting where skills are taught with a strong emphasis on patient care and business application. Students gain experience through clinical practice in the field. This program will prepare students for a course of study in higher education for the New York State Dental Assisting Licensing Program.

COURSE CONTENT

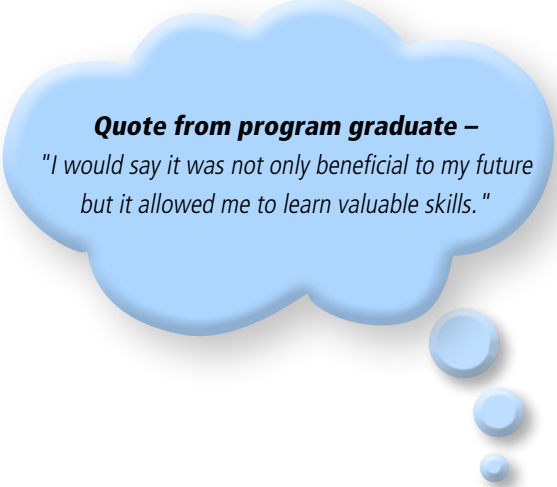
Introduction to Dental Assisting	Personal Health and Grooming
Pre-Clinical Sciences	Chairside Procedures
Basic Laboratory Skills	Applied Psychology
First Aid and Emergency Treatment	Prevention and Control in Dental Health
General Office and Patient Routine	Expanded Functions
Basic Dental Sciences	Dental Specialties
Instrument Care	Office Management Skills
Film Exposure	X-Ray Processing
Practice Administration	X-Ray Mounting and Digital Technology

EDUCATIONAL OPPORTUNITIES

- Associate Degree
- Bachelor Degree
- Doctoral Degree (Dentistry)

CAREER OPPORTUNITIES

General Dentist	Oral Maxillofacial Surgery
Orthodontics	Pediatric Dentistry
Periodontics	Endodontics
Prosthodontics	Dental Insurance Company
Private Practice	Group Practices
Federal, State and Local Agencies	Armed Forces
Dental Supply Company	Dental Public Health
Certified Dental Assistant	Dental Lab Technician
Registered Dental Hygienist	



SUGGESTED SUPPORTIVE COURSES

- Anatomy
- Basic Computer Concepts
- Chemistry, Living Environment

ADDITIONAL INFORMATION

COSTS	Uniforms approximately \$95; workbook/other supplies approximately \$50; complete physical exam required
LENGTH OF COURSE.....	1 year
LOCATION	Gary D. Bixhorn Technical Center
CTE/ACADEMIC CREDIT	Please see chart on pages 4 and 5 for updated details
INDUSTRY CERTIFICATION	Basic Life Support, Narcan

Health Science

- Introduction to Personal Training (ICC)
- Certified Personal Trainer (BTC)
- Clinical Medical Assisting (MTC, WTC)
- Dental Chairside Assisting (BTC)
- Nurse Assisting (MTC, WTC)
- Physical Therapy Aide (BTC)
- Practical Nursing (BTC)





Find **big** rewards in a **small** world.

- a**
- b**
- c**
- d**
- e**

Prepare yourself with the skills you need for a future in teaching. Gain hands-on experience as a student teacher in our on-site preschool. Earn work experience in community-based Early Childhood programs as you work toward your Child Development Associate Credential. College credits are offered through this exciting technical education program.

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: EARLY CHILDHOOD EDUCATION

COURSE DESCRIPTION

This course is designed to prepare students for careers as teachers or child care providers in early childhood education. The study of child development is included by direct hands-on work experience with children in our on-site preschool. A second year option is available which prepares students to work toward the Child Development Associate (CDA), a nationally recognized credential that will qualify candidates to meet all state licensing requirements to work as a child care professional in any early childhood program in the United States. Students in the second year program participate in community-based internships to explore varied educational settings and student groups.

COURSE CONTENT – Year 1

- Career Planning and Preparation
- Observation and Assessment
- Child Development Principles and Theories
- Understanding Children from ages 2–5
- Guidance Techniques
- Creating a Safe and Healthful Environment
- Curriculum Planning
- Learning Experiences for Children
- Guiding Children with Special Needs

CLINICAL LAB PRACTICE – Year 1

Students participate as teachers-in-training in an on-site preschool laboratory, working with children 3 to 5 years old. Students work in teaching teams with a rotation of job assignments and positions.

COURSE CONTENT – Year 2

- Community-Based Work Experience
- Classroom Management and Supervision
- Program Management
- Parent/Teacher/Community Relations
- First Aid/Pediatric CPR Certification
- CDA Credential Preparation

CLINICAL LAB PRACTICE – Year 2

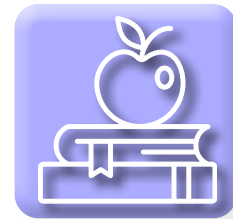
Students serve in the lead teacher role in the on-site preschool laboratory, as well as participating in community-based field placements in their choice of settings including infant/toddler or preschool, daycare, Head Start and special education preschool.

EDUCATIONAL OPPORTUNITIES

- Associate Degree
- Bachelor Degree

CAREER OPPORTUNITIES

- Nursery Schools
- Recreation Facilities
- Elementary Schools
- Group Day Care Centers
- Special Education Facilities
- Family Home Day Care Provider
- Community Service Agencies
- Youth Centers



SUGGESTED SUPPORTIVE COURSES

Human Development, Food and Nutrition, Parenting, and Child Psychology

ADDITIONAL INFORMATION

- COSTS** **First year:**
 Smock \$25; portfolio box \$15; notebook \$5; misc. craft supplies \$5; Pediatric CPR/AED and First Aid certification \$25 (CPR certification valid for two years)
 All fees are approximate
Second year:
 Pediatric CPR/AED and First Aid certification \$25; CDA book \$30 (CDA book includes application packet/shipping and handling); CDA certification \$425 (optional)
 All fees are approximate
- LENGTH OF COURSE**..... 1 or 2 years
- LOCATIONS** Edward J. Milliken Technical Center
 Harry B. Ward Technical Center
- CTE/ACADEMIC CREDIT** Please see chart on pages 4 and 5 for updated details
- INDUSTRY CERTIFICATION** Child Development Associate (CDA)
 Pediatric CPR/AED and First Aid





More **power** to you!



It's an electrified world! From homes to sports stadiums to skyscrapers, we all depend on electricians to build and maintain the power systems that make modern life possible. This fast-paced program covers construction-based electrical concepts plus the newest means of generating energy including solar, wind, and geothermal technologies. So "get current" with the leading-edge skills to succeed in this evolving and well paying field!

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: ELECTRICAL TRADE AND ALTERNATIVE ENERGY

COURSE DESCRIPTION

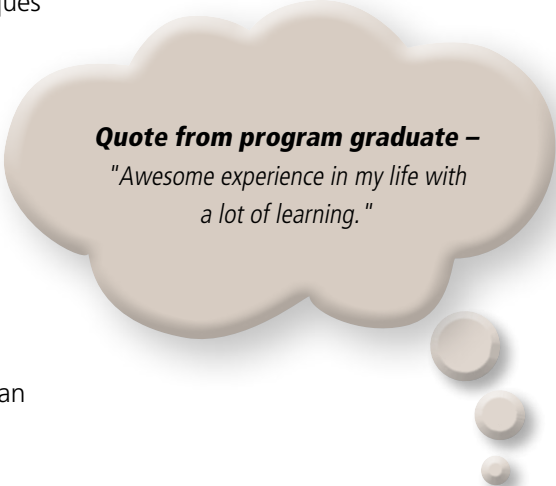
This two-year program is a combination of hands-on skill development and technical training in order to prepare students for entry level employment or higher in the electrical trade. Students gain practice in traditional wiring methods and blueprint reading, as well as learn the latest renewable energy concepts including solar, wind, and geothermal technologies.

Students will take the OSHA-10 course in their first year of study with the goal of obtaining the OSHA-10 card. Second-year students will take the OSHA-30 course as well.

COURSE CONTENT

Series and Parallel Circuits
 Ohm's Law/Power Law
 Electrical Codes
 Alternating Current Theory
 Trade Related Technical Math
 Residential/Commercial Wiring Methods

Residential Service Installations
 Basic Troubleshooting Techniques
 Basic Electrical Measurements
 Raceways
 Motor Control Wiring
 Alternative Energy Sources



EDUCATIONAL OPPORTUNITIES

Associate Degree

CAREER OPPORTUNITIES

Electrician's Helper
 LIRR/MTA Entry-Level Apprenticeships
 IBEW Apprenticeships
 Building Electrical Maintenance Assistant
 Electrical Utility Apprenticeships

Cable System Technician
 Geothermal Technician
 Wind Turbine Service Technician
 Entrepreneurship

CAREER OPPORTUNITIES FOLLOWING ADDITIONAL COURSEWORK

Electrician
 Energy Retrofitting Specialist
 Energy Engineer
 Solar Photovoltaic Installer

Solar Energy Manager
 Data and Telecommunications Technician
 Electrical Power Line Installer/Repairer

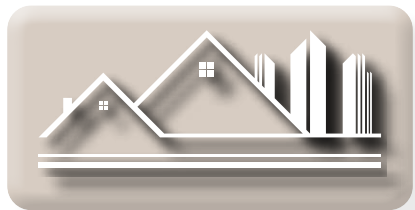
SUGGESTED SUPPORTIVE COURSES

Algebra

Students enrolling in this program are expected to show proficiency in math and science by scoring a minimum of 80% on the Algebra Regents and a minimum of 75% on the Living Environment Regents.

ADDITIONAL INFORMATION

- COSTSTools approximately \$250; approved footwear approximately \$35
- LENGTH OF COURSE.....2 years
- LOCATIONSGary D. Bixhorn Technical Center, Edward J. Milliken Technical Center, and Harry B. Ward Technical Center
- CTE/ACADEMIC CREDITPlease see chart on pages 4 and 5 for updated details
- INDUSTRY CERTIFICATION.....National Center for Construction Education and Research (NCCER) National Registry, OSHA-10, OSHA-30





Making a Vital Difference in the Lives of Others

Do you have an interest in helping others who are sick or injured? Do you want to make a difference and be an important part of an emergency team? It is the first step on a pathway to a career as a paramedic or a variety of other careers in health care.

With more than 2.8 million people on Long Island and upwards of 100 separate fire and EMS agencies across Suffolk County alone, it is readily apparent why this program is so vital. If you have a calling to help those in need, this is the program for you.

Advanced college/trade school credit is available to qualifying students from the following institutions:

COURSE TITLE: EMERGENCY MEDICAL TECHNICIAN

COURSE DESCRIPTION

Emergency Medical Technicians provide out of hospital emergency medical care and transportation for critical and emergent patients who access the emergency medical services (EMS) system. EMTs have the basic knowledge and skills necessary to stabilize and safely transport patients ranging from non-emergency and routine medical transports to life threatening emergencies.

These technicians are skilled in the provision of basic life support for the many illnesses and accidents that require emergency medical treatment prior to arrival in a hospital emergency department. EMTs are trained in patient immobilization and packaging procedures needed to prevent further injury and to provide safe transport to an appropriate medical facility

This is a program designed to prepare students for the NYS EMT certification while they explore a wide range of careers in the health care field. Students will receive technical as well as hands-on training in emergency medicine. Students will complete internship hours with local rescue squads.

COURSE CONTENT

- Patient Assessment
- General Pharmacology
- Airway Management
- Shock and Resuscitation
- Medical Assessment
- Traumatic Injuries
- EMS Operations and Incident Management
- Medical Legal and Ethical Issues

EDUCATIONAL OPPORTUNITIES

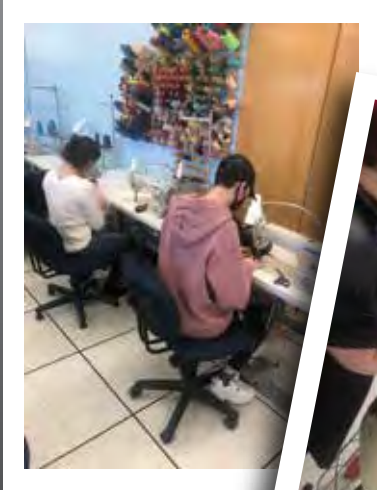
- Advanced College Standing
- Two Year Technical College
- Associate Degree or Certificate

SUGGESTED SUPPORTIVE COURSES

Biology, Living Environment, Regents Algebra, Chemistry (completed or taken while enrolled)

ADDITIONAL INFORMATION

- COSTS TBD
- LENGTH OF COURSE..... TBD
- LOCATION TBD
- CTE/ACADEMIC CREDIT TBD
- INDUSTRY CERTIFICATION American Heart Association Basic Life Support Certification, CPR, AED/ NYS Department of Health EMT-B Certification/NYS Certified First Responder
- TECHNICAL ASSESSMENT (TBD)..... New York State EMT-B Certification Exam (Tentative)



MAKE EVERY DAY A RUNWAY!

Here's your chance to get an insider's view of the fashion industry, from designing and creating your own clothes to buying and promoting fashion related products. Learn how to forecast fashion trends and find out what it takes to be a successful designer, buyer, visual merchandiser, or stylist. Visit the heart of Manhattan's garment district and explore the many different "fashion avenues" that this exciting field has to offer!



Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: FASHION MERCHANDISING AND DESIGN

COURSE DESCRIPTION

This course provides skills and experience in retail operations, merchandising display and apparel design. Students cut, sew and design their own garments, demonstrate the forecasting of fashion, visually create a fashion display, illustrate sample garments for their portfolio, perform basic business procedures needed for any retail operation, and work cooperatively as a team member to run a successful retail store.

COURSE CONTENT

APPAREL DESIGN

Design Theory: Design Principles, Fashion History, Forecast Analysis, Figure Study, Illustration, Rendering/Presentation, Design
Garment Design: Market Study, Apparel Quality/Cost Analysis, Pattern Design, Sewing Techniques and Construction, Draping
Individual Projects: Three or More Original Designs (casual, day wear, evening)
Fashion Production: Spring Fashion Showcase of Student Project Designs and Local Retailer/Boutique Selections

RETAIL OPERATIONS

Retail Store Organization: Merchandising, Finance and Control, Operations and Promotional Division Responsibilities
Operations Division: Store Image/Market, Customer Service, Financial Controls, Product Inventory, Personnel, Vendor Relations, Promotion, Layout/ Display and Housekeeping/Security
Customer Service: Profile/Market Segmentation, Merchandising Objectives, Service Policies, Sales Strategies, Inventory, Receipts Control
Spare Change: In-House Retail Boutique Providing Practical Exploration of Fashion Merchandising Curriculum

VISUAL MERCHANDISING

Display Design: Traffic Analysis, Market Impact, Calendar/Season, Theme, Composition, Floor Plans and Spec Rendering
Display Techniques: Realistic, European and Exaggerated (lay-down, pin-up, and flying)
Display Fixtures: Free Standing, Shadow Box, T-Walls, Structural Columns, Fascia, Display Counters, Platform, Shell Form, Risers and Build-ups
Planning: Schedule, Physical Requirements, Tools and Supplies, Lighting Equipment and Reference Materials

EDUCATIONAL OPPORTUNITIES

Advanced College Standing
 Associate Degree in Marketing, Retail Business Management
 Bachelor Degree

CAREER OPPORTUNITIES

Sales Associate	Pattern Maker
Management Trainee	Visual Merchandiser
Publicity Assistant	Buyer
Fashion Coordinator	Seamstress
Display Designer	Fashion Stylist
Fashion Designer	Fashion Teacher



ADDITIONAL INFORMATION

COSTS Approximately \$120 for supplies and materials
LENGTH OF COURSE..... 1 or 2 years
LOCATION Gary D. Bixhorn Technical Center
CTE/ACADEMIC CREDIT Please see chart on pages 4 and 5 for updated details

Arts, A/V Technology and Communications

- Art, Design and Visual Communications (BTC)
- Audio Production (MTC, WTC)
- Professional Photography (BTC)
- Television, Video, and Digital Film Production (BTC)
- Computer Graphic Arts Technology (ICC)
- Digital Media Production (ICC)
- Fashion Merchandising and Design (BTC)





Janine Tirone, Professional Photography Program

**Fire
&
Ice!**

Businesses, industries and homes all use the services of HVAC technicians. Train for any one of 17 career paths including cooling and heating, control systems and more. You will have an opportunity to earn national licensing and certification in refrigerant handling from the EPA as well as gas and oil heat servicing certifications from NATE and NORA. Students who qualify may participate in factory-sponsored training by a major HVAC local supplier. Qualifying students may also receive reduced tuition rates and 300 hours of training at a local college.

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: HEATING, VENTILATION AND AIR CONDITIONING (HVAC)

COURSE DESCRIPTION

Our program includes the installation, service and repair of air conditioning, cooling, heat pump systems and electrical theory and service. An integral part of this program involves green technologies including geothermal and solar hot water heating, indoor air quality and HEPA filtration, as well as air sealing techniques. Students are prepared to take the EPA Certification Test for the handling of refrigerants.

Students will take the OSHA-10 course in their first year of study with the goal of obtaining the OSHA-10 card. Second-year students will take the OSHA-30 course as well.

COURSE CONTENT

- | | |
|------------------------------------|--|
| Residential Air Conditioning | Electrical Theory |
| Marketing | Indoor Air Quality |
| Cooling and Heat Pump Systems | Freezers and Freezing Systems |
| Controls, Circuits and Instruments | Service Procedures and Troubleshooting |
| Efficiency Rating | Air and Duct Sealing |
| Commercial Refrigeration | Alternative Energy |
| Ice Machines | Energy Efficiency |
| Air Conditioning Systems | |

EDUCATIONAL OPPORTUNITIES

- Advanced College Standing
- Two Year Technical College
- Associate Degree or Certificate

CAREER OPPORTUNITIES

- | | |
|--------------------------------|-------------------------------|
| Service Technician | Heating and Air Conditioning |
| Service Manager | Mechanic/Installer |
| Installer's Helper | Manufacturer's Representative |
| Parts Manager | Salesperson |
| Small Business Owner/Operator | Labor Union Apprentice |
| Air Quality Control Specialist | |

SUGGESTED SUPPORTIVE COURSES

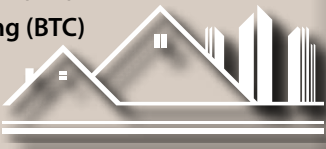
Algebra, Science

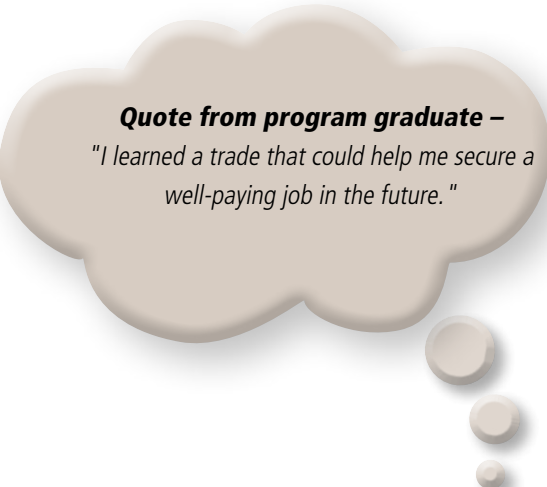
ADDITIONAL INFORMATION

- COSTS** Tools and equipment approximately \$300
- LENGTH OF COURSE**..... 1 or 2 years
- LOCATIONS** Gary D. Bixhorn Technical Center
Edward J. Milliken Technical Center
Harry B. Ward Technical Center
- CTE/ACADEMIC CREDIT** Please see chart on pages 4 and 5 for updated details
- INDUSTRY CERTIFICATION** Environmental Protection Agency (EPA) Clean Air Section 608 Certification
National Oil Heat Research Alliance (NORA), North American Technical Excellence (NATE®),
OSHA-10, OSHA-30

Architecture and Construction

- Heating, Ventilation and Air Conditioning (HVAC) (BTC, MTC, WTC)
- Introduction to HVAC (ICC)
- Carpentry, Residential Construction and Home Improvement (BTC)
- Facilities Maintenance (ICC)
- Plumbing and Heating (BTC)
- Electrical Trade and Alternative Energy (BTC, MTC, WTC)
- Carpentry (ICC, WTC, Southampton HS)
- Carpentry Exploration (IAC)





Quote from program graduate –
"I learned a trade that could help me secure a well-paying job in the future."





A career in **Law Enforcement** is a great investment in job security.

Law enforcement offers expanding opportunities from high tech to criminal justice. In this program, you will test your skills while discovering where your interests lie. Explore the procedures police utilize when making arrests, how the criminal justice system works, and how to collect crime scene evidence. Earn the opportunity to participate in a one-week course at the Suffolk County Police Academy and experience life as a police recruit. Eligible students may attain New York State Security Guard certification.

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: LAW ENFORCEMENT

COURSE DESCRIPTION

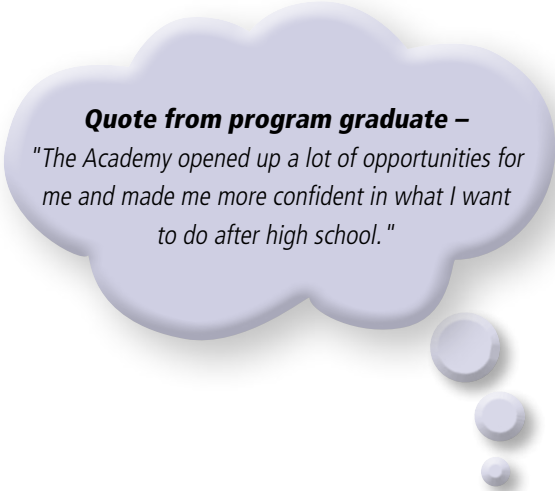
This is a broad-based program for students with an interest in criminal justice, law enforcement, public safety and other related legal careers. The program includes the study of civil and criminal law, providing a strong foundation for entry into the security field or for advanced training at a police academy or college. As a New York State Approved Security Guard school, students who qualify are provided an opportunity to pass the Security Guard certification exam, as well as the International Federation of Protection Officers (IFPO) exam. Students will also receive national telecommunicator (911) training. The IFPO certification is nationally recognized and is offered in the second year of the program, which also includes forensics and crime scene investigations.

COURSE CONTENT – First Year

Introduction to Criminal Justice
 Introduction to Law
 Introduction to Corrections
 Government Structure
 Physical Security Systems
 Patrol Techniques
 Code of Conduct/Ethics
 Emergency Planning
 Community/Public Relations
 Juvenile Justice System
 Personal Protective Equipment
 Weapons Safety

COURSE CONTENT – Second Year

Court Systems
 Risk Management Principles
 Crime Scene Procedures
 Investigative Techniques
 Defensive Tactics
 Substance Abuse
 Homeland Security
 911 Emergency Systems
 Forensics
 Internship
 Cyber Security



EDUCATIONAL OPPORTUNITIES

Associate Degree
 Bachelor Degree
 Police Academy

CAREER OPPORTUNITIES

Police Science	Court System
Police Officer	Security Officer
Police Dispatcher	Fire Services
Paralegal/Pre-Law	Corporate Security
Sheriff's Department	Executive Protection
Probation/Parole	Emergency Complaint Operator
Child Protective Services	Public Safety Dispatcher
Corrections	Military/Military Police
Forensic Science	Federal Law Enforcement

ADDITIONAL INFORMATION

LENGTH OF COURSE..... 1 or 2 years
 LOCATIONS Gary D. Bixhorn Technical Center
 Edward J. Milliken Technical Center
 Harry B. Ward Technical Center
 CTE/ACADEMIC CREDIT Please see chart on pages 4 and 5 for updated details
 INDUSTRY CERTIFICATIONS..... International Federation of Protection Officers (IFPO)
 NYS Security Guard
 Basic Life Support

**Law, Public Safety,
 Corrections and Security**

• Law Enforcement (BTC, MTC, WTC)



More
horse-
power
to you!

Do boats, quads or motorcycles rev your engine? Consider becoming a marine or motorsports technician. In this booming field, technicians are needed in specialty shops, repair facilities, marinas and dealerships. Engine and vehicle systems theory, vehicle maintenance, performance modifications, as well as factory-supported training through Yamaha Motor Corporation are featured in this course. Dyno tune your motorcycle, quad or boat engine for maximum performance and beat the competition!



Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: MARINE/MOTORSPORTS TECHNOLOGY

COURSE DESCRIPTION

Instruction will introduce and reinforce core knowledge in engine systems, drive systems, electrical and electronics systems, fuel systems, fabrication and engine machining. Students will learn how things are built, how they work and how to approach a repair. Students will have the opportunity to utilize our engine dynamometers to reinforce theory and prove performance modifications. Graduates will leave with the knowledge required to enter a broad array of the motorsports trades, including automotive, marine, motorcycle and heavy equipment. Take advantage of our highly successful work study program and gain hands-on industry experience with senior technicians while you're still in high school.

COURSE CONTENT

- | | |
|------------------------|----------------------------|
| Gasoline Engine Theory | Diesel Engine Theory |
| Troubleshooting | Cylinder Boring and Honing |
| Fuel Systems | Fuel Injection |
| Ignition Systems | Cooling Systems |
| Lubrication Systems | Electrical Systems |
| Charging Systems | Starting Systems |
| Valve Train Systems | Drive Systems |
| Fabrication | Welding/Machining |
| Shop Procedures | Equipment Maintenance |
| Shrink Wrapping | Winterization Procedures |

CAREER OPPORTUNITIES

- | | |
|------------------------|----------------------------|
| Marine Technician | Power Equipment Technician |
| Motorcycle Technician | Fabricator |
| ATV Technician | Welder's Assistant |
| Machine Shop Assistant | |

INDUSTRY SUPPORT

- Yamaha Motor Corporation
- Association of Marine Industries
- New York Marine Trades Association

EDUCATIONAL OPPORTUNITIES

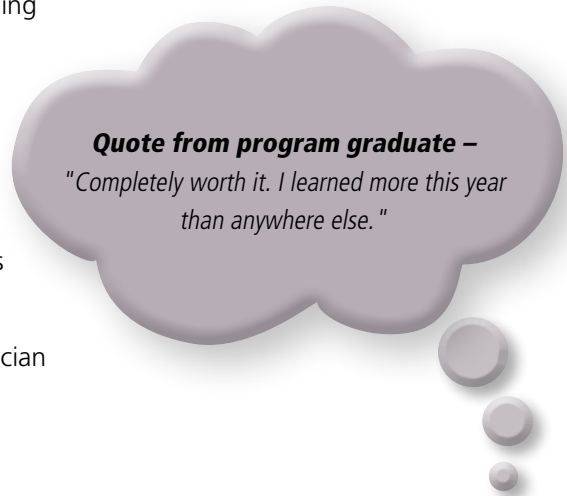
- Continuing Yamaha Module Training toward Master Technician
- Advanced College Standing
- Two-Year Technical College
- Associate Degree
- Graduates can immediately enroll in Yamaha Marine Service Skills Training

SUGGESTED SUPPORTIVE COURSES

- Algebra

ADDITIONAL INFORMATION

- COSTS Uniform and boots approximately \$75
- LENGTH OF COURSE..... 2 years
- LOCATION Gary D. Bixhorn Technical Center
- CTE/ACADEMIC CREDIT Please see chart on pages 4 and 5 for updated details
- INDUSTRY CERTIFICATIONS..... Yamaha Outboard Systems
Snap-On® Multimeter



Transportation, Distribution and Logistics/CTE

- Auto Body Repair and Car Customizing (MTC, WTC)
- Automotive Technology (MTC, WTC)
- Aviation/Professional Pilot Training (BTC)
- Marine/Motorsports Technology (BTC)





Nurse Assisting: be part of a **healthy** outlook!

Healthcare is the single largest growth industry in the nation. The need for kind, caring and compassionate individuals throughout the industry is enormous. Take your first step toward attaining New York State Nurse Aide certification while learning about the many opportunities available. Right now there are many very healthy reasons to choose a career in nurse assisting.

Advanced college/trade school credit is available to qualifying students from the following institution:



COURSE TITLE: NURSE ASSISTING

COURSE DESCRIPTION

This course is designed to prepare the student to be employed as a Nurse Assistant. Basic aspects of health care include procedures used in the care of patients such as: bathing, positioning, moving, transferring and monitoring vital signs. A hands-on approach with a laboratory component as well as practical applications of theory are emphasized. Clinical affiliations with various health care institutions further enhance this approach. This course is an entry level program in the field of nursing. This course prepares students for New York State Nurse Aide Certification.

Students who successfully complete Nurse Assisting and Clinical Medical Assisting courses may be eligible for Patient Care Technician certification.

COURSE CONTENT

Nutrition	Medical Terminology
Basic Nursing Procedures	Legal and Ethical Responsibilities
Personal Health and Wellness	Emergency Care
Communication Skills	Human Growth and Development
Anatomy and Physiology	Infection Control
Computer Applications	Health Care Systems
Geriatric Care	Careers in Health
Promotion of Safety	Preparing for the World of Work
Vital Signs	Qualities of the Health Care Worker

EDUCATIONAL OPPORTUNITIES

Practical Nurse (PN)	Associate and Bachelor Degrees
Registered Nurse (RN)	Masters Degree

CAREER OPPORTUNITIES

Nurse Assistant	Home Care
Rehabilitation Aide	Hospice
Recreation Assistant	Hospital
Skilled Nursing Facilities	Sub-Acute Care

SUGGESTED SUPPORTIVE COURSES

Algebra, Living Environment, Math

Students enrolling in this program are expected to show proficiency in math and science by scoring a minimum of 75% on the Algebra Regents and a minimum of 75% on the Living Environment Regents.

ADDITIONAL INFORMATION

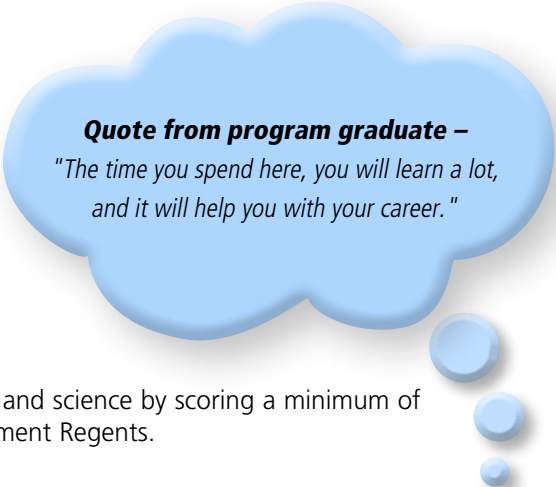
COSTS Uniforms \$70; workbook \$35; complete physical examination required; New York State Nurse Aide certification testing fee \$115, payable to New York State Commissioner of Health; all fees are approximate

LENGTH OF COURSE..... 1 year

LOCATIONS Edward J. Milliken Technical Center, Harry B. Ward Technical Center

CTE/ACADEMIC CREDIT Please see chart on pages 4 and 5 for updated details

INDUSTRY CERTIFICATION New York State Nurse Aide, Basic Life Support, Automated External Defibrillator



Health Science

- Introduction to Personal Training (ICC)
- Certified Personal Trainer (BTC)
- Clinical Medical Assisting (MTC, WTC)
- Dental Chairside Assisting (BTC)
- Nurse Assisting (MTC, WTC)
- Physical Therapy Aide (BTC)
- Practical Nursing (BTC)





A healthy
industry
you can
count on.

Physical Therapy Aides are responsible for aiding the Physical Therapist with a variety of tasks. Physical Therapists work with patients to optimize mobility and help prevent and treat injuries and disabilities. A Physical Therapy Aide is responsible for ensuring that a patient's visit with the therapist is productive and runs smoothly. Physical Therapy Aides are part of a growth industry with a robust job outlook over the next decade.

Advanced college/trade school credit is available to qualifying students from the following institutions:



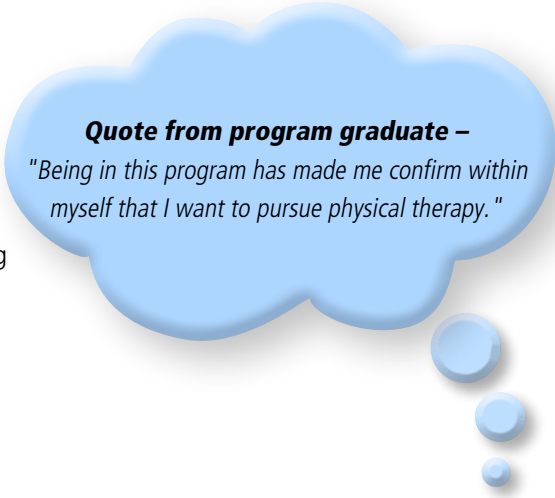
COURSE TITLE: PHYSICAL THERAPY AIDE

COURSE DESCRIPTION

Physical therapy is a growing part of the medical industry. Physical Therapy Aides are a crucial part of the rehabilitation team. They aid Physical Therapists in delivering quality care to patients by acting as a second pair of hands. Responsibilities of the Physical Therapy Aide include transporting patients from one therapy area to another, preparing and organizing the location for the patient's session, setting up any needed equipment, aiding with the patient's evaluation and treatment session, and fulfilling office and clerical duties. Students will learn theoretical concepts, practice skills and experience first-hand therapeutic intervention for patients in a clinical setting.

COURSE CONTENT

- Patient/Client Populations
- Anatomy and Physiology
- Medical Terminology
- Vital Signs
- Range-of-Motion Exercises
- Use of Canes, Crutches, Walkers, and other Assistive Devices
- Stair Training
- Hot Packs/Ice, Electrical Stimulation, Ultrasound and Kinesio Taping
- Strengthening Exercises
- Whirlpool Therapy–Use of Mechanical Lift
- Fitness, Nutrition and Weight Control
- Office Duties
- Sport-Specific Therapy, Return-to-Play



EDUCATIONAL OPPORTUNITIES

- Associate Degree
- Bachelor Degree
- Masters Degree
- Doctorate of Physical Therapy

CAREER OPPORTUNITIES

- Hospitals
- Physical Therapy Offices
- Schools for Children with Special Needs
- Home Health Care Agencies
- Nursing Homes
- Assisted Living Facilities

Health Science

- Introduction to Personal Training (ICC)
- Certified Personal Trainer (BTC)
- Clinical Medical Assisting (MTC, WTC)
- Dental Chairside Assisting (BTC)
- Nurse Assisting (MTC, WTC)
- Physical Therapy Aide (BTC)
- Practical Nursing (BTC)

SUGGESTED SUPPORTIVE COURSES

Living Environment, Physics

ADDITIONAL INFORMATION

- COSTS** Uniform approximately \$130; small fees for certifications in American Red Cross Adult & Pediatric AED, CPR and First Aid, American Red Cross Blood Borne pathogens, Narcan may apply; complete physical exam required
- LENGTH OF COURSE**..... 1 year
- LOCATION** Gary D. Bixhorn Technical Center
- CTE/ACADEMIC CREDIT** Please see chart on pages 4 and 5 for updated details
- INDUSTRY CERTIFICATION** Multiple American Red Cross Certifications





Make **connections!**

Plumbers, pipefitters, and steamfitters constitute one of the largest groups among the construction

occupations. Approximately 55% work for independent contractors while others perform maintenance work for industrial, commercial, and government employers or are self-employed. Job opportunities are expected to be very good, especially for workers with welding experience, and salaries in this profession are among the highest in the construction trades. Students completing this program will earn a NYCOSH certificate of completion and may qualify to attain the credential upon successful completion of the exam.

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: PLUMBING

COURSE DESCRIPTION

This program is designed for students interested in installing, servicing and repairing of domestic sanitation systems, water heaters and home plumbing systems. Students will also receive training on the latest trade-related green technology, as well as efficient appliances, retrofitting to increase water efficiency, and resource conservation.

The program uses OSHA standards as the foundation for workplace safety instruction, and students have the opportunity to earn their OSHA-10 card.

COURSE CONTENT

Installation of water heaters and controls
 Basic plumbing applications
 Planning work and developing material lists from sketches or building plans, isometric drawings and orthographic views
 Study of local and national plumbing codes and sanitary requirements
 Cutting, bending, threading and joining pipes according to specification
 Hydrostatic testing of assembled systems
 Fixtures for domestic and commercial establishments

Soldering, solvent welding of PVC and ABS plastic drainage piping, cast iron soil pipe, yarning and caulking no hub cast iron
 Math applied to plumbing and heating (trade math)
 Installation of plumbing fixtures, drains, waste and vent lines
 Planning and installation of natural gas and propane systems
 Service and repair of domestic plumbing fixtures and appliances
 Safe handling use and maintenance of industry grade power tools and equipment

EDUCATIONAL OPPORTUNITIES

Advanced College Standing Bachelor Degree
 Associate Degree or Certificate Two-Year Technical College

CAREER OPPORTUNITIES

Master Plumber Geothermal Technician
 Manufacturer Representative Water Technician
 Industrial Maintenance Mechanic Water Resource Specialist
 Utility Installer Plumber's Apprentice
 Water Conservationist Pipe Fitter/Steam Fitter
 Plumbing Supply Clerk Oil Burner Technician

SUGGESTED SUPPORTIVE COURSES

Algebra, Geometry, Physics, Technology

ADDITIONAL INFORMATION

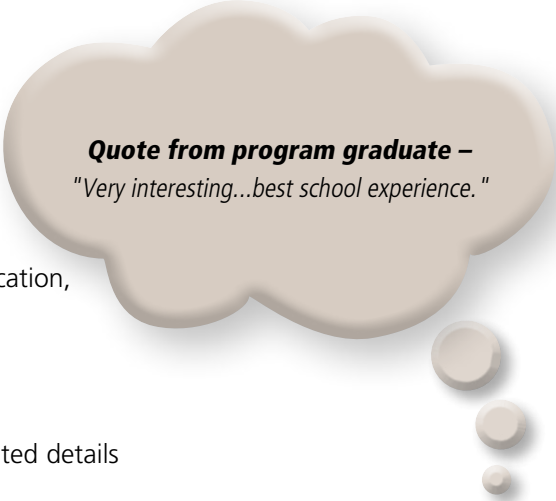
COSTS Work clothes \$65; \$59 for OSHA-10 certification, tools/equipment \$200; safety shoes \$50; all fees are approximate

LENGTH OF COURSE..... 1 year with option for second year

LOCATION Gary D. Bixhorn Technical Center

CTE/ACADEMIC CREDIT Please see chart on pages 4 and 5 for updated details

INDUSTRY CERTIFICATIONS..... OSHA-10





When **Caring** is your **Calling...**

...your **helping hands** will find a world of **opportunity.**



With people living longer and a “boomer” population that has come to expect high quality healthcare, nursing is one of the future’s most secure occupations. Besides a healthy job market, practical nurses enjoy personal rewards and a sense of self esteem. As a nurse, you will be responsible for the well-being of patients, teaching them how to achieve and maintain better health and brighter, more satisfying futures. In short, you will enhance the quality of human life. Secure career opportunities await you in hospitals and clinics, outpatient care centers, doctors’ offices, nursing facilities and in private home care.

Your helping hands will be doubly rewarded with the satisfaction of helping others coupled with the security of a promising future with unlimited opportunity!

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: PRACTICAL NURSING

All applicants must take and pass the nurse entrance exam: Test of Essential Academic Skills (TEAS) in the Spring of their junior year.

COURSE DESCRIPTION

This is a 17-month program (Level 1 and Level 2) that begins in the student's senior year. During the first year of the program, Level 1 students learn theoretical nursing concepts and basic nursing skills built on the principles of biological, physical and social sciences. Level 1 provides classroom, laboratory and clinical experiences with an emphasis on safe care of the adult client at a health-related facility. Level 2 of the program, beginning in September following high school graduation, is designed to build upon previous nursing knowledge and related theory with a focus on evidence-informed nursing practices using critical thinking and the nursing process. Level 2 classes are held at the Adult Education Center in Sayville and health-related facilities Monday through Friday 8:30 AM to 3:00 PM. Upon successful completion of 1,260 hours of instruction and program requirements, graduates are eligible to take the National Council Licensing Examination for Practical Nurses (NCLEX-PN).

COURSE CONTENT Level 1 – First Year

Fundamentals of Nursing – With Clinical Practice
 Nutrition
 Pharmacology
 Growth and Development
 Anatomy and Physiology
 Introduction to Professional Nursing and Ethics

COURSE CONTENT Level 2 – Second Year

Clinical Practice and Theory
 Medical-Surgical Nursing
 Psychiatric Nursing
 Obstetrical Nursing
 Gerontological Nursing
 Pediatric Nursing

EDUCATIONAL OPPORTUNITIES

Advanced College Placement Available
 Associate and Bachelor Degrees

CAREER OPPORTUNITIES

Hospitals/Hospices	Nursing Homes
Public Health Agencies	Private Homes
Physician's Offices and Clinics	Armed Forces
HMO	Community-Based Care Centers
Travel Nursing	Skilled Nursing Facilities



SUGGESTED SUPPORTIVE COURSES

Algebra, Regents English, Living Environment, Nurse Assisting in 11th grade, or Clinical Medical Assisting in 11th grade. Students enrolling in this program are expected to show proficiency in math and science by scoring a minimum of 80% on the Algebra Regents and a minimum of 80% on the Living Environment Regents.

ADDITIONAL INFORMATION

COSTS (Student/Parent Responsibility*)

Level 1 and Level 2:

Uniform approximately \$125
 Books..... approximately \$345 first year / \$260 second year
 Equipment approximately \$200 first year
 Background check..... approximately \$52*
 Random drug test approximately \$35*
 ATI Fundamentals of Nursing See program guidelines (second year only)

Level 1 only:

Complete physical examination**

LOCATION Gary D. Bixhorn Technical Center (Year 1)

CTE/ACADEMIC CREDIT Please see chart on pages 4 and 5 for updated details

Upon completion of the second year, students are eligible to take the National Council Licensing Examination for Practical Nurses (NCLEX-PN). Tuition for Level 1 is paid by the local school district enrolling the student with the usual Academy aid. Tuition for Level 2 will be the responsibility of the student and/or parent. Level 2 students are eligible for Federal Student Loans and possible Pell Grants. Note: Students must maintain a 75% grade average per subject listed in the course content and maintain satisfactory attendance.

All students will be subject to random drug testing and vaccination requirements of partner clinical sites

* Information to be provided

** Please note: students/parents are responsible for costs of uniforms, books, supplies, and current physical exam as listed above





Picture yourself!

Here's your chance to work in a professional creative studio while gaining valuable experience with real clients. Experience the satisfaction of building a professional portfolio using industry-standard equipment, including Nikon and Canon DSLR, Mirrorless and 360° cameras, as well as with professional lighting, and the most up-to-date software that Adobe Creative Suite offers. Successful students can access advanced standing and dual enrollment opportunities, resulting in reduced tuition and college transcripts, setting you up for success on your post-secondary pathway to college and career readiness. Picture yourself in an exciting future as you take the first step toward becoming a professional photographer!



Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: PROFESSIONAL PHOTOGRAPHY AND DIGITAL IMAGING

COURSE DESCRIPTION

The course provides students the opportunity to sharpen their professional eye and ready themselves for the world of professional photography. With an emphasis on camera techniques and exposure, composition and design, location and studio lighting, and digital imaging, students can translate their passion into a viable college and career path. Use current technologies from Nikon, Canon, Apple and Adobe™ (among others) to elevate your technical skills and expand your opportunities and post-secondary options, while focusing your perspectives on photographic history and critique, giving you a well-rounded foundation for fine art or commercial photography. Learn to work independently and as part of a creative team in ways that will inspire your future!

COURSE CONTENT

DSLR, Mirrorless and 360° Digital Cameras
 Industry-Standard Prime and Zoom Lenses
 Composition and Design
 Adobe Lightroom and Photoshop
 Lighting Equipment and Techniques
 35mm Cameras, Film Processing & Darkroom Printing
 Professional Portfolio Development

EDUCATIONAL OPPORTUNITIES

Associate Degree
 Bachelor Degree

CAREER OPPORTUNITIES

Studio or Photographer's Assistant	Advertising Photographer
News Photographer	Industrial Photographer
Portrait Photographer	Fashion Photographer
Photo Editor	Wedding Photographer
Photo Stylist	Fashion Stylist
Product Stylist	Photo Lab Technician
Photo Equipment	Sales Representative

SUGGESTED SUPPORTIVE COURSES

Algebra, Basic Art, Science

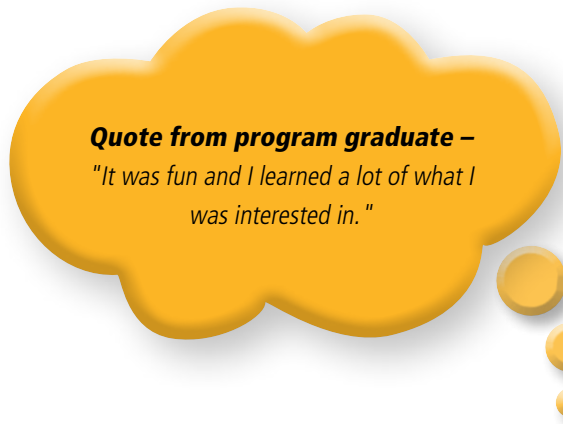
ADDITIONAL INFORMATION

COSTS Incidental supplies and reference material approximately \$100
 LENGTH OF COURSE..... 1 or 2 years
 LOCATION Gary D. Bixhorn Technical Center
 CTE/ACADEMIC CREDIT Please see chart on pages 4 and 5 for updated details
 INDUSTRY CERTIFICATION Adobe™ Certified Professional Visual Design Using Adobe Photoshop

Arts, A/V Technology and Communications

- Art, Design and Visual Communications (BTC)
- Audio Production (MTC, WTC)
- Professional Photography (BTC)
- Television, Video, and Digital Film Production (BTC)
- Computer Graphic Arts Technology (ICC)
- Digital Media Production (ICC)
- Fashion Merchandising and Design (BTC)







**Lights,
camera,
you're
in the
action!**

Be part of a growing industry with evolving technology and varied job opportunities. You will work both in front of and behind the camera, in studio and on location. This course emphasizes hands-on training, preparing you for the many career paths available in this field. Your creativity will soar as you work with professional cameras, lighting, and audio equipment and learn computer-based editing in a full studio setting. From commercials to music videos, live broadcasting, TV journalism and short films, you can produce it all!

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: TELEVISION, VIDEO AND DIGITAL FILM PRODUCTION

COURSE DESCRIPTION

This course involves all phases of television and film production including planning, shooting and editing. Students will learn techniques in studio production, electronic journalism and digital filmmaking. Working in our 30' x 40' studio, students produce network-style talk and news shows and promotional videos. In addition to working in the studio, students use professional cinema and field cameras, as well as sound and lighting equipment to create their own news packages, public service announcements, short films and documentaries. Students learn current industry practices through hands-on experience, including direct work for real-world clients, which prepares them for an entry level position and/or post-secondary education in the field.

COURSE CONTENT

Multi-Camera Studio Directing	Directing Talent
Video Switcher Operation	Non-Linear Editing
Master Control	Camera Operation
Composition and Framing	2-D Graphic Design
Field and Studio Lighting	Scripting and Storyboarding
Audio Console Operation	News Production
Microphone Use	Location Production
Communication Law	Basic Digital Film Production

EDUCATIONAL OPPORTUNITIES

Advanced College Standing
Associate and Bachelor Degrees

CAREER OPPORTUNITIES

Technical Director	Production Assistant
Camera Operator	Writer
Lighting Director	Social Media/Marketing
Floor Manager	Talent
Audio Technician	Maintenance Engineer
Video Operator	Grip
Video Editor	News Reporter
Field Producer	Assignment Desk Editor
Gaffer	Equipment Sales and Rental



ADDITIONAL INFORMATION

COST.....	Approximately \$50 for incidental supplies
LENGTH OF COURSE.....	1 or 2 years
LOCATION	Gary D. Bixhorn Technical Center
CTE/ACADEMIC CREDIT	Please see chart on pages 4 and 5 for updated details
INDUSTRY CERTIFICATION	Adobe® Premiere® Pro (year 1) and Adobe After Effects (year 2)

Arts, A/V Technology and Communications

- Art, Design and Visual Communications (BTC)
- Audio Production (MTC, WTC)
- Professional Photography (BTC)
- Television, Video, and Digital Film Production (BTC)
- Computer Graphic Arts Technology (ICC)
- Digital Media Production (ICC)
- Fashion Merchandising and Design (BTC)





Find your **bright spot** in heavy metal!

Welders work in the manufacture of fabricated metal products, transportation equipment, machinery, and architectural and structural metals. Welders can also be found in automotive restoration and in custom motorcycle work. Experienced welders can advance to positions as technicians, supervisors, inspectors and instructors, or may open their own repair shops. Others, especially those who obtain a bachelor's degree, may become welding engineers. Employment prospects are bright! Here's your opportunity to obtain the entry-level skills you need to begin a career in welding.

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: WELDING/METAL FABRICATION

COURSE DESCRIPTION

Entry level skills in electric ARC, TIG, MIG and Plasma ARC welding techniques are introduced. These techniques are developed in areas from heavy ferrous material to highly specialized light metals common to Long Island industry. Welding, according to specifications and blueprints, is emphasized.

COURSE CONTENT

Aircraft and Industrial Welding

MIG and TIG (Heli-ARC) Theory and Practice
Thin Gauge Metal, Aircraft and Sheet Metal Fabrication
Brazing Light-Gauge Sheet Metal
Sheet Metal Fabrication
Blueprint Reading, Layout and Measurement
Plasma Arc Cutting and Resistance Spot-Welding
ARC Welding in Sheet and Plate Fabrication

Structural Steel and Construction Welding

Oxyacetylene Welding and Brazing (Maintenance Welding Techniques)
Shielded Metal ARC Welding (Stick Electrode) using AC and DC Welding Machines (Construction Welding, Equipment Repair)
Pipe Welding
MIG and TIG Welding (Heavy-Gauge Steel Construction Application)
Manual and Semi-Automatic Flame Cutting
Layout Work and Welding to Measurement, Job Design
Plasma Cutting Techniques

EDUCATIONAL OPPORTUNITIES

Advanced College Standing
Associate Degree
Trade Schools

CAREER OPPORTUNITIES

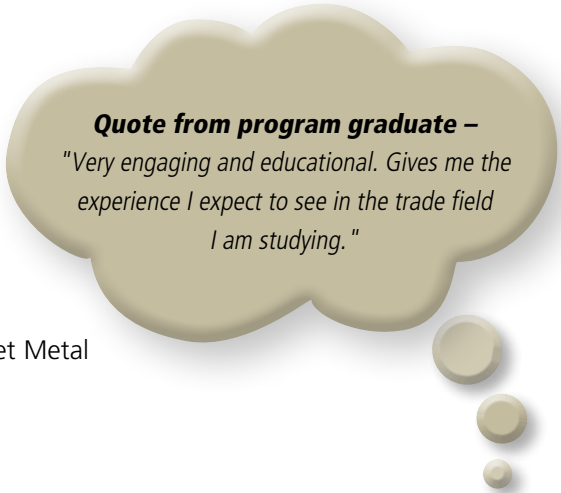
Machine Building	Railroad and Transportation
Aircraft Welder	Precision and Commercial Sheet Metal
Construction Welder	Welding Technician
Pipeline Welder	Welding Inspector
Ship Building	Welding Proprietor
Heavy Equipment Repair	

SUGGESTED SUPPORTIVE COURSES

Algebra, Mechanical Drawing, Metal Shop

ADDITIONAL INFORMATION

COSTS Approved footwear and clothing approximately \$300
LENGTH OF COURSE..... 1 or 2 years
LOCATION Edward J. Milliken Technical Center
CTE/ACADEMIC CREDIT Please see chart on pages 4 and 5 for updated details
INDUSTRY CERTIFICATION OSHA-10, OSHA-30 (optional)





Co-op, Internship, Job Shadow

Through dynamic school/business partnerships, carefully designed and supervised work-based learning experiences assist students in honing technical proficiencies and polish professional skills, giving them the essential edge to successfully compete in today's global and local workplace market.

WORK-BASED LEARNING

Students at The Academy can select from a wide array of school-to-career activities. Approved internships, job shadowing, apprenticeship preparation, clinical work experience and cooperative work experience provide students the opportunity to excel in their field of study.

CAREER COUNSELING services are provided through individual and group counseling that includes career decision-making, employability skills and personal adjustment. Communication with parents and district guidance counselors is also maintained. Additional guidance support services are provided to students with disabilities that have been mainstreamed into a program at The Academy.

COOPERATIVE WORK EXPERIENCE combines career and technical classroom study with paid productive work in a field related to the students' academic and career goals. Cooperative work experience enhances a student's technical, interpersonal and decision-making skills through a carefully designed and supervised training plan. Through a dynamic school-business partnership, cooperative work experience helps students develop the professional skills necessary to compete in today's challenging workplace. It is also sometimes referred to as work study.

JOB SHADOWING is a structured, unpaid work-based learning experience which allows students to shadow an employee during a specific event/activity in order to gain a greater awareness of the scope of the job.

INTERNSHIPS are structured, unpaid work-based learning experiences which allow students to intern for a limited period of time. Interning affords the student the opportunity to concurrently explore a career field, develop skills and network with professionals in the industry.

APPRENTICESHIPS are highly structured training programs, usually sponsored by labor organizations or private industry. Many courses prepare students who are interested in pursuing a certified apprenticeship after graduation. Some apprenticeship programs offer advanced standing.

SERVICE LEARNING usually refers to community-based volunteer projects conducted in collaboration with local agencies or non-profit organizations.

CUSTOMER SERVICE provides a simulated work environment within the school setting and involves "live work".

CAREER-RELATED PARTNERSHIP ACTIVITIES involve a collaborative relationship with a business/industry partner to provide students with work related experiences through mentoring, Junior Achievement and similar experiences.

WORKPLACE MENTOR is designated as the advocate for a particular student and who works in consultation with classroom teachers, counselors, related service personnel, and the employer of the student to design and monitor the progress of the school-to-work activities of the student.

SCHOOL-TO-CAREER TRANSITION services are available to all students who require assistance to successfully bridge the transition from school to the world of work. The content includes such areas as finding employment, filling out job applications, completing resumes, interviewing skills, appropriate work related attitudes and internship opportunities.



SkillsUSA

Champions *at* Work®



Find Your Future Here

All students upon graduation from High School will have the academic ability to persist and succeed in post-secondary education including corporate training, the military, apprenticeships, certificate programs and degree-bearing programs. Students will have the opportunity to possess:

- earning power in the form of an industry approved entry level certificate
- career ready practices embodied in employability profile
- a defined career pathway
- earned advanced standing and/or dual credit in a post-secondary institution

NON-DISCRIMINATION STATEMENT

Eastern Suffolk BOCES does not discriminate against any employee, student, applicant for employment, or candidate for enrollment on the basis of sex, gender, race, color, religion or creed, age, weight, national origin, marital status, disability, sexual orientation, gender identity or expression, transgender status, military or veteran status, domestic violence victim status, genetic predisposition or carrier status, or any other classification protected by Federal, State, or local law. This policy of nondiscrimination includes: access by students to educational programs, student activities, recruitment, appointment and promotion of employees, salaries, pay, and other benefits. ESBOCES also provides equal access to the Boy Scouts and other designated youth groups. ESBOCES fully complies with all applicable rules and regulations pertaining to civil rights for students and employees (e.g., Title IX of the Education Amendments of 1972, §504 of the Rehabilitation Act of 1973, Titles VI and VII of the Civil Rights Act of 1964, Dignity for All Students Act, §303 of Age Discrimination Act of 1975, the Americans with Disabilities Act of 1990, and the Boy Scouts of America Equal Access Act of 2001). Inquiries regarding the implementation of the above laws should be directed to either of the ESBOCES Civil Rights Compliance Officers at ComplianceOfficers@esboces.org: the Assistant Superintendent for Human Resources, 631-687-3029, or the Associate Superintendent for Educational Services, 631-687-3056, 201 Sunrise Highway, Patchogue, NY 11772. Inquiries may also be addressed to the Office for Civil Rights at the US Department of Education, 32 Old Slip, 26th Floor, New York, NY 10005, 646-428-3800, OCR.NewYork@ed.gov.

NOTES

NOTES

“I am CTE ... ask me why I'm here.”



Quote from program graduate –
"When I walked into the classroom, I just felt like I belonged here. I felt like this is where I am supposed to be."

Kellcia Yap
Student, Chairside Dental Assisting, Patchogue-Medford UFSD

Quote from program graduate –
"To be in a classroom with other people who know what I'm actually talking about is really fulfilling."



Joseph Mallimo
Student, Auto Body, Connetquot CSD



Quote from program graduate –
"The classes are really in-depth. Both of my instructors helped us with college and applying for scholarships and discussed other options as well."

Hunter Levine
Student, Culinary Arts, Sachem CSD



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