

n a s s a u
BOCES

**REGIONAL SCHOOLS AND
INSTRUCTIONAL PROGRAMS**

2022-2023 CATALOG AND ENROLLMENT HANDBOOK

**for DISTRICT ADMINISTRATORS
and GUIDANCE COUNSELORS**

ADULT EDUCATION

•
**ALTERNATIVE
EDUCATION PROGRAMS**

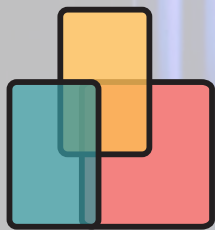
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**CAREER & TECHNICAL
EDUCATION PROGRAMS**

•
SUMMER PROGRAMS

***make your passion
your career!***



www.nassauboces.org/RSIP



LONG ISLAND
HIGH SCHOOL
FOR THE **ARTS**

The **Long Island High School for the Arts** is a Career and Technical Education (CTE) school. The New York State Department of Education has approved certification in the following pathways:

- **Performing Arts**
- **Visual and Media Arts**
- **Production and Managerial Arts**
- **Science Carpentry**
- **Game Design**
- **Sonic Arts**
- **Expressive Arts Therapy**
- **Multimedia Journalism**

Students will also complete 54 work-based learning hours.

Long Island High School for the Arts is a Nassau BOCES program.



WELCOME

to the Department of Regional Schools and
Instructional Programs (RSIP) at Nassau BOCES

It is my pleasure to introduce you to all the wonderful programs that Nassau BOCES RSIP has to offer for both Adult and K-12 students. This catalog was developed specifically for District Counselors and Administrators, so that we could provide you with the best information to support students and your school communities.



We are committed to working with your District to provide quality instruction for “our” students and to support ESSA accountability for graduation, the College, Career & Civic Readiness index, CDOS credential, 4+1 and so much more! The catalog was designed to help make the process of selecting and applying for RSIP programs as seamless as possible.

Feel free to get in touch with us (check out our contact information on pages on 2 & 3). You can also check out our course catalogs online at www.nassauboces.org/RSIP.

Sincerely,

A handwritten signature in black ink that reads "Carla Theodorou".

Dr. Carla Theodorou

Executive Director

Department of Regional Schools and Instructional Programs

Regional Schools and Instructional



Dr. Carla Theodorou
Executive Director

ctheodorou@nasboces.org

516-396-2390

George Farber Administrative Center,
Garden City



Dr. Desiree Williams
Assistant Principal, Barry Tech

dwilliams1@nasboces.org

516-622-6804

Joseph M. Barry Career & Technical
Education Center, Westbury



Judith Hynes
Assistant Director

jhynes@nasboces.org

516-396-2249

George Farber Administrative Center,
Garden City



Madelaine Hackett
Principal, GC Tech

mhackett@nasboces.org

516-604-4210

Joseph M. Barry Career & Technical
Education Center, Westbury



Peter Dalton
Principal, Barry Tech

pdalton@nasboces.org

516-622-6801

Joseph M. Barry Career & Technical
Education Center, Westbury



Caitriona O'Neill
Assistant Principal, GC Tech

coneill1@nasboces.org

516-604-4215

Gerald R. Claps Career & Technical
Education Center, Levittown



Dr. William Poll
Assistant Principal, Barry Tech

wpoll@nasboces.org

516-622-6805

Joseph M. Barry Career & Technical
Education Center, Westbury



Dr. Christine Rogusky
**Principal, Long Island High School
for the Arts**

crogusky@nasboces.org

516-622-5666

Long Island High School for the Arts,
Syosset



Nafesa Khan
Assistant Principal, Barry Tech

nkhan@nasboces.org

516-622-6806

Joseph M. Barry Career & Technical
Education Center, Westbury



Erica Giglio
**Assistant Principal, Long Island
High School for the Arts**

egiglio@nasboces.org

516-622-5670

Long Island High School for the Arts,
Syosset

Programs **LEADERSHIP TEAM**



Kellie Cook McLaurin
*Principal, Twilight Alternative
High School Programs, HSE/TASC
Testing, Regional Summer Schools*

kmclaurin@nasboces.org

516-396-2365

George Farber Administrative Center,
Garden City



Kathleen Maffucci
*Employment Supervisor, Career &
Employment Center*

kmaffucci@nasboces.org

516-622-6861

Joseph M. Barry Career & Technical
Education Center, Westbury



Christine Fleming
*Program Coordinator, Twilight
Alternative High School Programs,
Transition Coordinator, Regional
Summer Schools*

cfleming@nasboces.org

516-396-2330

George Farber Administrative Center,
Garden City



Lisa Carboy
*Assistant Principal, Adult Learning
Center*

lcarboy@nasboces.org

516-622-5632

Adult Learning Center, Levittown



Michele Cohen
Principal, Adult Education

mcohen1@nasboces.org

516-622-6870

Joseph M. Barry Career & Technical
Education Center, Westbury



Regina Farinaccio
*Assistant Program Coordinator,
Parent Child+*

rfarinaccio@nasboces.org

516-622-6807

Joseph M. Barry Career & Technical
Education Center, Westbury



Brad Slepian
Assistant Principal, Adult Education

bslepian@nasboces.org.

516-622-6901

Joseph M. Barry Career & Technical
Education Center, Westbury

***make your passion
your career!***

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CTE OFFERS PROGRAMS AT



BARRY TECH

1196 Prospect Avenue
Westbury, NY 1150
516-622-6800

Our most well-known career and technical education high school, Barry Tech, is housed in the Joseph M. Barry Career and Technical Education Center. The campus is comprised of close to 200,000 square feet on 13.4 acres located in Westbury. The state-of-the-art facility includes trade shops, computer labs, audio and video studios, salon settings and a fully equipped commercial kitchen and culinary space. One of the largest CTE spaces in New York State, Barry Tech is set to prepare students to succeed in over 40 different career paths.

Faculty and staff work closely with our industry partners to continually improve and keep up with industry standards in each profession. Our industry partners provide support for master classes, residency programs, internships and other work-based learning opportunities and often come to our classrooms as guest speakers.

Students attend for 2 ½ hours for either an A.M. or P.M. session, while attending their home high schools for the other half of the day.

A.M. session: 7:50-10:20 a.m.
P.M. session: 11:50 a.m.-2:20 p.m.



GC TECH

150 Abbey Lane
Levittown, NY 11756
516-604-4201

Housed in the Gerald R. Claps Career and Technical Education Center in the former Levittown Memorial High School building, GC Tech's almost 40,000 square feet of CTE learning space also contains state-of-the-art classroom settings. They include two full automotive and cosmetology shops, HVAC/Plumbing, construction electric shops, Police Science, EMT, and Medical Assisting Labs. All classes are equipped with the necessary tools to prepare students for their prospective professions.

Faculty and staff work closely with our industry partners to continually improve and keep up with industry standards in each profession. Our industry partners provide support for master classes, residency programs, internships and other work-based learning opportunities and often come to our classrooms as guest speakers.

Students attend for 2 ½ hours for either an A.M. or P.M. session, while attending their home high schools for the other half of the day.

A.M. session: 7:00-9:35 a.m. (Cosmetology only)
All other classes in A.M. session run 7:05-9:35 a.m.
P.M. session: 11:00 a.m.-1:35 (Cosmetology only)
All other classes in P.M. session run 11:00 a.m.-1:30 p.m.

THREE EXCITING CAMPUSES



LONG ISLAND HIGH SCHOOL FOR THE ARTS (LIHSA)

239 Cold Spring Road, Syosset, NY 11791
516-622-5678

The LIHSA campus is specially designed to support the school's mission of educating the next generation of the creative workforce. The school boasts almost 40,000 square feet across three buildings and an outdoor courtyard. Housed within the Rosalind Joel Conservatory for Music and Dance building are four dance studios, a 350-seat theatre, complete with lighting and sound equipment, two smaller black box theatres, an audio recording studio and various practice and classrooms. In the other building there is a film editing room, dark room, digital music space and carpentry shop for set design.

Faculty and staff work closely with our industry partners to continually improve and keep up with industry standards in each profession. Our industry partners provide support for master classes, residency programs, internships and other work-based learning opportunities and often come to our classrooms as guest speakers.

Students attend for 2 ½ hours for either an A.M. or P.M. session, while attending their home high schools for the other half of the day.

A.M. session: 8:00-10:30 a.m.

P.M. session: noon-2:30 p.m.

Each session is comprised of two periods A and B.
Period A runs for 1.5 hours and Period B runs for 1 hour.

LIHSA provides a community of peers, critical mentors, and networks of professionals. Through projects, residencies and field trips, students have regular engagement with working professionals. The creative journey is personal, but also shared, and the interactions that students have with staff and each other feed their learning. LIHSA's campus is specially designed to support the school's mission of educating the next generation of the creative workforce. Our 38,000 square feet across three buildings are filled with professional workspaces. There are four dance studios on campus, a larger theatre that holds 350 audience members with lighting and sound equipment, two smaller black box theatres, three audio recording studios, numerous classroom spaces with cutting-edge software programs, art studios, film editing room, dark room, digital music space and a carpentry shop for scenic design. A television studio is planned for the 2022-2023 academic year.

Work-Based Learning Experiences

Barry Tech, GC Tech & LIHSA students have the opportunity to reinforce and apply what they learn in the classroom in real-world work programs. All programs follow the guidelines established by the New York State Departments of Education and Labor, and are supervised by a certified work-experience teacher-coordinator.

Cooperative Occupational Educational Program (Co-Op):

Eligible second-year students may be recommended by their teachers to join the Co-Op. They will follow an approved, supervised training plan, applying classroom learning, while earning wages and work experience.

Internship Program:

Eligible 1st- and 2nd-year students can participate in this non-paid, work-based program in order to gain valuable work experience.

Clinic:

This is a required non-paid, teacher-supervised, work-based group-learning activity. Students participate in on-the-job training and instruction in a real-world, supervised clinical setting. A physical and immunizations are required.

Worksite Tours, Master Classes and Shadowing:

Students visit business and industry sites or attend professional trade events. Some spend time shadowing an employee to increase understanding of a specific job and observe the work environment.

Partnerships with Employers

At the very heart of Barry Tech, GC Tech and LIHSA are the partnerships with business and industry that help to direct our curriculum, ensure our equipment and facilities are up-to-date, and mentor students in work-based learning programs. They also give scholarships and awards, and hire graduates. See the list of partnerships on the following pages.

PARTNERSHIPS WITH EMPLOYERS

3D Industrial
AAPTE
AAR Aircraft Components
Abalene Plumbing & Heating, Inc.
ACCESS-VR
Access Center
AccuHealth Medical Group
Adelphi
Advanced Auto Care
Advantage Toyota
Adwar Video
AHRC
Alan R. Dorfman, DDS
Allen Schwartz, DDS
All Shore Plumbing
All Star Physical Therapy
American Airpower Museum
American Ballet Theatre
American Community Bank, V.P.
American Culinary Federation Long Island Chapter
American Heart Association
American Welding Society
Andy Friedman, The New Yorker Illustrator
Animal Care Center of Plainview
Animal Hospital of Roslyn
Anteri Brothers Meat
Anthony Belmonte Plumbing & Heating
Antonio Casanova, DDS
Anze Suspension
Apprenticeship Connections
Aric Signs & Awnings
Art Institutes
Assisi Veterinary Hospital
Audio Engineering Society
Autologic, US
Autosport Designs
AVF Dental
Baldwin Animal Hospital
Bay Park Marine Service
Beasley Media Group
Bellmore Physical Therapy
Bellmore United Methodist Nursery School
Bellmore Veterinary Hospital
Ben Hagari, Filmmaker
Bethany House
Bethpage Nursery School
Big Valley Nursery & Power Equipment
Bita Mosleh, DDS
Blessed with Friends Childcare
BMW of Freeport
BMW of Oyster Bay
Bobbi and The Strays
Boilermakers Local No. 5
BRG Electric
Broadway Garage
Broadway Veterinary Hospital

Brookville Center for Children's Services
Buckley School
Campaign of Councilman Bruce Blakeman
Cardinal Health
Carillon Nursing & Rehabilitation Center
Carousel Day School
Castle Collision Centers
CA Technologies
Center for Science Teaching and Learning
Centris Group
Century General Contractors, Inc.
Chief Equipment
City of Long Beach, Youth & Family Services
CM Richey Electrical Contractors, Inc.
Cold Spring Hills Center for Nursing & Rehabilitation
Colvin Auto Parts & Machine Shop
Competition Auto
Complete Quality Electric
Con Edison
Connie Collura, DDS
Cook Industries Inc.
Cornell Cooperative Extension
Corvette Repair Inc.
County Wide Group Investigative Solutions
CPR Cell Phone Repair Long Island
CTE Technical Assistance Center
CUNY Hostos Community College
Curtiss-Wright/Target Rock
Custom Metal Fabrications
D & D Auto Clinic
Dan Korneff Audio
Danoff Dental & Associates, LLP
Debbie Regan Locations, Ltd.
Delta Airlines
Donaldson Acoustics Co, Inc.
Dotworks
DPR Scrap Metal
Dr. Barbaruolo, DDS
Dr. Richard Pashayan
Dr. Vanessa Troise
Dr. Winger Orthodontics
Dream Car Restorations NY
Dream Recording Studios L.L.C.
DRMA Electric
Duffy Electric
East Meadow Medical Office
Edgard Rayans, DDS
Electrical Training Center, Inc.
Elizabeth Mauro
Equinox
Eric Fisher, DDS
Estee Lauder
Evolution Design & Signs

Exploring the Arts, Inc. (ETA)
FAA Air Traffic Control JFK Airport
FAA-AVSED Aviation & Space Ed Program
Family Bagels of Plainview
Fantastic Fabrics & Promotions
Farmingdale State College Aviation Flight Center
Fashion Institute of Design & Merchandising
FDR Services
Fidel Abreu-Benitez, DDS
Five Towns College
Forest Hills Financial Group
Franklin Early Childhood Center
Frank's FNT Auto Repair
Fraternal Order of Police
Freeport High School Security Dept.
Friedberg JCC
Frills & Things
Front Street Muffler, Tires & Auto Repair
Gabrieli Trucks
Game Builders Academy at Hofstra University
Garden City Hotel
Garden City Jeep, Dodge, Chrysler, RAM
Garden City Nursery School
Garden City's Garage
Garden OB/GYN
Gary Nadler, DDS
Gelfand, Rennert & Feldman, Joel Foundation
Getty Express Lube
Glen Cove Child Care Center
Glen Cove City Hall
Gold Coast Studios
Goodyear
Grace Episcopal Day School
Grand Prix Jeep Subaru
Greater NY Automobile Dealers Association
Greenvale Electric Supply, Corp.
Gregoris Motors
Gregoris Nissan Subaru
GymGuyz
Habitat for Humanity in Nassau County
Harbor Child Care Centers
Hassett Ford
Hauppauge Industrial Association
Health Solutions PT
HealthTrax
Helen Fastow
Herald Community Newspapers/Richner Communications
Herrmann Dental Associates
Hewlett Animal Hospital
High Potential Electric, Inc.
Hollywood East Entertainment
Home Goods

Honda City
Horseability
House of Laurence
Hunting Horse Farm
IBEW Electricians Union Local 25
Inch By inch Childcare Center
Infiniti of Manhasset
Intention Films and Media L.L.C
Intercommunity Nursery School
Ironworkers Local 40 & 361
Island Park Animal Hospital
Island Rehabilitation Associates
Island Sports Physical Therapy
Islip TV LLC, d/b/a MyLITV
J & K Service Station
J&M Auto Repair
Jarro Building Industries Corp.
Jersey Mike's
Jessica Meltzer
JetBlue Airways Corp.
Jiffy Lube
JM Basile Electric
Joel Foundation
Joseph Buono, DDS
Junior Achievement
JVC Auto Collision
Kassie's Playhouse
Keri Coach Works
Kerianne Meehan
Kidd Collision
Kiddie Junction Preschool
Kiddie Kollege Preschool
Kidds on Park Pediatric Dentistry
Kids Campus
Klebnaoff Attorneys
Laura Sotomayor, DDS
Law Offices of Aaron I. Katsman, P. C.
Learn & Play Center
Leeper Marriage & Family Therapy
Legend Nissan
Lehman College
LEIOC Farmingdale
Levine Singh LLP
Levittown Animal Hospital
Levittown Ford
Lexus of Massapequa
Lexus of Rockville Centre
Liffco Power Equipment
Little Angel Chris Daycare
Little Gardens Childcare
Little Saints' Preschool
Local Union 28 Apprentice Training Center
Long Beach City Manager's Office
Long Beach Police Dept.
Long Island Alzheimer's Foundation
Long Island Aviators
Long Island Blood Services
Long Island Children's Museum

Long Island Community Foundation	Nassau County Association of Plumbing, Heating and Cooling Contractors	Plumbing Heating & Cooling Contractors	Sugar Creations
Long Island Contractors Association	Nassau County Auxiliary Police	Port Washington Children's Center	Sunrise Animal Hospital
Long Island Family Dental Care	Nassau County Bar Association	Preschool Center at Barry Tech	Sunrise Volkswagen
Long Island Gasoline Retailers Association	Nassau County Department of Public Works	Pretty in a Minute	Super Cuts
Long Island International Film	Nassau County Family Court	Printing Emporium	Sweet Karma
Long Island Nets	Nassau County Film Office	Print Station NY	Synergy Fitness Clubs
Long Island Veterinary Specialists	Nassau County Medical Center	Professional Physical Therapy	Systematic Auto Service
Long Island Video Enterprises LIVE	Nassau County Office of Emergency Management	ProHealth Care Associates LLP	Tackapausha Museum and Preserve
Lynn Summer, Consultant	Nassau County Office of the Aging	PSEG Long Island	Tatum J Brogan PSC Inc.
Madona Cole Originals	Nassau County Police Athletic League	R.A. Krendel Contracting	Teaching Learning Caring Day Care
Malverne High School Security Dept.	Nassau County Police Dept.	Rallye BMW	Thady Quill Farm
Manning Imports	Nassau County Public Safety Center	Rallye Lexus	The Arbor
Manny Roberts Hair Replacement & Wigs	Nassau County SPCA	Rallye Mercedes Benz	The Central Orthopedic Group
Maplewood School	Nassau Electric League	Rallye Motors	The Children's Greenhouse FSA – Nassau Community College
Marathon Physical Therapy	Nassau University Medical Center – Physical Therapy Dept.	Ralph Covelli	The Community Nursery School
Marc Formisano	National Grid	Reddy Care Physical Therapy PC	The Geller Group
Maria Tronti	Neat & Complete Barbers	Reinhard Early Childhood Center	The Music Academy of Garden City
Marine Bulkheading Inc.	NEFCU	Reyes & Reyes Physical Therapy	Therapeutic Solutions Physical Therapy
Marotta Dental Studio, Inc.	Network for Teaching Entrepreneurship (NFTE)	Robert Chevrolet	The Wort
Massapequa Pet Vet	Newman Orthodontics	Rock Hard Atelier	Tilden for Brakes Car Care Center
Massapequa Reformed Church	New York Blood Center	Rockville Centre GMC	Tire Discount Pros
Maureen A. Tredwell, DDS	New York Institute of Beauty	Roslyn Village Veterinarian	T J Maxx
Mavis Tire	New York Sports & Physical Therapy Institute	Runway Couture	TLC @Brookside
McCalls Pattern	New York State Police	RW Truck Equipment, Inc.	TLC Daycare Center
Meadowbrook Collision Inc.	New York Times	Safe Child Learning Center	Tom's Brake & Auto Repair
Meineke	Nicky T's Automotive Craftsman	Salon Provocativa	Tony Bennett Foundation
Mendoza Chiropractic Office, PC	Nissan of Garden City	Sands Point Preserve	Total Performance Physical Therapy
Menekshe Boutique	Nissan of Westbury	Saporito Contracting, Inc.	Town of Hempstead
Mercedes-Benz of Rockville Centre	No Frills Tire Wholesale	SAV Truck Center, Inc.	Town of Hempstead Animal Shelter
Merrick Dodge Chrysler Jeep	Northeast Carpenters Apprenticeship Fund	Schwartz Institute for Physical Therapy & Sports Performance	Town of North Hempstead Animal Shelter
Metal Tek	North Shore Animal League America	Schwing Electrical Supply Corp.	Toyota of Massapequa
MGA Golfworks	Northwell Health	Seaford Ave. Corp.	TRACON NAS Operations
Michaels Electric	Northwell Health Engineering Dept.	Security Dodge Chrysler Jeep	Trader Joe's
Microsoft Garden City	Northwell Health Volunteer Services Dept.	Senator Jim Gaughran's Office	U.S. Customs & Border Protection
Mid Island Animal Hospital	NYPD Aviation Floyd Bennett Field	Sheetmetal Workers International Association Local Union No. 137	UA Plumbers Local Union No. 200
Mid Island Y JCC Preschool	NY Spine	Signarama	Uniondale Chiropractic Office, PC
Mill-Max Manufacturing	NYS Senate District Office, 7th District	Signs of Spring	United Airlines
Millennium Honda	Office of the County Executive	Silverspoon Animation Studio/Five Towns College	United Cerebral Palsy Association of Nassau County
Millennium Toyota	Old Navy	SMK Arts	Universal Home Services
Mindset Productions	Omnibus Fashion	Snap on Industrial	USMC
Mineola Animal Hospital	Orthopaedic Care of Long Island, PC	Sonic Car Wash & Lube	Valvoline
Mineola Awnings & Signs	Pain and Rehabilitation	Sonic Debris Recording Studio	Verizon
Miss Jackie Designs	Our Lady of Peace Preschool	South Bellmore Veterinary Group	Video Specialists of New York, Inc.
Molloy College	Oyster Bay Railroad Museum	South Shore Country Day School	Village Bridal by Omnibus
Motorworks	Panavision New York	South Shore Hyundai	Volunteer for Wildlife, Inc.
MTA NYC Transit	Panera Bread	SPCA Suffolk County Officers	Waldorf School
MTA Police Dept.	Peak Performance	Spectrum Physical Therapy & Chiropractic	Wales-Darby Inc.
Nancy Ciminera, DDS	Pediatric Healthcare of Long Island	St. Joseph Hospital	Wantagh Mazda
Nassau BOCES – Carman Road School	Penn Collision	St. Rose of Lima Nursery School	WellLife Network
Nassau BOCES – Communications Office	Penn Toyota	STEP Academy Preschool	Westbury Jeep, Chrysler, Dodge
Nassau BOCES – Customer Care Center	PEP Boys	Steven Taub Productions	Westbury Tender Loving Daycare Center
Nassau BOCES – Graphic Arts and Printing	PETCO	STS Tire	Westbury Toyota Scion
Nassau BOCES – Human Resources	PKL Physical Therapy	Suburbia Truck & Trailer	Winthrop University Hospital
Nassau BOCES – Outdoor Education	Plainview Physical Therapy & Sports Rehabilitation	Suffolk County Medical Examiner	Woodbury Center for Health Care
Nassau BOCES – Transportation Services		Suffolk County Police Academy	Woodmax Automotive
Nassau Candy		Suffolk County Police Department Special Patrol Bureau	Workforce Development Institute
Nassau Community College		Suffolk County Police Dept.	World Gym
			Wounded Warrior Project
			Yumi Kim

REGISTRATION INFORMATION FOR CTE COURSES

Who Should Apply

Tenth grade students are encouraged to visit Barry Tech, GC Tech & LIHSA anytime during the school year, but early enough to make a decision to apply by April. In many cases we will accept ninth graders. Some classes fill up quickly.

Barry Tech, GC Tech & LIHSA CTE General courses are for students who:

- Have completed graduation requirements on schedule for the grade they are in high school (on target to graduate).
- Work well in a class of 20-25 students, work independently and in small groups (teams).
- Plan to seek further education or go to work in their chosen CTE field.

CTE Skills courses are for students who:

- Require more individualized instruction and/or special instruction as a result of an IEP, 504 Plan or LEP.
- May be headed for a CDOS Credential.
- Can work well in a 15/1/1 setting.
- Plan to seek further education or go to work in their chosen CTE field or college.
- Require coordination with a district Transition Plan and Committee on Special Education.
- May attend for more than two years in order to fulfill graduation, curriculum and/or specific CTE requirements.
- Require additional application materials and an interview to be accepted.



When to Apply

New applications accepted beginning Mid-February 2022

Current Juniors returning for their second year as seniors at Barry Tech, GC Tech or LIHSA need not apply. Their home school counselors will be contacted to confirm enrollment for the continuing year.



IMPORTANT NOTE REGARDING REMOTE ACCOMMODATIONS DURING THE COVID-19 PANDEMIC

Due to the hands-on nature of our programs, Nassau BOCES offers CTE programs for fully in-person instruction. While a remote accommodation can be made for serious medical conditions, counselors and parents need to know that this is not the equivalent of our in-person instructional program. We do not recommend remote accommodation for CTE students - this could jeopardize a student's ability to take dual enrollment college credit coursework, pass technical assessments and/or earn the Technical Endorsement on the student's diploma.

How to Apply

The home school counselor can start the online application process for Nassau BOCES RSIP programs at Barry Tech, GC Tech and LIHSA online. Counselors will be asked to submit 1st and 2nd choices for programs and locations.

The admission process involves a comprehensive review of each student's school records, including attendance, transcripts, report cards, discipline record, test scores, comments from school personnel, and health records. LIHSA has an audition/portfolio process.



HOME SCHOOL COUNSELORS...



...APPLY ONLINE AT

www.nassauboces.org/districtportal

ACADEMIC COURSES

Attend for 2 years and you can earn academic credits for the fourth year of English, third years of math, science, physical education and/or health.

Courses differ; refer to the "credit" box for each course for details. For information specific to each building, please reach out to one of our counselors.

Health Education

This half-year course is designed to help students learn and incorporate a variety of life skills that will enable them to solve problems, build positive relationships and maintain healthy lifestyles.

The application of these skills will promote good physical, mental and social well-being.

Students earn 3 1/2 credits for their Career and Technical Education course and 1/2 credit for Health Education.

Physical Education

Students will be taken on a first come, first serve basis. Students earn 3 1/2 credits for their Career and Technical Education course and 1/2 credit for Physical Education. This is a full-year course.



GRADUATION REQUIREMENTS

2-Year Enrollment:

All two-year students may receive up to 8 CTE credits. In addition, if the following credits are used in the course where they are offered, the 8 credits will be reduced by the number of credits below* and may be distributed as follows:

- 1.0** English (required 4th year in lieu of English 12)
- 1.0** Math (required 3rd year)
- 1.0** Science (required 3rd year)
- 0.5** Career and Financial Management
- 0.5** Social Studies
- 0.5** Health

*for NYSED approved and certified programs only

Second Language Requirement Waiver:

Students who complete a 5-unit sequence in a CTE subject can use that credit in lieu of the 3-unit second language sequence.

Certificates of Completion:

All graduates who have successfully completed a CTE course (of up to 450 hours for a 1-year course, or up to 900 hours for a 2-year course) can enter the workplace and/or continue studies and receive a Certificate of Completion.

Career and Financial Management (CFM):

This course is a requirement for all CTE programs. Students must complete a series of CFM proficiency exam during the school year. Credit is awarded by district request.

The NYS CDOS Commencement Credential:

Students may be able to earn a Career Development and Occupational Studies (CDOS) Commencement Credential after 2 years. Many of our skills courses meet the criteria for this credential which recognizes each individual student's preparation and skills for post-school employment.

CTE Graduation Pathways

The New York State Board of Regents has approved a new pathway for graduation for high school students. Students can now complete 4 required Regents exams and substitute the 5th Social Studies exam with a Career and Technical Education-approved exam.

- The CTE program must be at least 3 credits in length, and meet all the NYSED requirements for a CTE course to offer credit.
- All Barry Tech, GC Tech and LIHSA CTE courses meet NYS required elements to be approved for high school credits.
- Nassau BOCES will publish a list of courses that fulfill the Regents exam substitution.

* Although all Barry Tech, GC Tech and LIHSA CTE courses culminate in a CTE/SED-approved Industry Assessment, most are approved at this time for the 4+1 graduation pathway.

More About Integrated and Specialized Academic Credits:

The New York State Education Department (NYSED) approves Career and Technical Education (CTE) courses with integrated and/or specialized content for English, math, social studies, science and health that qualifies them for graduation credits in these areas.

The following credits are approved by the NYSED after completion of 2 years in many certified programs:

English: 1.0 credit –

satisfies the 4th-year requirement.

Math: 1.0 credit –

satisfies the 3rd-year requirement.

Science: 1.0 credit –

satisfies the 3rd-year requirement.

Social Studies: 0.5 credit –

satisfies the Participation in Government requirement.

Health: 0.5 credit –

satisfies this requirement.

If these academic credits are used to meet graduation requirements, at the district's discretion, CTE credits will be proportionately reduced; i.e.: if 1.0 credit is applied to English, total CTE credit is reduced from 8.0 to 7.0.

*Technical Academic credits are granted at the discretion of the district.

TECHNICAL ENDORSEMENTS

Students who have successfully completed a 2-year CTE course at Barry Tech, GC Tech & LIHSA are eligible to earn a technical endorsement on their Regents diplomas.

The student is required to meet NYS graduation requirements.

- achieve a grade of 75% or better in his/her chosen CTE course of study
- a passing score on the approved industry technical assessment
- complete a work-based learning experiences as required by his or her approved program
- successfully complete a senior project
- create a work-skills employability profile.

Nassau BOCES will notify each student's home school district when he/she has completed all approved program requirements to be eligible for technical endorsement.



PLANNING FOR COLLEGE

More than 75% of the graduating seniors who attend Barry Tech, GC Tech & LIHSA go to college. The well-rounded career and technical education students receive at Nassau BOCES prepares them for immediate jobs as prepared, trained, and often certified, employees. Simultaneously, students are ready to enter college fully prepared for their freshman experience, frequently using the articulated or dual enrollment credits they earned at our CTE programs.

College readiness requires the development of unique skills and knowledge that are different from those required for employment. BOCES CTE students gain these skills and knowledge through a variety of methods:

- direct instruction in their CTE class
- counselor preparation programs that include application, scholarship, and financial aid assistance; and presentations by experts in these areas
- college visit days and admissions meetings on the three campuses
- visitations of college and post-secondary campuses
- coordination with home school counselors and college assistance
- the use of a variety of modern technologies and college exploration online products.





AGRICULTURAL SCIENCES

**Animal Care • Animal Care Skills • Horse Science and Management
Horse Science and Management Skills • Veterinary Science**

Animal Care

COURSE AVAILABLE:
Grades 11–12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Strong science, math, and reading skills

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit Math–Specialized

1.0 credit English

1.0 credit Science

This course is certified by New York State.

This course supports New York State CDOS Credential requirements.

Students in this course are exposed to a wide range of animal-related careers. These careers include grooming, veterinary science, animal behavior and training, and laboratory/pet shop animal care. Students are given the opportunity to experience hands-on learning and training in the classroom, as well as in various work-based learning facilities.

Students Learn:

- grooming • parasitology • animal behavior
- animal husbandry • anatomy • physiology
- animal diseases • veterinary assistant skills
- CPR/first aid • animal agricultural industry

Career Opportunities:

The pet industry is expanding, and the emphasis is on preventive health measures such as proper vaccination, nutrition, and grooming. This course will prepare students for entry-level employment in a variety of settings.

Graduates who pursue further education and earn a 2- or 4-year college degree can prepare for the New York State Licensed Veterinary Technician exam. Students may also decide to pursue studies in veterinary science, agricultural studies, biology or business management. Typical job titles in the field of animal care include veterinary assistant, licensed veterinary technician, pet bather/fluffer/groomer, dog trainer, pet shop manager, animal technologist, veterinarian and agricultural manager.

College Agreements:

Upon completion of these course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- SUNY Cobleskill • SUNY Delhi

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites such as:

- BrightHeart Veterinary Referral and Emergency Center • Tackapausha Nature Preserve • Petco • Town of Hempstead Animal Shelter



Animal Care Skills

COURSE AVAILABLE:
Grades 10, 11 or 12

LOCATION:
Barry Tech

COURSE LENGTH:
1 or 2 years

PLACEMENT:
Skills

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Strong science background

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits:*

0.5 credit Career and Financial Management

This course supports New York State CDOS Credential requirements.

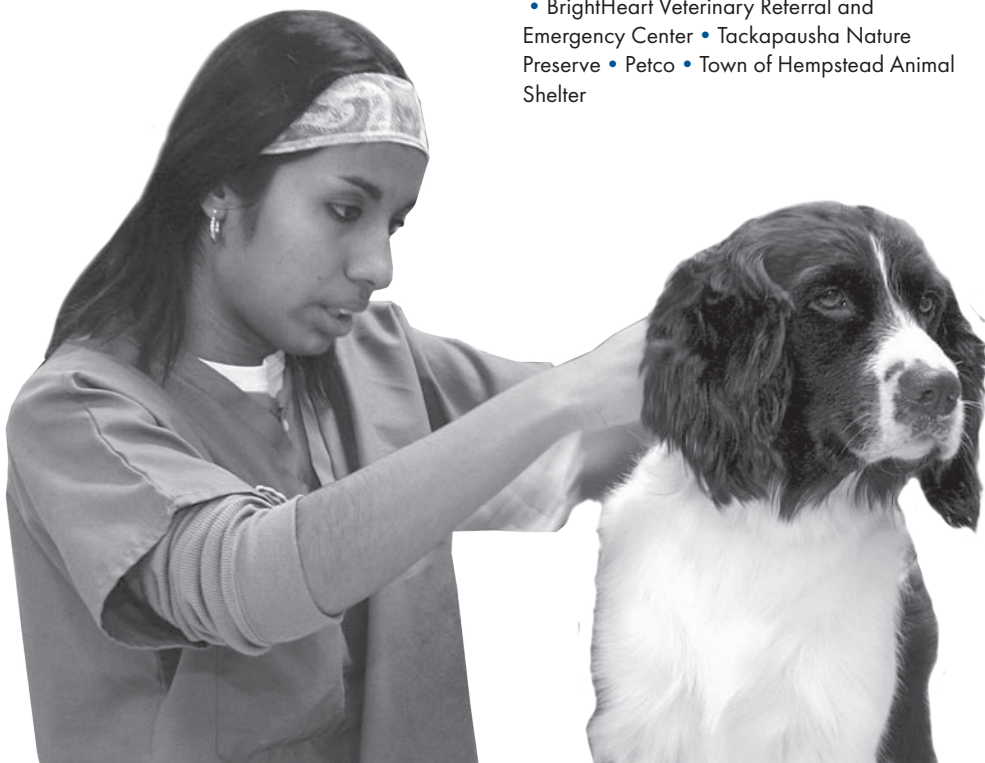
This course qualifies for the CTE 4+1 Pathway.

Students completing 1 year of this 2-year course may receive up to 4 CTE credits OR distributed credits.

Students in this course will explore careers in the pet and companion animal industries through a curriculum designed to teach entry-level skills that may lead to more complex career choices. Students will work with live animals using professional equipment in a classroom that serves as a functioning animal care facility. Students will progress from basic to complex skills associated with entry-level employment.

Students Will Develop Skills in:

- animal husbandry and handling • animal health care and monitoring • care and management of exotic animals • pet shop operations • professional grooming



Career Opportunities:

The expanding pet and companion animal industry continues to offer a variety of career opportunities, including support personnel in pet shops, veterinary offices, kennels, laboratories and grooming salons. Students who successfully complete this course will be prepared for entry-level employment. Typical job titles in the animal care field include animal caretaker, kennel assistant, and pet bather/fluffer.

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites such as:

- Bobbi and the Strays • Center for Specialized Veterinary Care • Petco • Town of Hempstead Animal Shelter • Bide-A-Wee • Center for Science Teaching and Learning

Horse Science and Management

COURSE AVAILABLE:
Grades 11–12

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Strong science, math, and reading skills.
Moderate physical demands.

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

- 0.5 credit Career and Financial Management
- 1.0 credit Math–Specialized
- 1.0 credit English
- 1.0 credit Science

This course is certified by New York State.

** Horse Science and Management is taught at a separate, fully-equipped facility dedicated to this course. The North Shore Equestrian Center is located on the Post Campus, 720 Northern Boulevard (Route 25A), Brookville, NY 11548. For directions and a map, please visit www.nassauboces.org/barrytech and click the locations link in the menu.*

This course will teach students the skills and knowledge necessary to care for horses. Students will learn how to properly feed, handle, and manage different breeds of horses using all the equipment and tools required to manage a horse facility. They will also gain an understanding of the basic science, behavior, and proper nutrition of horses.

Students Will Develop Skills In:

- cleaning and maintenance of riding equipment • feeding and grooming • riding for exercise and training • diagnosis and administration of first aid for common injuries and ailments • stable and horse farm management

Career Opportunities:

With more than 100 horse farms located in Nassau and Suffolk counties — and the significant use of horses for show, racing, and leisure riding on Long Island — the need for well-trained personnel is growing at racetracks, breeding farms and riding stables. There is also a demand for trained professionals in veterinary offices locally, nationally and internationally.

Students who complete this program may find employment in a variety of settings that require equestrian skills. Many graduates pursue further education in equine science, veterinary assisting, animal science, veterinary technology or veterinary science. Typical job titles in this field

include assistant trainer, breeding farm assistant manager, race horse groomer, exercise rider, show stable employee, veterinary assistant and veterinarian.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- SUNY Cobleskill • SUNY Delhi • LIU Post

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites, such as:

- Horseability • North Shore Equestrian Center • North Shore Saddlery • Pal-O-Mine

Horse Science and Management Skills

COURSE AVAILABLE:
Grades 10, 11 or 12

COURSE LENGTH:
1 or 2 years

PLACEMENT:
Skills

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits:

- 0.5 credit Career and Financial Management

This course is certified by New York State.

This course supports New York State CDOS Credential requirements.

** Horse Science and Management is taught at a separate, fully-equipped facility dedicated to this course. The North Shore Equestrian Center is located on the Post Campus, 720 Northern Boulevard (Route 25A), Brookville, NY 11548. For directions and a map, please visit www.nassauboces.org/barrytech and click the locations link in the menu.*



In this course, students will learn the skills needed to prepare for basic, entry-level jobs in the equine industry. This course puts real-life learning to use; students work with horses as they learn the basic needs, handling and care of horses, as well as the basics of stable and horse facility management. Students will learn to develop leadership and communication skills that are pertinent to the equine industry, with special attention to soft skills such as problem solving, teamwork, work ethic and others, that will lead to success in any chosen career.



Students Will Develop Skills in:

- riding for exercise and training • grooming and tacking of horses • leading and handling of horses • cleaning and maintenance of riding equipment • horse health care and monitoring • day-to-day stable and horse facility operations • basic horse science, behavior and proper nutrition for horses • presentation and demonstration skills

Career Opportunities:

Long Island has an increased demand for people trained to work in many aspects of the equine field due to the significant use of horses for show, racing, and leisure riding. Upon successful completion of this course students will be prepared for an entry-level position in the equine field. Students will be prepared to apply for immediate employment, for positions such as hot walkers, groomers, turn out personnel, tacking personnel and stall maintenance personnel.

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internship or paid Co-Op experiences at workplace sites, such as:

- Horseability • North Shore Equestrian Center
- North Shore Saddlery • Pal-O-Mine

Veterinary Science

COURSE AVAILABLE:
Grades 11–12

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Strong record of academic success.
Students must have passed Living Environment Regents exam.

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

- 0.5 credit Career and Financial Management
- 1.0 credit Math–Specialized
- 1.0 credit English
- 1.0 credit Science

This course is certified by New York State.

This course supports New York State CDOs Credential requirements.

LOCATION:
Barry Tech

In this course, students can turn their love for animals into a career and embark on an exciting career path in veterinary medicine, where they can put their knowledge and compassion into practice. Students will develop the skills necessary to work with both small and large animals, ranging from laboratory animals to exotics. Students will learn how to assist licensed veterinary technicians and veterinarians in the various clinical and technical aspects of animal care, as well as in laboratory and diagnostic testing techniques and procedures. They will gain real-life, hands-on experience in a classroom that functions as a veterinary clinic and surgical suite.



Students Will Develop An Academic Foundation in:

- anatomy • physiology • parasitology • bereavement counseling • veterinary medical terminology • pharmacology • animal diseases • animal behavior ethics

Career Opportunities

Students who complete this course may find immediate employment as veterinary assistants in a variety of settings, including animal hospitals, clinics, research labs, pharmaceutical companies, public health and agricultural agencies, and in the pet industry. Graduates will be prepared to pursue further studies in veterinary medicine, veterinary technology and biomedical research.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- SUNY Delhi

Work Experience Opportunities:

Students who meet eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites such as:

- Baldwin Animal Hospital • Bellmore Veterinary Hospital • Island Trees Animal Hospital • Levittown Animal Hospital • Long Island Veterinary Service and Critical Care Center • Massapequa Pet Vet • Mid Island Animal Hospital • Island Exotic Hospital • Cornell Cooperative Extension Suffolk County Farm Complex



CAREERS IN THE ARTS

Audio Production/Sonic Arts • Computer Animation Skills • Computer Game Design • Computer Game Design & Programming Skills • Expressive Arts/Art Therapy • Fashion Design Technology • Multimedia Journalism • Performing Arts (Dance, Music Theatre) • Production & Managerial Arts (Scenic Construction Technology) • Visual & Media Arts (Fine Arts, Film & Animation)

***Please note that several Arts programs are transitioning exclusively to LIHSA.
Two Year students will complete their program at their original location.***

Audio Production (Sonic Arts)

COURSE AVAILABLE:
Grades 9–12

LOCATION:
LIHSA

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Reading skills on grade level. Being creative.

EARNING HIGH SCHOOL CREDITS:

0.5 credit Career and Financial Management

1.0 credit English

This course is certified by New York State.

Through hands-on training, students will learn the basics including how to set up, operate, and maintain electrical equipment used in the industry. Students will learn audio production terminology and techniques. They will use instruments, microphones and digital audio workstations to create multi-track recordings. This course will provide experience in the areas of radio, television, commercial projects and live musical recordings. Projects will not only teach students to explore writing, producing, and engineering, but also they will gain an understanding of the history of music, musical styles and recording.

Students Will Learn:

- digital recording techniques • microphone characteristics and techniques • live sound reinforcement • electronic operation and composition • multi-tracking and editing systems • audio recording history



They Will Train for:

- television • radio • theater • concerts
- films • commercial studios • studio recording
- live events

Career Opportunities:

Typical job titles in the field of audio production include:

- producers • broadcast technician • engineer
- mixing engineer • mastering engineer • radio technician • production assistant • maintenance engineer • assistant engineer

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- Five Towns College • Nassau Community College

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites.

Computer Animation Skills

COURSE AVAILABLE:
Grades 10, 11 or 12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
Skills

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits.*

0.5 credit Career and Financial Management

**Students completing 1 year of this 2-year course may receive up to 4 CTE credits OR distributed credits*

This course supports New York State CDOs Credential requirements.

In this course students will be introduced to the rapidly changing world of digital art and design. Students will use their creative skills in new and exciting ways as they produce a wide variety of computer and traditional art and animation pieces. In class the students will use state-of-the-art software and equipment, such as Apple iMac computers, Adobe Creative Cloud Suite, Wacom drawing tablets, Makerbot 3D Printers, and stop-motion cameras. Students will be exposed to the many areas of the industry, building a foundation in the many growing careers in the art world.



The students will build a portfolio consisting of 2D and 3D works, computer-animated shorts, illustrations, advertising and promotional art, web, and 3D modeling and printing. Students will gain new skills and experiences with tools and techniques to support their professional goals, providing a head start into the entry-level industry.

Animation and Digital Media Skills covers an ever-changing industry of digital graphic design and multimedia communications in these six areas:

- using teamwork to achieve common goals • animation design • layout design for print and electronic media • image processing and illustration • workplace visitation • principles of design

Students Will Learn to Use the Following Software:

Adobe Creative Cloud, including Illustrator and Photoshop, HUE Animation Studio, MakerBot Desktop

Students Will Learn to Use the Following Equipment:

- iMac Computers • Wacom Drawing Tablets • MakerBot 3D Printer • Epson Large Format Poster Printer • Hue Animator Camera

Student Work On Skills Such As:

- animation • teamwork • project management • stop-motion animation • claymation • 3D printing • 2D computer art • web design • logo design • photo retouching • advertising design • package design • t-shirt and poster design • promotional 3D design • creating artwork to be used in video games • business plan for start-up business

Career Opportunities:

Graduates will be prepared for entry-level work in the art departments of advertising agencies; public relations firms; or design, printing and publishing companies. Possible graduation from a 2-year college will expand students' career opportunities.

Typical job titles in this field include:

• animator • 3D modeler • web designer • digital designer • production artist • book designer • junior graphic designer • illustrator and more.

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, worksite visits such as:

- Nassau BOCES Graphic Arts and Printing Service

Computer Game Design

COURSE AVAILABLE:
Grade 9–12

LOCATION:
LIHSA

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:

Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits.

0.5 credit Career and Financial Management

**Students completing 1 year of this 2-year course may receive up to 4 CTE credits OR distributed credits*

This course is certified by New York State.

This course supports New York State CDOS Credential requirements.

In the Computer Game Design Program LIHSA students will prepare for careers in the rapidly developing gaming industry. They will explore current industry-standard technologies, media and art applications and emerging technological advances. Students will refine skills in drawing, narrative development, design, animation, graphic imaging, and multimedia production to prepare for employment, advanced training, or higher education in Game Design. Through hands-on experience, students will be introduced to critical aspects of the game industry. Roles and responsibilities within the game development team will be discussed and practiced through in-class exercises.



Students Will Learn:

• project management • teamwork • computer programming • 2D computer art • 3D computer art • computer animation • user interface design • strategic and tactical design • music and sound engineering • level design • logical and algebraic thinking • character development • story development and planning • concept mapping • simulated physics programming • communication • rapid design and prototyping • market analysis • computer software testing • debugging

Career Opportunities:

The high rigor training from this course taps into the highest level of technology training. The diverse skills obtained equip students for jobs inside the computer game industry and most other computer technology careers as skills easily transfer to other high tech careers. Students will have opportunities as:

- game designer • programmer • artist
- 3D modeler • quality assurance leader • computer programmer • music and sound designer • simulation designer • texture artist and more.

Computer Game Design Skills

COURSE AVAILABLE:
Grade 11 or 12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
Skills

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:

Must be Regents track with passing Regents' Exams in Math and Science.

EARNING HIGH SCHOOL CREDITS:

Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits*

0.5 credit Career and Financial Management

**Students completing 1 year of this 2-year course may receive up to 4 CTE credits OR distributed credits*

This course is certified by New York State.

This course supports New York State CDOS Credential requirements.

Computer Game Design and Programming Skills is the perfect blend of core content and exciting student engagement! This is a diverse field that benefits from the unique skills and experiences every individual has achieved. Students will discover where their technology, creativity, and leadership skills fit best within the gaming, creative arts and programming



industries. Computer game design utilizes a simulated design studio team setting to develop skills needed for success in the areas of personal interaction and team building alongside technology hard skills. Students will design and build more than a dozen video games using industry standard software, 3D printers, drawing tablets, game controllers, and rapid program prototyping utilities and standard business applications. Students who complete this course will be able to plan and manage a computer design project, implement programming for user interactions, develop computer art and animations, understand computer programming, create storyboards and character maps, design and build video games, employ strategies and tactics in a virtual world, create marketing plans, implement computer programming, and construct artificial intelligence in a video game and digital simulation model.

Students Will Learn:

• project management • teamwork • computer programming • 2D computer art • 3D computer art • computer animation • user interface design • strategic and tactical design • sound engineering • virtual world map design • logical and algebraic thinking • character development • story development and planning • concept mapping • simulated physics modeling • communication • rapid design and prototyping • market analysis • testing computer software • debugging a program

Career Opportunities:

The high rigor training from this course taps into the highest level of technology training. The diverse skills obtained equip students for jobs inside the computer game industry and most other computer technology careers as skills easily transfer to other high tech careers. Students will have opportunities as a game designer, 3D modeler, quality assurance leader, computer programmer, simulation designer, texture artist and more.

Certifications:

This curriculum aligns with the following software industry certifications:

- Microsoft Word Specialist • Microsoft PowerPoint Specialist • Microsoft Excel Specialist • Adobe Photoshop Associate • Multimedia Fusion

Expressive Arts / Arts Therapy

COURSE AVAILABLE:
Grades 9–12

LOCATION:
LIHSA

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 8 CTE credits a year

EARNING HIGH SCHOOL CREDITS:

Students completing this 2-year course may receive up to 8 CTE credits CTE credits OR distributed credits using either or both of the following:

0.5 credit Career and Financial Management

0.5 credit English

This course is certified by New York State.

The Expressive Arts/Arts Therapy program will provide students with skills needed for careers related to family and social services. It combines psychology and the creative process to promote emotional growth. This approach uses the inborn desire to create—be it music, theater, visual art, dance, or other artistic form—as a tool to help initiate change. Through this sequence students will understand the major stages of human development—physical, social, emotional, and psychological; demonstrate understanding of and sensitivity to individual, ethnic, and cultural differences among individuals and families; explore a variety of community-based human service agencies and careers; be prepared to enter undergraduate programs in the expressive arts and related fields and demonstrate effective communication skills, decision-making strategies, and problem solving techniques.



Career Opportunities:

• Music Therapist • Art Therapist • Dance Therapist • Drama Therapist • Child Development Specialist • Adaptive Arts Teacher • Counselor • Social Worker • Teacher

Core Courses

Digital Imaging	5
Activism and Art-Making	5
Art and Institutions.....	5
The Exhibition	5
Objects and Visual Meaning.....	25
Digital Mixed-Media Lab	25
Curating Displays of Visual Works.....	25
New York City & Surrounds in Media.....	25

Fashion Design Technology

COURSE AVAILABLE:
Grades 11–12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:

Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits.

0.5 credit Career and Financial Management

**Students completing 1 year of this 2-year course may receive up to 4 CTE credits OR distributed credits*

This course supports New York State CDOS Credential requirements.



Fashion is an exciting area of study with many career opportunities. The Fashion Design Technology course will give students an overview of the fashion industry during a 900-hour program with the emphasis on the creative end of fashion design.

In this course, students will develop a solid foundation in the practical skills they need to become designers, using state-of-the-art equipment, such as dress forms and industrial sewing machines. Throughout the course they will compile a professional portfolio to showcase their work, as well as create garments that will be highlighted on the runway in an end-of-the-year fashion show.

Young Designers Have the Opportunity to:

• create their own original designs (such as prom dresses and sportswear) • model and exhibit completed garments • attend guest lectures delivered by experienced professionals

Students Will Acquire Essential Fashion Skills, Including:

• sketching and illustration for fashion design • garment construction • patternmaking for shirts, dresses and skirts • draping • development of slopers for patterns and original designs

Multimedia Journalism

COURSE AVAILABLE:
Grades 9-12

LOCATION:
LIHSA

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 credits a year

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits for both.

0.5 credit Career & Financial
Management and CTE

The Multimedia Journalism program at Long Island High School for the Arts (LIHSA) will be broken into three areas of focus. Students will select their focus but cross train on all three: video storytelling, audio storytelling and photojournalism. In the video story telling section students will learn to shoot on professional-level video cameras and to edit on industry-standard software. Students will be trained to identify video-worthy stories, to effectively interview subjects, and to film compelling sequences and scenes. In the audio story-telling portion students will focus on breaking news techniques. They will be trained to report, interview, script and edit compelling audio stories suitable for radio broadcasting or podcasting. In photojournalism students will learn the mechanics and artistry of photography. They will learn how to photograph using Professional-level cameras and edit their work on industry-standard software. Students will

also be taught the aesthetics, ethics, and history of photojournalism.

Students Will Learn:

- Pre-production
- Studio/location production
- Post-production editing

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include Molloy College, Five Towns College, LIU Post

Career Opportunities:

- TV Producer
- News Anchor
- Journalist
- Podcaster
- Radio Personality
- Camera Operator
- Sound Engineer
- Gaffer
- Lighting Designer





PERFORMING ARTS

Dance: Concert or Commercial

Music: Instrumental, Vocal, Digital

Theatre: Drama & Musical Theatre

PERFORMING ARTS

Dance: Concert or Commercial
Music: Instrumental, Vocal, Digital
Theatre: Drama and Music

COURSE AVAILABLE:
Grades 9–12

LOCATION:
LIHSA

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using either or both of the following:

0.5 credit Career and Financial Management

0.5 credit English

This course is certified by New York State.

All students accepted in the Performing Arts program are required to take 3.0 core credits that include the following courses: Activism and Performance, Artistic Direction and Production, Rhythmic Exploration, Creativity and Collaboration, Composition of Original Works, Solo Performance, Original Works Performed, and Movement and Storytelling.

Students in all three program strands will complete an additional .5 credits in Career and Financial Management coursework, a requirement of a CTE program through the following courses, by taking one each semester: Careers in the Arts, Artist Management, Arts Entrepreneurship, and Creative Promotion in the Arts.

Beyond the required core, students specialize and select to take 4.5 additional credits in Drama, Musical Theatre, Digital, Vocal or Instrumental Music, or Concert or Commercial Dance.

Students Will Learn:

The Performing Arts pathway focuses on the direct creation of art and entertainment by the individual artist instead of through a secondary physical medium. Performing artists are themselves the medium of creative expression. Concentrations with this pathway include: Dance, Vocal & Instrumental Music, and Theatre/Musical Theatre.



Work-Based Learning Opportunities:

Students enrolled in LIHSA will also complete Work Based Learning (WBL) hours thru their participation in classes. WBL at LIHSA is most often aligned with world renown arts organizations who provide artistic residencies that provide opportunities for students to work side by side with an artist in a selected art form. They vary in length from 12 weeks to the full school year and are associated with the creation of a student performance or product. Some examples of partner organizations that are providing artistic residencies include the American Ballet Theatre, Roundabout Theatre Company, Young Audiences

of America, Magic Box, and Batoto Yetu. In addition, LIHSA works with cultural partners to design experiences that meet the needs of various organizations and those of our students. College articulation agreements are also in place with several local colleges.

Career Opportunities:

• Choreographer • Actors: Broadway, TV, Film • Musicians: Vocalists • Film and Stage Directors • Arts Educators, Coaches • Songwriting/Composing • Arts Management • Talent Agents/Publicists • Casting Directors • Voice Over Artists • Playwrights





PRODUCTION & MANAGERIAL ARTS

CTE Scenic Construction Technology

PRODUCTION AND MANAGERIAL ARTS

CTE Scenic Construction Technology

COURSE AVAILABLE:
Grades 9–12

LOCATION:
LIHSA

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using either or both of the following:

0.5 credit Career and Financial Management

This course is certified by New York State.

The unique immersive teaching methods will equip students with the skills to build sets and performance environments in theatre, film, and live events.

Working in small groups in the scenic construction workshop, students will learn how to create the world of performance alongside

industry professionals. Students will study timber and metal fabrication, rigging, mechanics, drafting, computer aided design, and stage machinery. Students will design and realize their own projects for specific staging challenges, working as construction manager on various in-house productions.

Students will leave LIHSA with a robust skillset, valuable industry connections and confidence about their future in live events, theatre, and film.

Students Will Learn:

The Production and Managerial Arts pathway focuses on both the technical and managerial skills necessary to bring entertainment to the public. Concentrations with this pathway include: Special Effects or Directing and Stage Management.

Objects and Visual Meaning .25 credit

Students will begin the semester by looking into the idea of meaning in everyday objects; building understandings and analyses of the ways in which meanings are assigned and associated. This will include an exploration of both analog and digital platforms and the expectations assumed or produced by each. Through these modes of inquiry, the class will focus on the how and why of making things.

Digital Mixed-Media Lab .25 credit

This class is a learning laboratory for digital art making processes from brainstorming through digital output. Students are encouraged to mix media, taking clues from a rich tradition of avant-garde experiments and current trends in digital

art. All projects incorporate digital tools in some stage of their process, though the final format may integrate traditional techniques and materials. The class establishes a collaborative learning environment, wherein all participants will take turns sharing their expertise and discoveries in a laboratory of emerging technologies.

Curating Displays of Visual Works .25 credit

The challenge of contemporary public curating is responding to the shifts in urban space and usage, to new technologies, and to new forms of social and interventionist artistic practice. This course will provide an overview of curatorial models for visual and media art, ranging from approaches to online exhibitions to models for presenting digital art in indoor spaces such as museums and galleries at festivals or in outdoor spaces. Students will engage with challenges of and best practices for the presentation of digital art in various contexts, audience engagement, organizational structures, as well as exhibition documentation.

New York City & Surrounds in Media .25 credit

The explosive growth and transformation of the modern city has inspired its frequent representation in photography, cinema, television and other media, influencing how we view and understand modern urban life. This course examines the different facets of the city over time, including industrialization and development, suburbanization, race, poverty and even dreams of future cities as they are seen through a variety of modern media.



Visual and Media Arts (Fine Arts, Film and Animation)

COURSE AVAILABLE:
Grades 9–12

LOCATION:
LIHSA

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Strong reading comprehension, good color and visual acuity skills

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

**Students completing 1 year of this 2-year course may receive up to 4 CTE credits or distributed credits.*

This course supports New York State CDOS Credential requirements.

The Visual & Media Arts (Fine Arts, Film and Animation) pathway includes those occupations that use visual art, digital media, and Web-based tools and materials as the primary means of communication and expression. Concentrations include: Fine Arts, Filmmaking and Digital Media/Animation.

Students will learn to use the following software:

- Adobe Creative Suite (including Illustrator, Photoshop, InDesign, After-Effects and Premiere)
- Autodesk Maya
- Flipcart Digiflip Pro
- Sketch-Up
- Dragonframe
- Final Cut Pro

Students Will Learn:

- pre-production • studio/location production
- post-production editing • graphic animation
- cinematography • audio engineering
- lighting techniques • directing and screen writing • directing • performance • production crew responsibilities • equipment management
- screenplay writing • short films • news broadcasts • commercial advertisements
- music videos • documentaries

Career Opportunities:

Many graduates choose to continue their studies at 2- and 4-year colleges pursuing degrees, and/or seeking careers in the many growing areas of the communications industry, including cable television, webcasting, video production, and distance learning. Typical job titles in the communications field include camera operator, desk assistant, film/videotape editor, gaffer, grip, lighting assistant, production assistant, video engineering assistant and prop person.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- Five Towns College • NYIT

Work Experience Opportunities:

Students may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences, at workplace sites such as:

- Magic Visual • WLNY (TV 55/10)
- Nassau BOCES • NYC Films, Inc

Program graduates have gone on to work as:

- News 12 reporters • Panavision camera operators for *Law and Order SVU* and *The Good Wife* • Emmy-nominated video editors for Newsday.com • Emmy-award winning segment producers for News 12 Long Island





BUSINESS/ INFORMATION SERVICES

Office Assistant Skills

Retail Skills

Office Assistant Skills

COURSE AVAILABLE:
Grades 10, 11 or 12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
Skills

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits*:

0.5 credit Career and Financial Management

This course supports New York State CDOS Credential requirements.

** Students completing 1 year of this 2-year course may receive up to 4 CTE credits OR distributed credits.*



In this course, students will learn all the skills necessary for working in an office environment. They will receive instruction in computer applications including Microsoft Word and Excel, office basics such as telephone etiquette and message taking, alphabetic filing rules, scheduling appointments, mail room skills, basic business math, and understanding workplace ethics. All students will participate in travel training and will work on job seeking and job keeping skills.

Students Will Learn to:

- format and edit business letters, memos, tables, and columns
- compute inventory and payroll spreadsheets in Excel
- perform alphabetic filing tasks
- operate various office machines

Students Will Develop Professional Skills, Including:

- time management
- teamwork
- interpersonal relations
- effective communication
- organizational skills

Work Experience Opportunities:

Worksites Include:

- NYS Department of Public Works
- AHRC
- Joe's Corner Store at Barry Tech

Retail Skills

COURSE AVAILABLE:
Grades 10, 11 or 12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
Skills

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits*:

0.5 credit Career and Financial Management

This course supports New York State CDOS Credential requirements.

** Students completing 1 year of this 2-year course may receive up to 4 CTE credits OR distributed credits.*

During this course, students will have the opportunity to help run a school retail store. Students will learn about entrepreneurship, management, marketing and personal finance. All students will have an opportunity to be a cashier, bagger, greeter, stock person, counter person and security guard on a rotating basis throughout the year.



Students Will Learn to:

- operate a cash register
- develop marketing materials
- create store displays
- monitor inventory and stock
- prepare and serve food and beverage items
- use Microsoft Excel to prepare purchase orders
- prepare a resume
- practice job interview skills

Career Opportunities:

Students who complete this course will be qualified to seek entry-level positions in the retail services industry that allow for continued personal and professional advancement based on their desires and abilities. Some graduates attend continuing education programs to increase their skills. Typical job titles in retail include customer service representative, sales representative, cashier, inventory clerk, store manager and stock person.

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include shadow days, internships or paid Co-Op experiences at workplace sites such as:

- CVS/Pharmacy
- DSW Shoe Warehouse
- Joe's Corner Store at Barry Tech
- Trader Joe's
- Walgreens Co.
- TJ Maxx
- Old Navy
- Home Goods



ENGINEERING TECHNOLOGIES

Auto Collision Technician • Auto Skills • Automotive Technology
• Aviation Operations • Carpentry • Computer Technology •
Construction Electricity • Construction Trades • Construction Trades Skills
• HVAC/Plumbing • Network Cabling Technician/Home Technology
Integration (HTI) • Powersports and Engine Repair • Welding

Auto Collision Technician

COURSE AVAILABLE:
Grades 11–12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Strong gross and fine motor coordination and attention to detail

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using either or both of the following:

0.5 credit Career and Financial Management

1.0 credit English

1.0 credit Math

This course is certified by New York State.

This course supports New York State CDOs Credential requirements.

This course provides practical instruction in basic auto body repair and continues on to advanced techniques and technology. In the second year, students will estimate repair costs on vehicles, perform the repairs for actual customers, and are expected to meet or surpass industry standards.

This program integrates environment sustainability and current health issues into the curriculum through lessons on specific regulations for the control of hazardous air pollutants. Students will learn NYSDEC/EPA regulations regarding paints and equipment. New, more environmentally friendly paints and processes are also integrated into the curriculum. In I-CAR's Professional Development Program (PDP) which is the industry standard for collision repair training.

Curriculum, students to graduate with a Platinum designation, making them highly-employable.

Students Will Learn How to:

- use auto body plastics
- work with specialized equipment and spray paints
- restore cars to their original condition
- customize (an increasingly popular part of the field)

They Will Also Learn Techniques in:

- sheet metal straightening
- sheet metal alignment
- plastic repair
- painting and refinishing
- compounding and polishing
- diagnosing and measuring damage
- estimating repairs

Career Opportunities:

This 2-year course will prepare students for an entry-level position in the auto body industry. Graduates who enroll in college may pursue studies in automotive design, commercial art or engineering, and often use their skills to help pay expenses. Typical job titles in this field include automotive detailer, insurance adjuster, masker/helper, repair shop owner, shop foreperson, service manager, custom spray painter and antique car restorer.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- SUNY Morrisville State
- Ohio Technical College

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid

Co-Op experiences at workplace sites such as:

- Castle Collision
- Keri Coach Collision Center
- Kidd Collision

Auto Skills

COURSE AVAILABLE:
Grades 10, 11 or 12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
Skills

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits* using any or all of the following:

0.5 credit Career and Financial Management

This course supports New York State CDOs Credential requirements.

** Students completing 1 year of this 2-year course may receive up to 4 CTE credits OR distributed credits.*

In this course, students will progress from basic to advanced skills in the automotive technology field. Students will receive a basic introduction to automotive careers, learn about certifications, and practice using basic hand and power tools, as well as other equipment, such as an oxygen/acetylene torch. Students will learn suspension and steering work, including inspecting and replacing shock absorbers and MacPherson struts, and identifying the parts of a rack and pinion system. Cooling systems, basic electrical systems and engine performance will also be covered. This course stresses proper dress code, punctuality and responsibility. Many of our students will compete in industry-based competitions.

Using the Tools and Equipment of the Trade, Young Technicians Will Learn How to:

- jack and support a vehicle
- remove and replace exhaust systems, disc and drum brake systems
- machine cut discs and drums
- balance and rotate tires
- remove a tire from a rim using a tire changer
- perform general maintenance, including oil and filter replacement, chassis lubrication and fluid level check

Career Opportunities

There is a high demand for trained workers in the automotive industry. Those who complete their automotive sequence in skills classes obtain entry-level positions in a wide variety of industry settings. Typical job titles in this field include auto parts specialist and automotive technician.





Automotive Technology

COURSE AVAILABLE:

Grades 11–12

COURSE LENGTH:

2 years

PLACEMENT:

General

CREDITS:

Up to 4 CTE credits a year

ADMISSIONS CRITERIA:

Strong reading and math skills, as well as good gross and fine motor coordination

EARNING HIGH SCHOOL CREDITS:

Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit English

This course is certified by New York State.

LOCATION:

**Barry Tech
or GC Tech**

With the technological advancements of today's automobile, even routine maintenance procedures require analytical thinking, dexterity and patience. In this fast-paced course, students will be trained to use state-of-the-art diagnostic, machining and hydraulic test equipment.

Future Technicians Will Learn:

• hand tool and equipment safety • basic automotive fundamentals • hybrid vehicle safety

In Addition, the Course Will Focus on National Automotive Technicians Education Foundation:

• A5 brakes • A6 electrical • A8 engine performance • A4 suspension
These 4 core Automotive Service Excellence (ASE) areas prepare students for automotive certifications. Each area of focus is instructed by ASE certified technicians with 20 years of automotive experience.

Career Opportunities:

There is a great demand for qualified auto technicians in service stations, small repair shops and new car dealerships. Graduates may pursue further training at technical colleges and seek associate degrees in automotive technology. Job growth is an estimated 17.2 percent (Monster.com). This is faster than average when compared to other industries. Positions such as automotive technician, service technician, front end specialist, service manager, service writer and shop specialist are just a few that are available for today's technician.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- SUNY Morrisville • Lincoln Tech • University of Northwestern Ohio

Work Experience Opportunities:

Barry Tech and GC Tech are two New York State high schools selected to be an Automotive Youth Educational System (AYES) Training Center. Our automotive program has passed the rigorous industry standards established by ASE. Students who fulfill the competencies of the program are fully qualified as entry-level technicians. Local dealers have partnered with us to give students who demonstrate a commitment to high standards an opportunity for paid summer internships between their junior and senior years. The Snap-On Tool Company offers a scholarship as part of this internship experience, which may lead to a high-tech, well-paying automotive position.

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites such as:

- Advantage Nissan • Anchor Audi • Auto World Kia • Country Parkway Mobil
- Gregoris Motors • Jiffy Lube • Legacy Infinity
- Millennium Honda • Millennium Toyota
- Paul Conte Chevrolet • Rallye Motors – BMW (Roslyn) • Westbury Toyota • NATEF (National Automotive Technicians Education Foundation)

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- Lincoln Tech • SUNY Morrisville
- University of Northwestern Ohio

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites such as:

- Goodyear Auto Service Center • Honda City • Jiffy Lube • Millennium Honda • Nassau BOCES Transportation • Nassau County Department of Public Works • Pepboys • Quick Lube • Rallye BMW • Rallye Lexus • Rallye Motors – BMW (Roslyn) • Sears • Tire Centers
- Toyota Westbury Jeep • Westbury Nissan



Aviation Operations

COURSE AVAILABLE:
Grades 11–12

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Interview required

EARNING HIGH SCHOOL CREDITS:

Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit Math

1.0 credit English

1.0 credit Science

This course is certified by New York State.

Note: All students who qualify academically are welcome to attend the program. However, some students in the program may not qualify for aircraft pilot training due to certain medical diagnosis and/or medical doctor prescribed medications that are not approved by the Federal Aviation Administration. Such students will be able to fly the flight simulator and take part in all internship activities and are permitted to fly in the aircraft in the rear seat as an observer. All aircraft occupants are equipped with a headset and intercom thus enabling observers to be a part of the flight training experience. An interview is required.

LOCATION:
Barry Tech

simulator with a moving computer-generated panoramic visual display. The simulator is approved by the Federal Aviation Administration.

During student flight training, environmentally friendly aviation industry practices will be reinforced such as following published noise abatement procedures during all phases of flight when possible. Additional environmentally safe practices include the use of high tech fuel strainers during the aircraft preflight inspection. The fuel strainers enable fuel samples to be recycled to prevent harm to Long Island's environment.

Aircraft flight training will be conducted at Republic Airport.

Career Opportunities:

The airline industry is currently facing one of the biggest hiring surges in history. According to a recent Boeing Company forecast, the airline industry will need to hire 804,000 new pilots worldwide throughout the next two decades. Boeing is also forecasting that they will sell \$5.6 trillion dollars worth of new aircraft to meet the ever increasing demand for air travel. The demand for pilots will equate to approximately 28,000 new aviators entering the global industry per year.

As the demand for pilots increases, the demand for airline support personnel dramatically surges. Many Aviation Operations students are pursuing careers outside of the cockpit. Such non-flying career fields include, but are not limited to, aircraft manufacturing, aircraft engineering, aviation management, flight dispatch, maintenance technician and customer service.

It is important to note that the aviation career field is not just about piloting aircraft. Quite a number of our students pursue career fields in aviation other than piloting. Many Aviation Operations students continue their aviation industry training in college and pursue degrees in such concentrations as Airport Management or Air Traffic Control. Currently our nation is facing a dramatic, ever increasing shortage of air traffic controllers, which is resulting in a significant demand for controllers. The Bureau of Labor Statistic reported in 2019 that the median income for air traffic controllers was \$124,540 per year.

Numerous former Aviation Operations students are currently employed as pilots or support personnel with airlines such as JetBlue, Delta, American, United and Cathay Pacific. A number of graduates are working for the Federal Aviation Administration as Air Traffic Controllers while others are currently employed in military or corporate aviation as pilots and in various other capacities. Some former students even work at the airport for the Department of Homeland Security.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established.

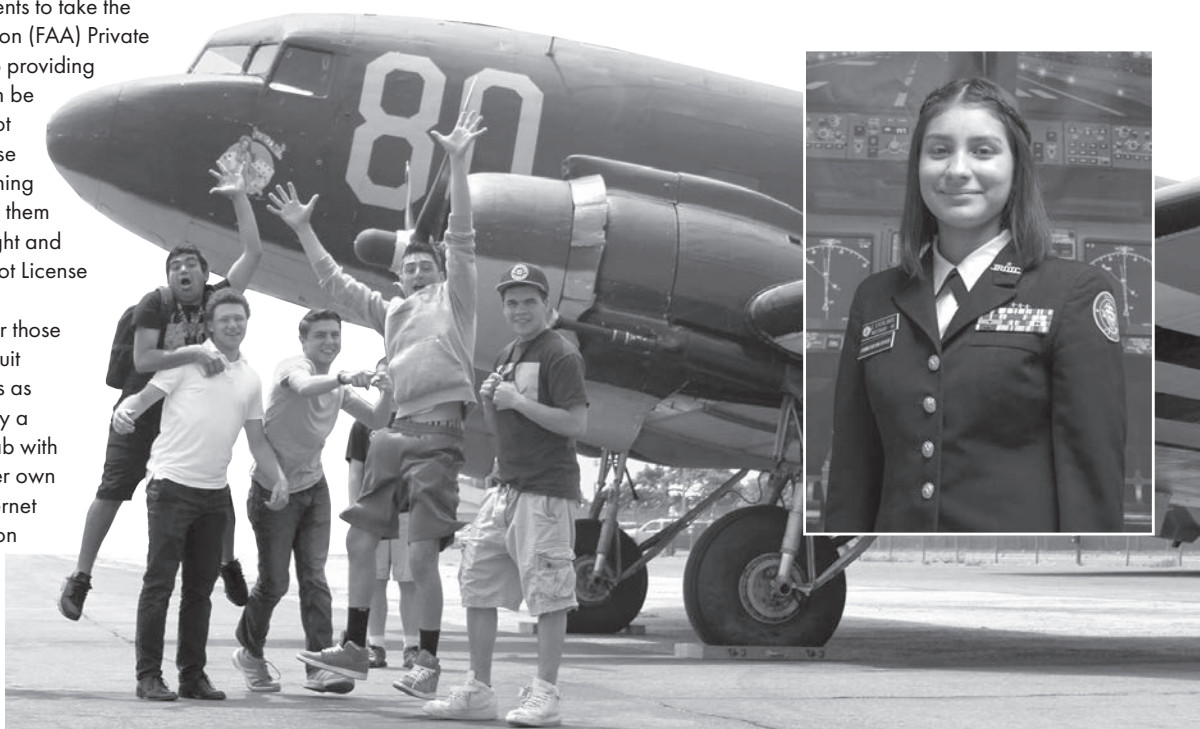
• Vaughn College • Embry Riddle Aeronautical University

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include shadow days and internships.

This course will prepare students to take the Federal Aviation Administration (FAA) Private Pilot Written Exam while also providing aircraft flight training that can be credited toward a Private Pilot License. Some students choose to supplement their flight training with private lessons enabling them to complete their first solo flight and possibly earn their Private Pilot License while still in high school.

This course is also ideal for those students considering the pursuit of non-flying aviation careers as well. The classroom is actually a teacher-directed computer lab with each student having his or her own classroom computer with internet access and advanced aviation training software. In addition to the individual computer stations, the classroom is also equipped with a full motion flight



Carpentry

COURSE AVAILABLE:
Grades 11–12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Strong math and motor skills

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

- 0.5 credit Career and Financial Management
- 1.0 credit Math
- 1.0 credit English
- 1.0 credit Science Specialized

This course is certified by New York State.

In Carpentry 1, the students will learn the basics of:

- hand and power tool use • measurement and construction math • layout and framing
- roofing • window and door installation
- exterior siding • materials estimation

The students will complete small individual practice projects and then apply these new skills, in groups of three or four, to the construction of small houses in the shop. By the end of the year, the students will complete the construction and “drying in” of a small residential structure.

In Carpentry 2, the students will learn the basics of:

- additional hand and power tool use
- related construction math • metal framing
- drywall, taping and spackling
- interior trim installation

- suspended ceilings installation • stair and railing construction • cabinet installation

The second year program is dedicated to the completion of the interior of the residential structure and also provides a basic understanding and activities in the commercial part of the trade. As in Carpentry 1, the second year students will also complete individual practice projects before applying their newly learned skills to a larger project in a group setting.

Along with the construction aspect of the program, the students will learn about blueprint reading, estimation, and related English, math and science. Additionally, the students will be taught the basics of financial management.

Career Opportunities:

The Carpentry program prepares students for entry-level positions in both residential and commercial carpentry. After graduation, many students go straight to work for local residential contractors framing houses, hanging drywall, installing roofing and siding, building decks and renovating kitchens and baths.

Other students take advantage of our strong relationship with the local carpenters union called the New England Carpenters Training Fund. Students that apply for, and are accepted into the Carpenters Union, apprentice for five years while they are working as a carpenter with benefits.

After successful completion of the five-year apprenticeship program, the student graduates to journeyman status

College Agreements:

Some students prefer to go on to college to further study in the fields of carpentry, construction management, engineering or architecture. Opportunities in these areas can be found at a local community, state or private colleges.

Upon completion of this course, students may be eligible to receive college credits. Current college agreements include:

- Nassau Community College

School-to-Work Experience:

Students who meet all eligibility requirements may participate in work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites such as:

- Nassau County Department of Public Works
- Town of Oyster Bay • private contractors

Computer Technology

COURSE AVAILABLE:
Grades 11–12

LOCATION:
Barry Tech

COURSE LENGTH:
1 year

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Above-average academic skills and visual acuity

EARNING HIGH SCHOOL CREDITS:
Students completing this 1-year course may receive up to 4 CTE credits OR distributed credits using only ONE of the following:

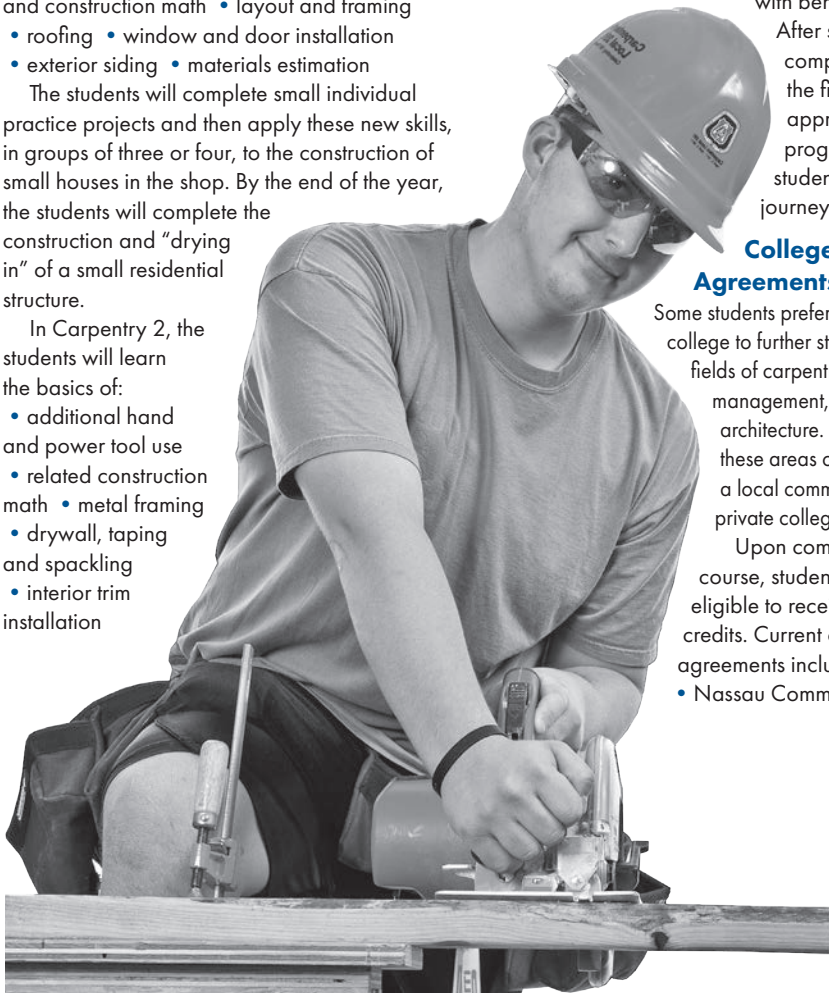
- 0.5 credit Career and Financial Management
- 1.0 credit English

This course is certified by New York State.

The Computer Technology program consists of computer hardware and software technology instruction that will help students understand and learn the basic concepts, functions, and nomenclature of computer technology. Students will learn about components and peripherals of a computer, and acquire knowledge on motherboards, storage media, expandable memory, multimedia cards, operating systems, account and help desk management, anti-virus protection, remote desktops and printer management.

The students will be introduced to the theory behind basic electronics and digital electronics, number systems, Boolean algebra, memory elements, logic elements, timing elements, digital computer logic circuits (-AND, OR, NAND, NOR), multivibrator circuits, clock, computer organization arithmetic, control memory, input and output units, elements of programming and use of microcomputers such as the Arduino boards, including robotic applications.

** for students who want to use their skills in a professional arts setting, see Production & Managerial Arts (page 28)*





Career Opportunities:

Students who complete this course are equipped with the skills needed for employment in the computer industry, and are often recruited by local companies. Graduates frequently pursue further training at technical schools, colleges, or in the military. Typical job titles in computer technology include field service technician, technical support specialist, help desk technician, desktop analyst and entry-level computer technician.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- Monroe College • Nassau Community College • NYIT • Queensborough Community College

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships, or paid Co-Op experiences at workplace sites such as:

- Nassau BOCES Technical Services
- Nassau County Information Technology

Construction Electricity

COURSE AVAILABLE:

Grades 11–12

COURSE LENGTH:

2 years

PLACEMENT:

General

CREDITS:

Up to 4 CTE credits a year

ADMISSIONS CRITERIA:

Strong math skills; good fine motor coordination; and visual, spatial, and color discrimination skills

EARNING HIGH SCHOOL CREDITS:

Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit Math–Specialized

1.0 credit English

1.0 credit Science

This course is certified by New York State.

LOCATION:

Barry Tech
or GC Tech

Students in this course will learn residential and commercial/industrial wiring in a shop equipped with mock-ups of residential buildings, and a motor control center, which simulates the commercial and industrial environment. Software applications will be used to supplement instruction. Electricians-in-training will learn the math and science needed to understand electricity in a practical, hands-on context. Students will practice installations using Romex and armored cable methods, and bend rigid and thin wall conduits. They will also gain experience working with specifications and electric codes, as well as reading building plans and technical sketches. Alternative energy fundamentals such as photovoltaic solar panels and wind energy will be introduced.

Students Will Learn

How to Install and Service:

- chime systems and lighting fixtures
- conductors, cables and boxes
- electric heat
- motors, electrical controls and transformers
- switches and outlets

Young Electricians Will Practice

Residential Work, Such as:

- wiring lighting outlets, receptacles, switches and appliances
- installing light-duty electrical services

They Will Also Practice

Commercial Work, Such as:

- installing conduits
- installing wire, recessed and fluorescent lighting, large service panels and motor control circuits

Career Opportunities:

Graduates will have the foundation for working for electrical contractors in construction, electrical repair, communication or security systems. Opportunities for employment exist with electrical contractors, cable television providers, in telecommunications, construction and remodeling, and at electrical supply houses.

Full licensing requires seven years of work experience, two years as an electrician's helper and five years as a mechanic. Many students continue their education at technical colleges where they may pursue careers in electrical construction, telecommunications or engineering. Typical job titles in construction electricity include electrician's helper, apprentice and journeyman and master electrician.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- Electrical Training Center • SUNY Alfred State College

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include shadow days, or paid Co-Op experiences at workplace sites such as:

- CM Richey Electric • High Potential Electric
- Nassau County Department of Public Works
- Greenvale Electric Supply Co. • Oyster Bay/East Norwich Chamber of Commerce



Construction Trades

COURSE AVAILABLE:
Grades 11–12

LOCATION:
Barry Tech

COURSE LENGTH:
1 year only

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Strong math skills

EARNING HIGH SCHOOL CREDITS:
Students completing this 1-year course may receive up to 4 CTE credits OR distributed credits:

0.5 credit Career and Financial Management

0.5 credit English

0.5 credit Math

This course introduces students to the basic construction fields: construction electricity, masonry, plumbing and carpentry. Students will be trained as building maintenance workers, and will be required to operate hand and power tools and other specialized equipment. Students will obtain an Occupational Safety and Health Administration (OSHA) 10-hour work card needed to work on major construction sites. Students must be able to work accurately with measuring tapes, and have solid math skills in fractions, multiplication, division and percents. They must also be able to read and follow instructions in operational procedures and on safety warning labels.

Construction Trainees Will Learn a Variety of Skills, Including:

- general carpentry • remodeling (wood and metal framing)
- gypsum, wall board installation and finish
- bathroom tile laying
- replace electrical devices

Students Will Learn the Basics of:

- plumbing maintenance and repair, such as working with pipes and fittings
- carpentry, including repair, framing, installation and concrete form construction
- masonry, mixing and placing concrete, finishing
- electricity, introduction to basic wiring
- performing critical thinking as skilled labor
- the set up and use of a laser or optical builders levels.

Career Opportunities:

Building maintainers must have a broad base of skills and knowledge about the upkeep of buildings, including metal work and electrical equipment. They must also be fully knowledgeable about the federal and state OSHA concerns.

Students completing this course are eligible to seek employment as entry-level building maintainers, or continue their studies in one of the basic construction fields, including construction electricity, carpentry, plumbing and welding. Typical job titles in construction trades include building maintainer, plumber's assistant, electrician's helper and carpenter's assistant. Trade unions recognize hours earned toward NYS Department of Labor apprenticeship programs.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- SUNY Alfred State College

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites such as:

- Habitat for Humanity
- Nassau County Department of Parks and Recreation
- Nassau County Department of Public Works
- Nassau/Suffolk Building Trades Association

Preparation for Construction Trades Skills

COURSE AVAILABLE:
Grades 10, 11 or 12

LOCATION:
Barry Tech

COURSE LENGTH:
1 year program

PLACEMENT:
Skills

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Strong math skills

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits:*

0.5 credit Career and Financial Management

This course supports New York State CDOs Credential requirements.

** Students completing 1 year of this 2-year course may receive up to 4 CTE credits OR distributed credits.*

Students in this course will develop the skills they need to begin a career in construction. Students will receive individualized instruction in maintenance work with an emphasis on repair-oriented projects, and participate in active learning in a variety of building maintenance areas.

Students Will Learn:

- clean or prepare construction sites to eliminate possible hazards
- shovel stone aggregate under the direction of a supervisor
- measure, mark and align structural elements
- load or unload building materials and distribute them at appropriate locations on a building site
- erect or dismantle scaffolding, bracing, traffic barricades, ramps or other temporary structures
- position or dismantle forms for pouring concrete, using saws, hammers, nails or bolts

Construction Trainees Will Learn Skills, Including:

- general carpentry
- basic plumbing and wiring

Career Opportunities:

Long Island is home to numerous corporations and major shopping centers that require maintenance people to service their facilities.

Graduates may choose to continue training for an additional year in one of the basic construction fields. Typical job titles in construction trades include custodial and construction helper.

** refer to Production & Managerial Arts (page 28)*





Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings including clinics, shadow days, internships, or paid Co-Op experiences at workplaces such as:

- Nassau County Department of Parks and Recreation
- Nassau County Department of Public Works

Heating, Ventilation, Air Conditioning (HVAC)/ Plumbing

COURSE AVAILABLE:

Grades 11 – 12

COURSE LENGTH:

2 years

PLACEMENT:

General

CREDITS:

Up to 4 CTE credits a year

ADMISSIONS CRITERIA:

Strong math skills and manual dexterity

EARNING HIGH SCHOOL CREDITS:

Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

- 0.5 credit Career and Financial Management
- 1.0 credit Math–Specialized
- 1.0 credit English
- 1.0 credit Science

This course is certified by New York State.

LOCATION:

Barry Tech
or GC Tech

This course of study will combine classroom theory with hands-on training in heating, ventilation, air conditioning, plumbing and all related climate control systems extending to “Smart Home” technologies that will prepare Long Island’s students for entry-level positions in this increasingly important career. Students will learn on actual field equipment and will engage in basic safety around skills such as pipe-fitting, soldering, wiring of controls and system operation.

There will be added emphasis on better energy management as this is expected to lead to the replacement of older systems and the installation of newer, more efficient systems in existing homes and buildings. In addition to these “Green Collar Workforce” concepts, demand for maintenance and service work is expected to rise as businesses and homeowners strive to keep increasingly complex systems operating efficiently. At the same time, jobs outnumber trained technicians – get prepared for this exciting career today!

Students Will Practice:

- installing bathroom fixtures
- reading blueprints, drawings and schematics
- the requirements of the plumbing code
- clean air requirements
- heating and ventilation
- refrigeration and air-conditioning

Specific Lessons Include:

- Hydronic pipe sizing
- Heat Load Calculations
- Equipment Selection
- Gas pipe sizing
- estimation
- installation of drain, waste, vent
- hot and cold water distribution systems
- heating and ventilation
- pipe fitting
- OSHA 10 certification
- AC system operation
- climate control
- EPA608 Technician Certification
- NCCER Core
- Plumbing 1
- HVAC 1 Credit toward certification
- PEX Certification
- Corrugated Stainless Steel Tubing

(CSST) Certification • New York Committee for Occupational Safety and Health (NYCOSH) Certificate • Advanced Hydronics Certification

Career Opportunities:

The continuing need for renovation and maintenance of systems in power plants, water and wastewater treatment plants, pipelines, office buildings, factories and residential buildings increases the demand for qualified plumbing and HVAC workers. Legislation mandating the installation of fire sprinkler systems in existing structures has also increased job opportunities.

Graduates often choose to continue their studies at a technical school or college in order to enhance their career opportunities in fields such as design, engineering, steamfitting and power plant maintenance and operation. Typical job titles in plumbing and HVAC include apprentice, helper, mechanic, journey worker, pipefitter, steamfitter and master plumber.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- SUNY Delhi
- University of Northwestern Ohio
- Electrical Training Center

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include shadow days, internships or paid Co-Op experiences at workplace sites such as:

- Habitat for Humanity
- Nassau County Department of Public Works



Network Cabling Technician/Home Technology (HTI) Integration

COURSE AVAILABLE:
Grades 11 or 12

LOCATION:
Barry Tech

COURSE LENGTH:
1 year

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:

Students completing this 2-year course sequence, which includes Computer Technology, may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit English (from Computer Technology)

1.0 credit Science

This course is certified by New York State.

In this introduction to computer networking, students learn to network computers using the Windows Server operating system and install and maintain a basic network. Other topics covered include protocols of data communications and communication architecture. What it takes to build, analyze, diagnose, and service networks in the home or business are also covered. The Internet and World Wide Web (WWW) are discussed as are the related hardware and software topics. Previous knowledge of Windows is helpful, but not required.



Students Will Learn:

- installation, configuration, diagnosis and preventive maintenance
- wireless communications for data and voice
- copper network cabling for data, voice, home entertainment and security systems

During 450 Hours of Study, Future HTI Specialists Will Cover Topics, Such as:

- networking
- design of home and commercial networks
- wireless installation
- home security and access systems
- video and audio equipment
- home lighting control
- "firestopping" – products that halt the spread of fire, smoke and/or toxic gas.

Career Opportunities:

Graduates with C-Tech Cabling Certification are highly sought by companies such as:

- Best Buy
- Cablevision
- Certiport
- Cisco
- CompuCom
- Hewlett-Packard
- IBM
- Microsoft
- Novell
- Staples
- Verizon

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- NYIT
- Queensborough Community College

Powersports and Engine Repair

COURSE AVAILABLE:
Grades 11–12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits:

0.5 credit Career and Financial Management

1.0 credit Math

1.0 credit English

1.0 credit Science

This course supports New York State CDOs Credential requirements.

This course is certified by New York State.

This course qualifies for the CTE 4+1 Pathway.

This course will train students in the basics of repairing small engines, outdoor equipment, and powersport vehicles. In the first year, students will learn the components and systems that make-up a small engine. Students will learn 4-stroke/2-stroke engine operation, maintenance procedures, diagnostics and repair. Throughout the year students will troubleshoot and rebuild various small engines and outdoor equipment. While the year progresses the students will have the opportunity to earn online certifications through the

Briggs and Stratton technician training course. Briggs and Stratton require all their service technicians nationwide to complete these exams. In addition students will become First-Aid certified by the American Heart Association.

In the second year students will be introduced to powersports. They will be learning about different types of powersport vehicles which include dirt bikes, all-terrain vehicles, jet skis and small marine motors. They will learn about the components and systems that make up each vehicle. This program will cover preventative maintenance procedures, tire mounting, brake service and chassis/suspension geometry. While in the program, students are going to be prepped to take the ASE G1 exam, which covers auto maintenance and light repair. Powersport vehicles have very similar components and technology as modern cars.

Throughout both years of the program, students will learn how manufacturers of both small engine and recreational vehicles are introducing “green/clean” alternative fuels to their product lines. Students will use the same technology the dealers use to repair various types of equipment in their repair facilities.

Students Will Practice:

- rebuilding small engines and outdoor power equipment
- diagnostics of small engines and related equipment
- retrieving information from the service manuals
- calculating the cost of the repair
- diagnose and repair components on recreation vehicles
- dismounting and mounting tires
- measuring wheelbase and track on recreational vehicles to enhance performance

Specific Lessons Include:

- 4-stroke/2-stroke theory
- components of a small engine
- carburetor troubleshooting
- safe and proper operation of outdoor power equipment and recreational vehicles

Class Projects Include:

Students will diagnose, repair and operate the outdoor power equipment listed below. Students are instructed in the proper use of all the equipment and will understand how using the correct personal protective equipment is vital for safe operation. Lawn mowers, line trimmers, leaf blowers, snow throwers, power washers, mini bikes and go-karts are some of the equipment that will be operated during the first year. Powersport vehicles include dirtbikes, ATV's, motorcycles and dual sports.

Career Opportunities:

Upon successful completion of the first year of this course, students will be qualified to seek entry level positions in the small engine repair industry. Students will be able to apply for positions such as repair technician, parts counter employee and sales associate.

Once the second year is complete students will be able to obtain entry-level positions at various powersport dealers prepping new recreational vehicles for delivery. Students will be able to obtain positions as mechanic assistants, which usually leads to full-time employment as their abilities increase.

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- SUNY Delhi
- University of Northwestern Ohio
- Electrical Training Center



Welding

COURSE AVAILABLE:
Grades 11–12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Strong math skills and steady hand-eye coordination

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit Math Specialized

1.0 credit English

1.0 credit Science

This course is certified by New York State.

In this course, students will learn to fuse different types of metals. Welding and cutting processes will be implemented in a real-world shop setting utilizing state-of-the-art welding equipment, as well as computer numerical control (CNC) plasma cutting equipment. They will be able to assess and evaluate their welds through nondestructive and metallurgical destructive test methods. Identification, selection and application of welding electrodes and filler rods will also be taught.

Students in this course are eligible to become members of the student chapter of the American Welding Society, where they will have the opportunity to meet prospective employers on a professional level.

Upon successful completion of this program, students can earn their AWS 1.1 Structural Steel Qualification for both vertical and overhead welding, as well as the ASME section IX 6G pipe certification. Students will be able to take nationally-recognized welder qualification tests (certifications) in accordance with the American Welding Society.

Careers in welding encompass many levels of ability and salary ranges, and include boilermaking, ironworking, welding and fabricating nuclear pipe vessels, as well as oil and gas line installations and aerospace welding.

Welders-in-Training Will Learn:

- welding and cutting safety practices
- fabrication techniques
- blueprint reading
- weld symbol identification
- math-related skills applicable to pipe and structural steel assemblies

Class Projects Include:

- bicycle frames, barbecues, fire pit, furniture, tools, artwork, picture framing, custom automotive accessories aluminum rim repair and many hours of practice for welder qualification tests

Students Will Study and Practice Essential Welding Processes, Including:

- shielded metal arc welding (SMAW – stick)
- gas metal arc welding (GMAW – MIG)
- gas tungsten arc welding (GTAW – TIG)
- oxyacetylene applications
- cutting and brazing
- plasma cutting

Note: Steady hand-eye coordination is a must for success in this course.

Career Opportunities:

Many students gain entry-level employment directly upon graduation. Others pursue further studies at colleges or other post-secondary institutions.

Typical job titles for welders include iron worker's apprentice, arc welder, certified welder, flame cutter, gas welder, Heliarc/TIG welder, welding engineer, welding inspector, welder/

mechanic, welding supervisor, structural inspector and railing designer/fabricator.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- SUNY Alfred State College
- SUNY Delhi

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites such as:

- Abble Awning
- AWISCO New York Corp.
- Con Edison's Van Nest Service Center
- Curtiss Wright
- Forest Iron Works
- Knickerbocker Partition Corp.
- Local 1 Plumbers
- Local 137 Sheetmetal Union
- Local 638 Steamfitters Nassau County Department of Public Works
- National Grid (Keyspan)
- NYS DOT
- RW Truck Equipment, Inc.
- Sav Truck Center





HEALTH SERVICES

**Dental Assisting • Emergency Medical Technician (EMT) •
Exercise Medicine and Personal Trainer • Health Care Skills •
Medical Assisting • Nurse Assisting • Physical Therapy Aide
and Rehabilitation Medicine**

Dental Assisting

COURSE AVAILABLE:
Grades 11–12

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Satisfactory completion of Living Environment course, a competitive passing score on the Living Environment Regents, and strong reading skills.

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit Science

1.0 credit English

0.5 credit Health

1.0 credit Math–Specialized

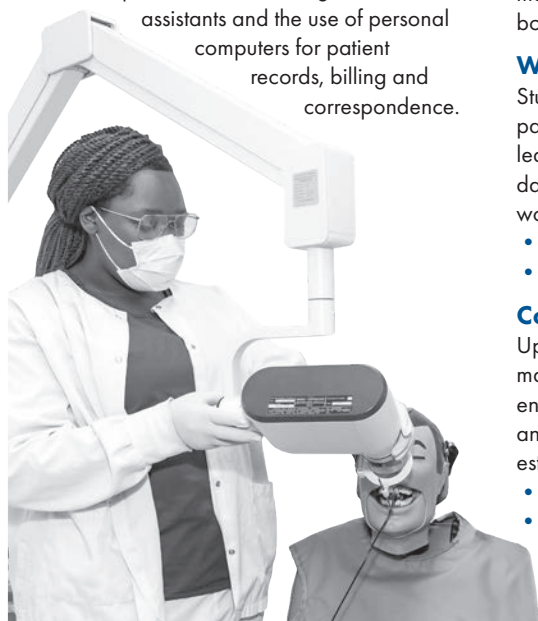
This course is certified by New York State.

This course supports New York State CDOs Credential requirements.

Note: This course requires students to wear uniforms and to complete physical exams before participating in clinical rotations.

LOCATION:
Barry Tech

Students will learn the skills needed to assist in all phases of dentistry, from taking X-rays to four-handed chairside assisting, and have the opportunity to complete a clinical rotation and assist in actual dental procedures. Through hands-on experience, students will develop skills as receptionists, office managers, chairside assistants and the use of personal computers for patient records, billing and correspondence.



Field Trips:

• Lunch and Learn at a Dental Lab • Greater New York Dental Meeting • Farmingdale College (Hygiene Program)

Community Service Hours:

• “Give Kids a Smile” Cradle of Aviation Museum, Garden City, NY

Students Will Learn:

Potential Dental Assistants will learn the essential clinical skills that include:

• assisting in dental procedures • handling dental/medical emergencies • CPR certification • instructing patients how to properly brush and floss • preparing restorative and impression materials • infection control • techniques • taking, processing and mounting X-rays • digital radiography • following Occupational Safety and Health Administration (OSHA) guidelines and universal precautions • maintaining computerized dental records (DENTRIX) • fabricating bleaching trays

**Upon completion of the required training and exams, students will be certified in CPR, Heart Saver/First Aid through the American Heart Association.*

Career Opportunities:

Students who successfully complete this two-year course in addition to 200 hours of clinical experience will have the knowledge and skills necessary to sit for the New York State Dental Assisting Certification Exams. Participants must be at least 17 years of age and a high school graduate to apply for licensure. Additional fees for this exam are required. Many graduates attend college to pursue further education in dental hygiene, dentistry or other health-related professions. Typical job titles in the field of dentistry include dental assistant (in private practice, hospitals or dental clinics), office manager (business assistant), receptionist/bookkeeper and dental product representative.

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites such as:

• Nassau University Medical Center (NUMC)
• Newman Orthodontics

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

• SUNY Broome Community College
• Plaza College

Emergency Medical Technician (EMT)

COURSE AVAILABLE:
Grades 11–12

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Satisfactory completion of Living Environment course, a competitive passing score on the Living Environment Regents, and strong reading skills.

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit Science – Specialized

1.0 credit English

0.5 credit Health

1.0 credit Math–Specialized

This course is certified by New York State.

This course supports New York State CDOs Credential requirements.

Note: This course requires students to wear uniforms and to complete physical exams before participating in clinical rotations.

LOCATION:
GC Tech

This two-year course will help you learn the basics and prepare for the New York State CFR examination and New York State EMT examination. You'll learn how to respond to emergency calls and provide efficient and immediate care to the critically ill, injured, and how to transport the patient to a medical facility. EMT's drive ambulances and observe traffic ordinances and regulations concerning emergency vehicle operation when dispatched to the location of a medical emergency.

For success students must have

• Strong verbal, reading, social, communications and problems solving skills • Ability to deal with stressful situations



Course topics:

- Body substance isolation techniques
- Identifying dangerous situations
- Patient assessment for both trauma and medical emergencies
- Administration of medications
- Triage of patients
- Communications skills
- CPR and cardiac emergencies
- Preventing and correcting in shock patients
- Splinting and bandaging injuries
- Assisting in emergency childbirth

Students completing the course may be certified in:

- Certified First Responders
- Emergency Medical Technician - Basic
- Hazardous Materials Operations
- Coaching the Emergency Vehicle Operator
- NYS Security Guard
- CPR/First Aid

College Agreements:

Upon completion of this course, students receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- Monroe College
- SUNY Canton

Work Experience Opportunities:

Students who meet eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days/internships or paid Co-Op experiences at workplace sites.

- Nassau University Medical Center

Exercise Medicine and Personal Trainer

COURSE AVAILABLE:
Grades 11 – 12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using either or all of the following:

0.5 credit Career and Financial Management

1.0 credit Science

0.5 credit Health

1.0 credit English

1.0 credit Math

This course is certified by New York State.

This course supports New York State CDOs Credential requirements.



This comprehensive course prepares students for an emerging career. The New York State Department of Labor identified it as one of the top 24 emerging occupations. Students will learn the systems of the human body and their interrelationships to health, fitness, disease, exercise, nutrition, strength, conditioning, injury, injury prevention and exercise programs for athletes, general and special populations. This comprehensive course integrates classroom work with practical hands-on training/health fitness instruction and communication skills. Successful completion of the course prepares students to earn National Commission for Certifying Agencies (NCCA) from the Academy of Applied Personal Training Education (AAPTE), the National Council on Strength and Fitness (NCSF) and/or the American Council on Exercise (ACE).

Students Will Learn:

- anatomy and physiology of human performance
- medical terminology
- health and medical conditions
- mechanisms of injury
- athletic, exercise and sports-related injuries
- CPR-AED emergency and first aid procedures
- exercise mechanics
- exercise program design for strength, endurance and cardiorespiratory fitness
- weight management through exercise and nutrition
- concepts in nutrition supplements and anabolic steroids
- clinical and fitness assessment (flexibility, blood pressure, resting heart rate) and body composition
- human anatomy – introduction to the structure and function(s) of the muscular skeletal/nervous and cardiovascular systems
- anatomical terminology
- nutrition
- spinal mechanics
- flexibility, and range of motion
- the business and ethics of personal training
- mind-body exercise/mindfulness

Career Opportunities:

Upon successful completion of this course and certification exam, students will be qualified to seek employment as a nationally accredited certified personal trainer in the health and fitness industry. This profession allows for flexible schedules and for continued personal, professional and academic advancement. Typical job titles include certified personal trainer and strength and conditioning coach. Workplaces include gyms, health clubs, fitness studios, in-home training, schools, assisted living facilities, cruise ships and country clubs.

Health Care Skills

COURSE AVAILABLE:
Grades 10, 11 or 12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
Skills

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits* using either or both of the following:

0.5 credit Career and Financial Management

0.5 credit Health

This course supports New York State CDOs Credential requirements.

** Students completing 1 year of this 2-year course may receive up to 4 CTE credits OR distributed credits.*

Note: This course requires students to wear uniforms and to complete physical exams before participating in clinical rotations.

In this course, students will learn the skills needed to prepare for basic, entry-level jobs in a variety of health-related occupations. They will study anatomy, physiology and microbiology, and learn to understand and implement universal precautions. Students will also develop effective communication skills and the ability to work in a team environment. Computer modules are incorporated into class work.

Students Will Learn:

- sterilizing procedures and infection control
- patient wheelchair transport
- bed to wheelchair transfer
- preparing an open/closed hospital bed
- taking and recording pulse, blood pressure and temperature
- measuring height and weight
- understanding nutrition and special dietary needs
- body mechanics
- anatomy and physiology
- basic medical terminology



Career Opportunities:

Upon completion of this course, students will be able to work in several non-licensed entry-level positions in hospitals, clinics, dietary departments, adult day treatment centers and nursing homes. Graduates may opt to attend a post-secondary institution or college to continue their education in a health career field. Typical job titles in healthcare include transport assistant, transporter, bed and bath team member, hospital bed maker, adult day treatment counselor, patient communicator and dietary aide.

Upon completion of the required training and exams, students will have the opportunity to be certified in CPR and Heart Saver/First Aid through the American Heart Association.

Work Experience Opportunities:

Students in this course reinforce their skills in a supervised, clinical environment at a hospital or nursing home.

Those who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days and internships at workplace sites such as:

- Cold Spring Hills Center for Nursing and Rehabilitation

Medical Assisting

COURSE AVAILABLE:

Grades 11–12

COURSE LENGTH:

2 years

PLACEMENT:

General

CREDITS:

Up to 4 CTE credits a year

ADMISSIONS CRITERIA:

Strong science background with above-average academic skills. A background check may be required for internship settings.

EARNING HIGH SCHOOL CREDITS:

Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit Science

1.0 credit English

0.5 credit Health

1.0 credit Math–Specialized

This course is certified by New York State.

This course supports New York State CDOS Credential requirements.

Note: In the 2nd year eligible, students must wear uniforms and complete physical exams before participating in required clinical rotations.

LOCATION:

**Barry Tech
or GC Tech**

Through extensive hands-on instruction, students will acquire skills to assist doctors in all phases of medicine and skills needed for medical and allied health careers. They will learn vital signs, blood pressure, infection control, instrument and tray set ups, professional communication, law and ethics. They will also learn to use computerized EKG machines, specimen collection, urology testing and throat culture. Computer applications are also part of the curriculum.

Potential Medical Assistants Will Learn Skills:

- conducting hearing and vision screenings
- performing allergy tests and immunization
- preparing and administering oral and injectable medications
- assisting in physical and gynecology exams
- instrument identification
- capillary puncture
- EKG
- infection control



They Will Be Instructed in:

- 21st century healthcare
- anatomy, physiology and nutrition
- medical terminology
- human growth and development
- CPR, first aid and emergency preparedness
- sterilization of instruments
- patient preparation
- medical specialties
- diagnostic imaging
- pharmacology

Career Opportunities:

Medical Assisting is one of the fastest growing fields in the U.S. today. With the increasing demand for healthcare and the growing changes in the medical field, the role of the medical assistant has expanded and is in high demand. Students who complete this course will be qualified to work in a variety of entry-level positions, such as clinics, emergency care centers, health centers, hospitals, physician's offices, medical labs, public health systems, schools and blood banks.

At the end of the second year of this program, qualified students in good standing have the opportunity to sit for the Certified Health Professionals National Certification in Medical Assisting. Those who pass and graduate from high school will receive their certification in medical assisting. This course offers an excellent foundation for college-bound students interested in health careers such as pre-med, scientific or medical research, physician's assistant, nursing, medical tech, EMT, pharmacology, respiratory therapy, radiology, physical therapy, lab technology, X-ray tech, sonography, and medical office administration. Typical job titles in this field include medical assistant, medical receptionist, office assistant, ICD-9-CPT coder, medical biller and ward clerk.

Upon completion of the required training and exams, students will have the opportunity to be certified in CPR, Heart Saver/First Aid through the American Heart Association.

Students may be certified in:

First Aid & CPR - Certified Health Professional

College Agreements:

Upon completion of this course, students may receive college credits subject to entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- Monroe College

Work Experience Opportunities:

Students who reach all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites such as:

- Nassau University Medical Center (NUMC)
- RSC Cardiology/North Shore LIJ
- Winthrop University Hospital
- various doctors' offices
- Zwanger-Pesiri Radiology

Nurse Assisting

COURSE AVAILABLE:
Grades 11 – 12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Strong science background with above-average academic skills. A background check may be required for internship settings.

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit Science

1.0 credit English

0.5 credit Health

1.0 credit Math–Specialized

This course is certified by New York State.

This course supports New York State CDOs Credential requirements.

Note: Students must wear uniforms and complete physical exams before participating in clinical rotations.

Healthcare careers are in great demand in the 21st century. Students in this course will develop the skills and understanding needed to care for patients/residents in various healthcare facilities. They will be able to apply the skills learned in a supervised clinical setting, taking their first step on the career ladder of the nursing profession. Responsibilities are centered around all bedside care under the direction of the registered nurse (RN), includes patient care skills, infection control principles, safety measures and proper communication techniques, as well as the proper use of all types of equipment used in healthcare facilities. Students will learn about the human body and how to care for patients/residents with various medical conditions. Critical thinking and problem-solving skills will be taught, as well as organizational and time management skills. Students will learn about diversity in the workplace and how to treat patients/residents with respect and dignity. Students will learn basic nursing care, as well as specialized care (e.g., care to patients/residents with sensory impairments and speech impediments, as well as changes in nutritional needs.)



After 2 years, students will have the knowledge and skills necessary to take the New York State Certified Nurse Assistant (CNA) exam.

Students Will Practice the Essentials of Patient Care, Including:

- taking vital signs
- transferring and positioning of patients
- bed making
- assisting with patient feeding
- assisting patient with personal hygiene (bathing, grooming and dressing)
- collecting specimens
- catheter care

Students Will Learn:

- anatomy and physiology
- medical terminology
- nutrition and fluids
- growth and development, geriatrics
- CPR, first aid, and common health issues
- 21st century healthcare changes
- hearing, speech and vision problems

Career Opportunities:

Nurse assistants are in great demand in today's world. Graduates may work in a hospital, nursing home, home care agency, adult home, clinic or assisted living facility.

After completion of 900 hours of instruction (including 108 clinical hours in a nursing home and hospital setting), eligible students may take the New York State Certified Nurse Assistant (CNA) exam. (Students must be US citizens to take the exam) Those who pass are qualified for employment

as certified nurse assistants. Graduates can continue study in nursing or pre-med, leading to licensure as an LPN, RN nurse practitioner, or nurse anesthetist.

Upon completion of the required training and exams, students will have the opportunity to be certified in CPR, Heart Saver/First Aid through the American Heart Association.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria necessary. Current college agreements include:

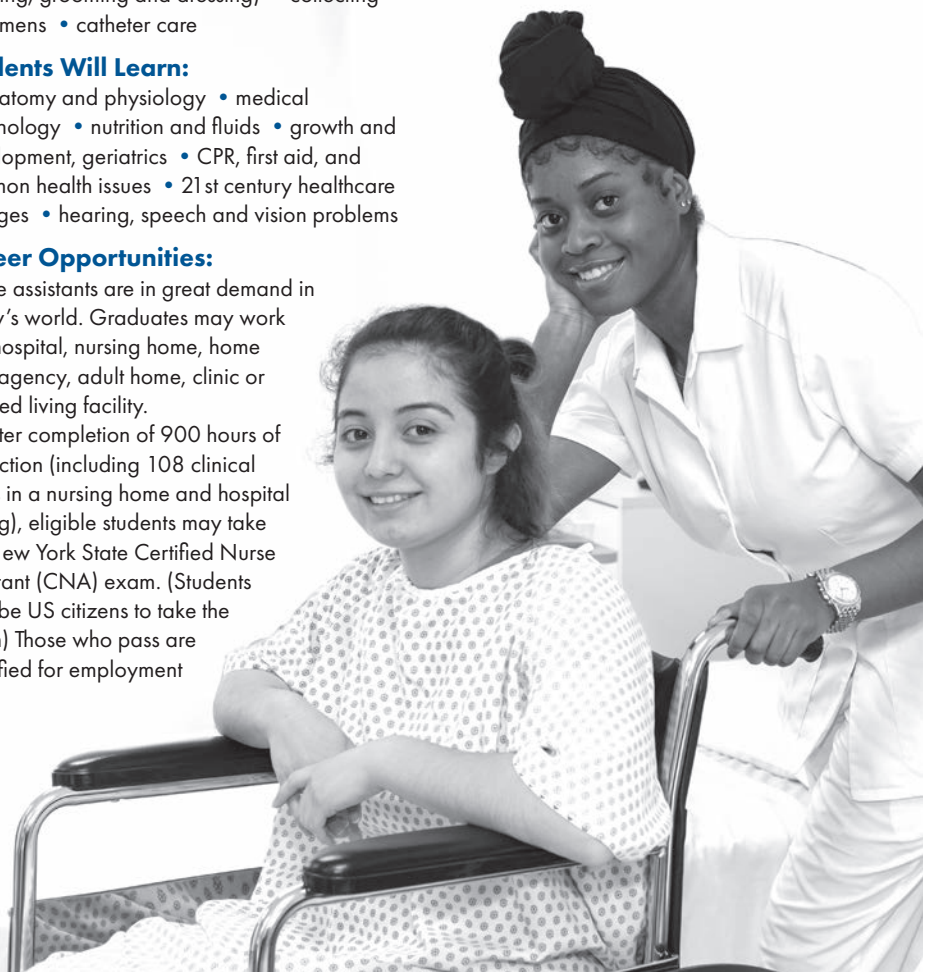
- Monroe College

Work Experience Opportunities:

In this course, students will have the opportunity to participate in a supervised clinical rotation in a nursing home and a hospital setting.

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites such as:

- Southshore Nursing & Rehabilitation
- South Nassau Community Hospital



Physical Therapy Aide and Rehabilitation Medicine

COURSE AVAILABLE:
Grades 11–12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Science background strongly recommended. Course may require heavy lifting.

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit Science

1.0 credit English

0.5 credit Health

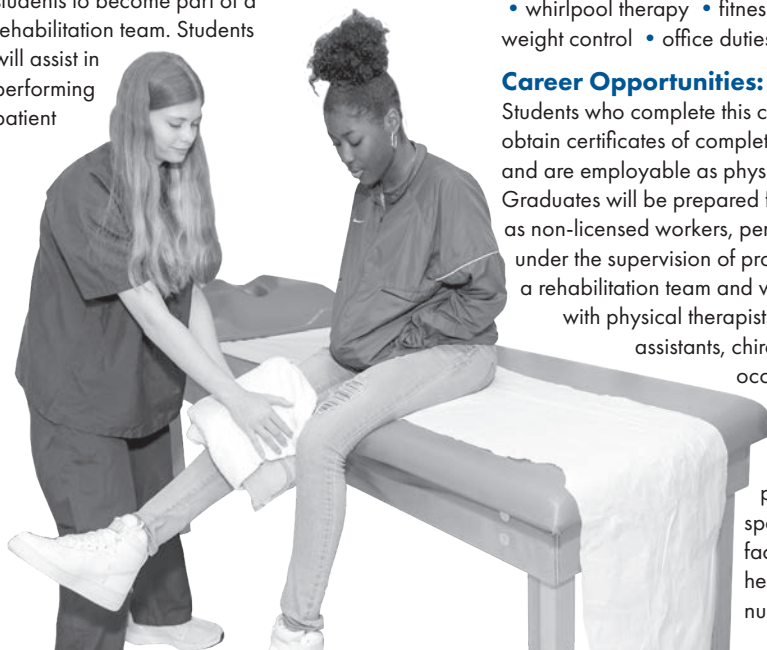
1.0 credit Math–Specialized

This course is certified by New York State.

This course supports New York State CDOs Credential requirements.

Note: This course requires students to wear uniforms and to complete physical exams before participating in clinical rotations.

Physical therapy helps patients regain function and improve mobility, relieve pain and prevent permanent physical disabilities by restoring, maintaining and promoting overall fitness and health. This entry-level course will prepare students to become part of a rehabilitation team. Students will assist in performing patient



positioning and range-of-motion exercises while developing an understanding of both applications. Students will learn theoretical concepts and practice skills, then move into a patient care setting where they will gain firsthand experience with patients and hone their skills.

Therapy Aides-in-Training Will Learn:

- how to treat many populations including children, athletes, the elderly and people with health-related conditions
- anatomy and physiology
- medical terminology
- how to measure vital signs
- range-of-motion exercises
- use of canes, crutches and walkers
- massage therapy
- hot packs/ice applications and sports medicine
- stretches/strengthening exercises
- whirlpool therapy
- fitness, nutrition and weight control
- office duties

Career Opportunities:

Students who complete this course are eligible to obtain certificates of completion from Barry Tech and are employable as physical therapy aides. Graduates will be prepared for employment as non-licensed workers, performing tasks under the supervision of professionals within a rehabilitation team and working closely with physical therapists, physical therapy assistants, chiropractors and occupational therapists.

Physical therapy work in a variety of including hospitals, private practices, sports medicine facilities, schools, home health agencies and nursing homes. Many

graduates continue their education and pursue an associate or bachelor's degree in physical therapy, occupational therapy, massage therapy or other health-related service careers. Typical job titles in the field of physical therapy include physical therapy aide, rehabilitation aide and occupational therapy aide.

Upon completion of the required training and exams, students will have the opportunity to be certified in CPR, Heart Saver/First Aid through the American Heart Association.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- Nassau Community College (These credits can be transferred to any college in attendance in the future.)

Work Experience Opportunities:

In this course, theory is applied in clinical affiliations with various healthcare institutions. Professionals from many rehabilitation disciplines deliver presentations that orient students to their individual roles. Students will gain hands-on experience in a hospital or private practice.

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships or paid Co-Op experiences at workplace sites such as:

- Nassau University Medical Center (NUMC)
- North Shore Hospital
- private practices
- sports medicine facilities
- schools



HUMAN AND PUBLIC SERVICES

**Barbering Technician • Cosmetology • Culinary Arts •
Culinary Arts Skills • Childcare Skills • Police Science and
Criminal Justice**

Barbering Technician

COURSE AVAILABLE:
Grades 11 or 12

LOCATION:
Barry Tech

COURSE LENGTH:
1 year

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits

EARNING HIGH SCHOOL CREDITS:
Students completing this 1-year course may receive up to 4 CTE credits OR distributed credits:

0.5 credit Career and Financial Management

1.0 credit English

This course supports New York State CDOS Credential requirements.



This course combines classroom instruction and laboratory opportunities that will develop academic and professional knowledge and skills. The curriculum is designed to give an overview of the barbering industry, licensing and the opportunities for professional growth. The program emphasizes training in safety, sanitation, shaving, hair cutting, reception and sales, and will create opportunities for small business ownership.

Students who successfully complete 500-hours will be eligible to sit for the New York State Licensing Exam. Participants must be at least 17 years of age to take the New York State Barbering Licensing exam. Students may be able to receive American Heart Association's CPR and First Aid Certification.

Career Opportunities:

Upon completion of this course, students will be qualified to seek entry-level positions in the personal care and barbering industries, while allowing for continued personal academic and professional growth. Students will be able to work as barbers, start their own barbering business or participate as a sales representative in the barbering industry.

- Neat & Complete Barber Shop
- New Paru Haircutters

College Agreements:

Current college agreements include:

- Mercy College (dual enrollment)

Cosmetology

COURSE AVAILABLE:
Grades 11–12

LOCATION:
Barry Tech
or GC Tech

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Students must demonstrate good fine motor dexterity

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit Math–Specialized

1.0 credit English

1.0 credit Science

This course is certified by New York State.

This course supports New York State CDOS Credential requirements.

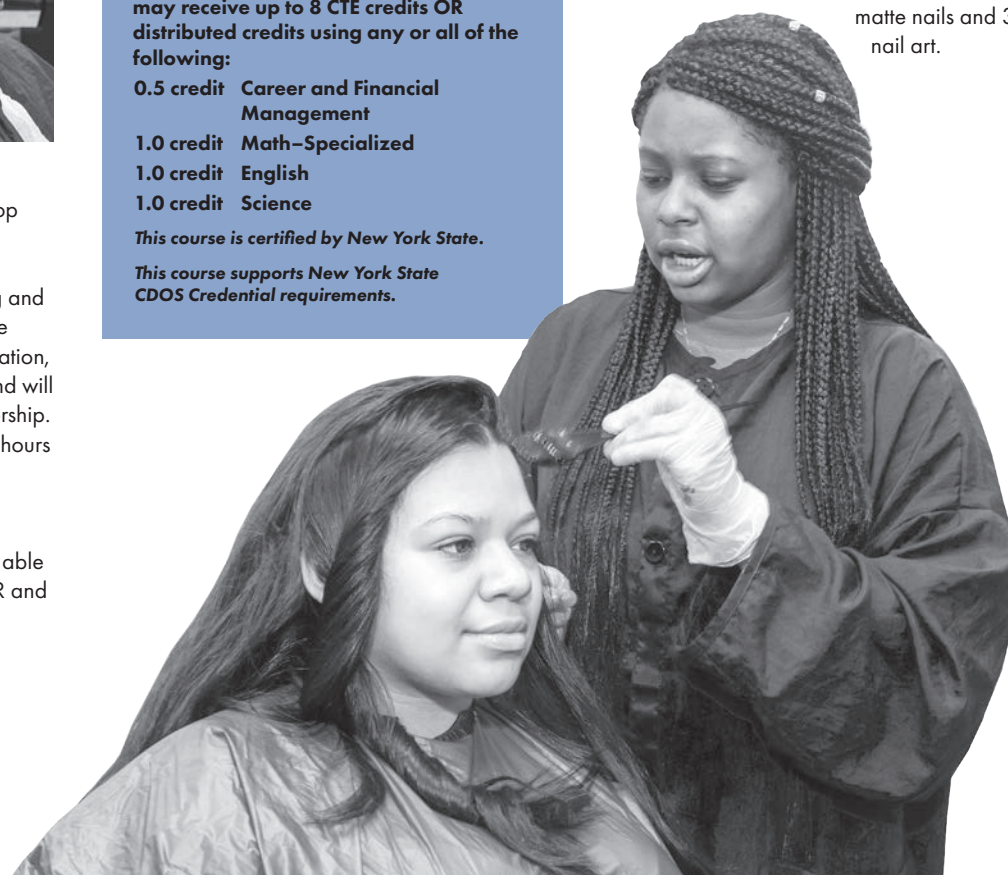
The curriculum consists of 1,000 hours of both written and practical training. It covers all phases in the field of cosmetology including the newest innovative techniques and methods allowing students to develop their creative skills. Students will be prepared for a rewarding and profitable entry into the growing beauty industry. Cosmetology prepares students for their New York State Board Cosmetology exams, which they must pass in order to become licensed cosmetologists in New York State.

Students Will Learn a Number of Skills in a Wide Variety of Areas, Including:

- highlighting and hair coloring techniques such as ombre, balayage, foiling, special effects color
- makeup techniques including highlighting and contouring, eyelash application, winged eyeliner, smoky eye, foundation matching, color correction, SFX (special effects), eyebrows
- performing complete makeovers including fun daytime looks, glamorous night-time looks and more.

Young Stylists Will Also Learn:

- skin care
- facials
- eyebrow waxing and shaping services
- styling hair for special events or prom
- performing all haircuts including blunt haircut, layered haircut, angels, v-cut, bangs and more
- applying hair extensions using techniques such as sew-in, tape-in, clip-in, micro beads, and more
- manicuring techniques including nail shaping, fashion forward nail art such as an ombre look, matte nails and 3D nail art.





Career Opportunities:

Beauty-related careers offer flexible hours and opportunities to work from home or to own shops or spas. Many graduates attend college and often use their skills to help pay expenses.

Typical job titles in the field of cosmetology include hair color technician, hair cutting technician, hairdresser's assistant, hair stylist, makeup artist, nail technician, salon manager or owner, scalp/hair specialist, skin care technician, teacher, waxing technician and wig technician.

In addition to learning skills in the cosmetology field students learn other professional skills such as creating resumes, building digital online portfolios (websites), business and money management and communication skills. This is a New York State approved 1,000-hour cosmetology course that qualifies students to take the state licensing exam.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- Five Towns College
- Mercy College (Dual Enrollment)

Work Experience Opportunities:

During the second year of this program, the classroom becomes a professional salon environment. Students will have the opportunity to execute their new found skills on clients. In addition, students will have in and out-of-house demonstrations from the fields top professionals such as MAC makeup artists, stylists, salon and other business owners.

Students will be connected to industry professionals for networking opportunities as well as job placements.

Students who meet all eligibility requirements may participate in supervised, real-world, extended classroom experience, work-based learning offerings that include clinics, job shadow days and internships at workplace sites such as:

- Creative Designs Salon
- EHD Hair Design
- Hair Above Salon
- Lourdes Unisex
- Studio L 516
- MAC Cosmetics
- OPIA Hair & Makeup Studio

Culinary Arts

COURSE AVAILABLE:
Grades 11–12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:

Students need to have good fine and gross motor skills, as well as be at grade level for math and English

EARNING HIGH SCHOOL CREDITS:

Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

0.5 credit Career and Financial Management

1.0 credit Math–Specialized

1.0 credit English

1.0 credit Science

This course is certified by New York State.

This course supports New York State CDOS Credential requirements.

Students enrolled in this course will learn the art and science of quality food preparation and service. Our learning environment has been praised by industry experts as having one of the most sophisticated facilities in the country. Aspiring chefs will develop a solid foundation of cooking skills through actual work experience using standard recipes.

Not only will our students learn all the basic and advanced techniques, they will study safety, sanitation, and nutrition, as well as the Nassau County Board of Health regulations. Our young chefs will also prepare food for actual catered affairs including luncheons, conferences and parties.

Students Will Learn How to:

- develop knife skills
- create vegetable cuts and cooking skills
- use and maintain equipment
- plan and price menus
- purchase commodities
- leadership and teamwork skills
- to deal with customers, purveyors, and staff effectively

They Will Prepare:

- stocks, soups and sauces from scratch
- meats, poultry, fish and vegetables
- rice, pastas, potatoes and a variety of grains
- salads and dressings
- baked goods including rolls, breads, cakes, cookies, pies and muffins

Career Opportunities:

After graduation, students may elect to attend a 2- or 4-year college to further develop their culinary skills, or study food and nutrition or other hospitality subjects. Typical job titles in the culinary field include prep person, cook, short order cook, baker's assistant and steward.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current relationships include:

- Johnson & Wales University
- Nassau Community College
- New York Institute of Technology
- SUNY Cobleskill
- Stratford University

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships, or paid Co-Op experiences at workplace sites.

Certifications Available:

- ACF certified culinary graduate and certified junior culinary



Culinary Arts Skills

COURSE AVAILABLE:
Grades 10, 11 or 12

COURSE LENGTH:
2 years

PLACEMENT:
Skills

CREDITS:
Up to 4 CTE credits a year

CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits* using any or all of the following:

0.5 credit Career and Financial Management
1.0 credit Math-Specialized
1.0 credit English
1.0 credit Science

LOCATION:
Barry Tech

Culinary Arts students enrolled in this course will learn the art and science of quality food preparation and service. Our learning environments have been praised by industry experts as having one of the most sophisticated facilities in the country. Aspiring chefs will develop a solid foundation of cooking skills through actual work experience using standard recipes. Not only will our students learn all the basic and advanced techniques, but also they will study safety, sanitation, and nutrition, as well as the Nassau County Board of Health regulations. Our young chefs will also prepare food for actual catered affairs including luncheons, conferences and parties.

Students Will Learn:

- knife handling and cooking
- purchasing and storeroom procedures
- customer service
- technical math and professional development

They Will Prepare:

- stocks, soups and sauces from scratch
- meats, poultry, fish and vegetables
- rice, pastas, potatoes and a variety of grains
- salads and dressings
- baked goods including rolls, breads, cakes, cookies, pies and muffins

After graduation, students may elect to attend a 2- or 4-year college to further develop their culinary skills, or study food and nutrition or other hospitality subjects. Typical job titles in the culinary field include prep person, cook, short order cook, baker's assistant and steward.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established.

Current Agreements:

- New York Institute of Technology
- SUNY Cobelskill



Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real world, work-based learning offerings that include clinics, shadow days, internships, or paid Co-Op experiences at workplace sites.

Certifications Available:

- ACF Certified Fundamentals Cook
- American Heart Association
- CPR
- First Aid



Child Care Skills

COURSE AVAILABLE:
Grades 10, 11 or 12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
Skills

CREDITS:
Up to 4 CTE credits a year

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits* using any or all of the following:

0.5 credit Career and Financial Management

This course supports New York State CLOS Credential Requirements.

** Students completing 1 year of this 2-year course may receive up to 4 CTE credits OR distributed credits.*

In this course students will develop the skills needed to enter the Child Care profession.

The course will provide students with a foundation in the principles of child development, basic health and safety, and training in the care of infants, toddlers and preschoolers. They will learn about the physical, social, emotional and cognitive development of each of the above-listed age groups. The course encourages both discussion and demonstrations of skills. Part of the curriculum will also include guest speakers such as the Safe House, Cornell Cooperative Extension, school directors and former students. Upon course completion and teacher evaluation, students may have the opportunity to be admitted to the two-year CTE Early Childhood Education program.



Outcomes:

Upon completion of the course and final exams, students will receive certification by the American Heart Association in CPR and First Aid. In addition, students may complete a Cornell Cooperative Extension Expanded Food & Nutrition Education Program and receive a certificate of completion, and may be enrolled in the Barry Tech Early Childhood Education program.

Visitations:

During the year, the class will visit local day cares and pre-schools. These may include: Harbor Child Care Center, Bethpage Nursery School and the Greenhouse at Nassau Community College. The visitations will offer the opportunity to further learn about the varied educational settings in our area. Job shadowing opportunities may also be available. Students will have weekly visitations from the Preschool program at Barry Tech.

Students Will Learn How To:

complete a babysitting binder • develop a resume and learn the steps involved in finding and applying for a job in the child care field
• practice and develop effective communication skills to enable them to work with both parents and co-workers in a collaborative team effort
• participate in computer and technology projects and lessons related to early childhood development
• develop a personalized portfolio that aligns to the NYS Pre-School Common Core Learning Standards
• create lessons and learning projects for infants, toddlers and preschoolers

Work Experience Opportunities:

Long Island has an increased demand for people trained to work in the child care field, as there is an increase in both single family homes and dual-income families. As the pre-school education increases, so does the increased need for people prepared in the child care profession. Some of the possible career opportunities after this one- or two- year course are:

• babysitters • parent helpers • camp counselors • child care aides • child care assistants • teacher aides

Advantages of Child Care Careers:

• opportunity to fill a meaningful societal need
• daily interaction with people and the practical application of knowledge
• flexible work scheduling
• allowance for continued personal and professional growth based on goals and abilities
• have a challenging and fulfilling career
• a first step on an early childhood education career path



Early Childhood Education

COURSE AVAILABLE:
Grades 11–12

LOCATION:
Barry Tech

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Above-average reading comprehension and strong writing skills. A background check may be required to be eligible for internships.

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using either or both of the following:

0.5 credit Career and Financial Management

1.0 credit English

This course is certified by New York State.

This course supports New York State CDOs Credential requirements.

This course qualifies for the CTE 4+1 Pathway.

In this course, students will learn the basics and methodology of Early Childhood Education and Child Development. This course provides students with a solid foundation in classroom arrangement management and curriculum development for infants/toddlers/preschoolers and young children. They will study the fundamentals of working with parents and staff in a school setting. Research findings state that early years are a critical time for the physical, cognitive and social/emotional development of children.

Students will learn the fundamentals of how a child develops and prepare for entry-level employment in Early Childhood Education. Year one students will be visited by experts in fields such as: Safe Center, Cornell Cooperative Extension and local nursery and day care directors. In addition, numerous visitations to local day care and nursery schools will be planned. Students will also gain experience working with children with special needs. They will work with students from Nassau BOCES Childrens Readiness Center in a weekly collaboration.



Year two students will earn hours of formal child care education experience necessary to apply for the certification as a CDA: Child Development Associate. This course may also be used towards the 480 hours of experience working directly with children in group settings required for CDA certification. The CDA is a nationally recognized degree. In addition, year two students will complete 120 hours needed of CDA training for their CDA professional portfolio, including six competencies and resources, which is a necessary component towards achieving their CDA. Upon graduation from high school, students 18 years or older are eligible to apply for their CDA certification. This application is made independently by the student at his/her own expense.



Certified CDAs-in-Training Will Learn How to:

- maintain professionalism
- observe and record behavior
- establish an effective program operation

Career Opportunities:

Corporations and government agencies often hire trained personnel for their on-site day care centers. Many graduates pursue further education at the college level to study early childhood or elementary school education. Typical job titles in the field of child development include teacher aide, teacher assistant and assistant teacher in a nursery school.

Upon completion of the required training and exams, students will have the opportunity to be certified in Heart Saver/First Aid through the American Heart Association.

College Agreements:

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- Monroe College
- Nassau Community College
- SUNY Cobleskill

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships, or paid Co-Op experiences at workplace sites such as:

- Bethpage Nursery
- ACDS
- Harbor Day Care Center
- Head Start
- Montessori School
- Carousel Day School
- Brookville Center for Children Services

Police Science and Criminal Justice

COURSE AVAILABLE:
Grades 11–12

COURSE LENGTH:
2 years

PLACEMENT:
General

CREDITS:
Up to 4 CTE credits a year

ADMISSIONS CRITERIA:
Strong verbal, reading, social, communication and problem solving skills

EARNING HIGH SCHOOL CREDITS:
Students completing this 2-year course may receive up to 8 CTE credits OR distributed credits using any or all of the following:

- 0.5 credit Career and Financial Management
- 1.0 credit Math–Specialized
- 1.0 credit English
- 1.0 credit Science
- 0.5 credit Participation in Government

This course is certified by New York State.

This course supports New York State CDOs Credential requirements.

This course qualifies for the CTE 4+1 Pathway.

Note: In order to be accepted into this course, students must have good academic and behavior records. An interview may be required.

LOCATION:
Barry Tech
or GC Tech



Students Will Learn:

- UAV Drone Operation • LiDAR speed enforcement • handcuffing techniques
- fingerprinting skills • emergency response techniques • private security systems
- communications skills • forensic lab techniques • police tactics • crime scene investigation techniques • security business operations • court systems and correctional facilities • paralegal skills • mock trial skills

Students Can Be Certified in:

- NYS 8-hour Security Guard Course • NYS 16-hour Security Guard Course • American Heart Association Heart Saver/First Aid/CPR
- Various FEMA Courses

Career Opportunities:

Increased government and industry interest in designing and monitoring security systems, as well as anti-terrorism tactics, contribute to the growing job outlook in criminal justice and law enforcement. Graduates often continue their studies at a 2- or 4-year college, pursuing additional education to expand their career opportunities. Typical job titles in this field include police officer, corrections officer, probation officer, social worker or store detective. Men and women employed in criminal justice and law enforcement work with police departments, court systems, corrections facilities, military police and private security agencies.

College Agreements

Upon completion of this course, students may receive college credits subject to the entrance requirements of each institution and any additional criteria that may have been established. Current college agreements include:

- Cazenovia College • Farmingdale State College • Herkimer County Community College • Monroe College • Nassau Community College

Work Experience Opportunities:

Students who meet all eligibility requirements may participate in supervised, real-world, work-based learning offerings that include clinics, shadow days, internships, or paid Co-Op experiences at workplace sites such as:

- American Red Cross • Barry Tech's Joe's Corner Store • Nassau BOCES George Farber Administrative Center • Nassau County Executive Office • Nassau County Police Department • New York State Assembly
- Nassau County Family Court

Students in this course will be introduced to the laws, practices and techniques necessary to work in the criminal justice system. Students will become familiar with the New York State court and corrections systems, police organizations and private security. Students will develop the skills needed to deal with social situations and security requirements as they affect the community, students will learn cultural awareness and how to diffuse and deescalate. They will learn through hands-on, real-world activities such as mock trials, demonstrations, police patrol functions, field trips and lectures from guest speakers.



ALTERNATIVE EDUCATION PROGRAMS



Twilight High School

The Twilight Alternative High School provides an alternative setting in the late afternoon for students who have not succeeded in the traditional educational setting. The program gives teenagers the necessary tools to either return successfully to their home high schools, or to complete their high school requirements, while helping them prepare for post-secondary education or employment.

Students attend this Regents-based program in the late afternoon in their home school district. Students receive strong educational support, as classes are small and largely focused on the students.

In-District CTE

As part of the Twilight Alternative High School districts may also opt to offer an in-district CTE program. Districts can host or replicate a number of CTE programs in their district as long as they share the teacher with another district or one of our CTE schools. The courses are developed and delivered in the local high school by Nassau BOCES. The courses are taught by a Nassau BOCES teacher, with Nassau BOCES supervision, utilizing a New York State Education Department (NYSED)-approved career and technical education (CTE) curriculum, equipment, work-based learning and college articulations, etc.

Programs are currently available in:

- Baldwin (with CTE)
- Bellmore-Merrick (HSE Only)
- East Rockaway
- Freeport
- Glen Cove (HSE with ELL support)
- Hewlett-Woodmere
- Hicksville
- Massapequa
- Plainview-Old Bethpage
- Uniondale (HSE and Regents level)
- Wantagh

Work-Based Learning

Work-based Learning is the “umbrella” term used to identify activities which collaboratively engage employers and school districts in providing structured learning experiences for students in the work environment. These experiences focus on helping students to develop broad, transferable skills for post-secondary education and the workplace.

Districts employ a certified Work-based Learning (WBL) coordinator who provides students with real-life work experiences where they can apply academic and technical skills and develop their employability skills. The WBL coordinator is typically split between two districts and works 2-days in each district. They have an opportunity to work with a variety of students including students who are pursuing a CDOS credential or who are in need of employment. The WBL coordinator has established many connections in the community in which to “place” students for job shadowing or internship experiences. Many of those experiences turn in to actual paid employment.

2020-2021 Participating Districts

- Baldwin
- Hicksville
- Westbury



NASSAU BOCES CTE BARRY TECH CURRICULUM

Districts can host or replicate a number of Barry Tech programs in their district as long as they share the teacher with another district or Barry Tech. The courses are developed and delivered in the local high school by Nassau BOCES. The courses are taught by a Barry Tech teacher, with Nassau BOCES supervision, utilizing a New York State Education Department (NYSED)-approved career and technical education (CTE) curriculum, equipment, work-based learning and college articulations, etc.

Courses may include:

- Certified Personal Trainer—Exercise Science (using the school's gym equipment)
- Computer Game Design and Programming
- Medical Assisting
 - Long Beach
 - Uniondale
- Nurse Assisting
- Police Science and Criminal Justice

District currently with In-District programs include:

- Baldwin
- Hicksville
- Lawrence
- Roosevelt

For more information

contact:

**Judith A. Hynes at
516-396-2392 or**



email jhynes@nasboces.org

SUMMER PROGRAMS

Regional Summer School

Any two school districts that house their summer school population at a common site may participate in the Nassau BOCES Regional Summer School on a BOCES-aidable basis. The courses offered at any particular site are determined by the participating school districts in collaboration with Nassau BOCES, and may include remedial secondary courses and short-term academic or exploratory enrichment subjects at the elementary and secondary level.

The Regional Summer School enables students to enrich their education through additional courses; make up work for courses they failed or were unable to complete during the school year; complete high school programs in less than the time normally required; or improve their competencies in basic skills. It also provides for the administration of Regents exams in accordance with the Commissioner's regulations.

For more information contact:

Judith A. Hynes at 516-396-2692 or email jhynes@nasboces.org



Nassau BOCES and Hofstra Summer Camps

The Hofstra University Nassau BOCES partnership offers a wide selection of amazing learning opportunities for teens, featuring hands-on classes that provide real life and situational training that can jumpstart a successful career. A fantastic way to gain experience in a desired career or discipline, Hofstra Nassau BOCES programs have something for everyone.

Programs offered at Barry Tech include Aviation, Construction Trade, Culinary Arts academies. There is also a Mechanical and Automotive Institute, as well as Veterinary, Outdoor Education and STEAM courses. Four summer sessions are offered.

Session 1: June 27 - July 8

Session 2: July 11 - July 22

Session 3: July 25 - August 5

Session 4: August 8 - August 12

The Long Island High School for the Arts Summer programs include Filmmaking and Special Effects, Music, Theatre and Visual and Media Arts and Graphic Design.

Visit www.nassauboces.org/summer for more details.

Registration is through Hofstra,

contact Jessica Dease, Program Coordinator

at Jessica.Dease@hofstra.edu, or call 516-463-7676.

ADULT EDUCATION

Nassau BOCES Adult Education helps to educate the whole family, from our Parent-Child+ program to the Adult Learning Center, Adult Career & Technical Education training and finally career and employment assistance.

Adult Learning Center

Located in Levittown, Westbury and several satellite locations throughout Nassau County, the Adult Learning Center offers classes for adults over the age of 18 who want to become more employable by improving their English language skills obtaining their high school equivalency diploma.

The program offers:

English as a Second Language (ESL)

Students whose native language is not English have the opportunity to improve their speaking, listening, reading and writing skills.

- Classes are for adults over 18.

Registration, book and software fees apply

Adult Basic Education (ABE)

This program helps students improve their reading, writing and math skills. Students learn at their own pace with individualized study programs and advance to the High School Equivalency (HSE) preparation program upon completion.

High School Equivalency (HSE)

This program prepares students to earn a New York State High School Equivalency Diploma by successfully completing the Test Assessing Secondary Completion (TASC) exam.

Pathways to Employment for English language Learners (PEELL)

This program includes career training classes that provide the basic knowledge of a trade and prepares student for an entry level position. An ESL component class focuses on the specific language for each trade. Classes are held throughout the year in the following areas: Automotive, dental assisting, plumbing and home health aide.

Eligibility for ABE or HSE

- Classes are for adults over 18.

Registration, book and software fees apply

**For more information call 516-622-5623
or email Learningenglish@nasboces.org or
Getyourdiploma@nasboces.org**



Adult Career & Technical Education (Adult CTE)

Offers in-person and on-line classes for adults who want to train for a new career in Animal Services, Automotive Technology, Construction Trades, Cosmetology, Culinary, Health Occupations and Manufacturing.



**For more information call 516-622-6950
or email adultreg@nasboces.org**

Career & Employment Center

A team of professionals are available to work with adult learners to assist in finding them a meaningful career.

The center offers;

- Career Assessments
- Resume writing
- Interview techniques
- One-on-one support
- Job postings
- Employment application assistance



Professional skills are incorporated into in class. They include: realistic expectations, customer service and trade tips from industry professionals.

**For more information call 516-622-6860
or email findajob@nasboces.org
to make an appointment**

Parent-Child +

Promotes the development of educationally at-risk, pre-school children, by sending trained home visitors into homes to help parents become their children's first teacher and make home their first classroom. Parents can increase children's vocabulary through reading, and play and assist children to develop pre-literary skills so they will be on par with their peers when they enter Pre-K. Books and toys foster language development and pre-literacy skills. Research shows children continue to achieve academically at the same level or better through the 4th-8th grades standardized tests.



**For more information contact
Regional Farinaccio at 516-622-6807
or email her at RFarinaccio@nasboces.org**



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Non-discrimination Statement

The Nassau BOCES advises students, parents, employees and the general public that it offers employment and educational opportunities without regard to age, color, creed, disability, familial status, gender, gender expression, gender identity, marital status, military/veteran status, national origin, predisposing genetic characteristics, race, religion (including religious practice and/or expression), sex (including pregnancy, childbirth, or related medical condition), sexual orientation or victim of domestic violence status. The Nassau BOCES shall provide equal access to the Boy Scouts and other designated youth groups.

The Nassau BOCES shall not discriminate or take any retaliatory action against an employee with respect to compensation, terms, conditions or privileges of employment because of the employee's or dependent's reproductive health decision-making.

Information and grievance procedures are available by contacting the following individuals at 71 Clinton Rd., Garden City, NY 11530: Thomas McGrath, Executive Director of the Department of Human Resources at 516-396-2358, tmcgrath@nasboces.org, Dr. Peter A. Nicolino, Assistant Director of the Department of Human Resources at 516-396-2351, pnicolino@nasboces.org and/or Selma Stoddard, Esq., Attorney (Employee Relations), Department of Human Resources at 516-396-2360, stoddard@nasboces.org. For further information, please see Policies 0100 Equal Opportunity and Non-Discrimination; 0110 Sexual Harassment and 0115 Dignity for All Students Act. The entire policy manual is available on the Nassau BOCES website: www.nassauboces.org/policies.

Inquiries concerning the application of regulations prohibiting discrimination may be referred to the above-mentioned individuals or to the following:

- Office for Civil Rights at NY Office for Civil Rights, U.S. Department of Education, 32 Old Slip, 26th Floor, New York, NY 10005-2500 or call 646- 428-3900, or fax 646-428-3843, or TDD 800-877-8339 or email OCR.NewYork@ed.gov or file form at <http://www2.ed.gov/about/offices/list/ocr/complaintintro.html>.
- The U.S. Equal Employment Opportunity Commission (EEOC) may be reached at 33 Whitehall Street, 5th Floor, New York, NY 10004 or call 1-800-669-4000, or 1-800-669-6820 (TTY), or fax 212-336-3790 or email info@eeoc.gov.
- The New York State Division of Human Rights (NYSDHR) may be reached at One Fordham Plaza, 4th Floor, Bronx, NY 10458 or call 1-888-392-3644 or 718-741-8300 (TDD/TTY) or email info@dhr.ny.gov, complaint forms may be sent directly to complaint@dhr.ny.gov or faxed to 718-741-8322.