Discover your Joseph M. Barry Career
Welcome to the Joseph M. Barry Career & Technical Education Center.

Barry Tech provides high school students with the opportunity to explore their career interests while developing the skills to become leaders both in their work and the community. We offer Career and Technical Education (CTE) programs, along with the qualifying academic credits specific to these programs. These are programs approved by the New York State Department of Education and promote success for every student. Along with our committed and experienced staff, our students are motivated and challenged to reach their highest potential.

We invite you to be part of Barry Tech because we offer:

- Programs that have state-of-the-art industry-approved technology and equipment
- College Articulations and Dual Enrollment agreements with prominent college and technical schools
- College enrollment days and our College Fair
- Real-work situations through Work-Based Learning: Shadowing, Internships, Co-Ops and Clinical Rotations
- Approved programs for the 4+1 CTE Pathways
- CDOS Credentials for students seeking an alternative pathway to graduation.

As you look through our course catalog and check out our virtual media on the website, you will learn that we are one of the most advanced and innovative Career and Technical Centers in New York State, as well as being in the forefront of the many changes in education and industry. Most of our students continue their education after graduation and have the skills to meet the demands of a high tech economy.

To learn more about the exciting world of Barry Tech, visit our website at www.nassauboces.org/barrytech, contact your high school guidance counselor to attend our “Taste of Tech” days, or call the Barry Tech office at 516-622-6812 to arrange a tour. We hope to see you soon!

Sincerely,

Peter J. Dalton, Principal
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Pupil Personnel Services (PPS)
The guidance team, social worker, psychologist and office secretaries create the bridges between Barry Tech and the home high schools, parents and a variety of support services for students. PPS ensures that all students enter programs that meet their interests, abilities and goals for completing high school and for the future. The team also serves students with disabilities and English Language Learners. For guidance information, please call 516-622-6814 or 516-622-6812.

□ This course qualifies for the CTE 4+1 Pathway
○ This course meets the requirements for CDOS Commencement Credential
We believe that success is not accidental. It is important for us as a school to teach our students values that will help them navigate the challenges of everyday life, whether in school or at home. These values will ultimately help them in their future endeavors.

The staff at Barry Tech has a vision that all students will demonstrate:

**1. DEPENDABLE CHARACTERISTICS:**
- Be reliable
- Be trustworthy
- Be dedicated to your work

**2. RESPONSIBLE WORK HABITS:**
- Be on time (Be punctual)
- Be positive in your approach to work
- Be productive

**3. RESPONSIBLE BEHAVIORS:**
- Be respectful
- Be present in school
- Be accountable for your behavior and actions

**4. RESPONSIBLE DECISION-MAKING:**
- Be ethical
- Be professional and act with integrity
- Be realistic in setting goals, but strive for excellence
SkillsUSA:
This national student organization helps students develop leadership skills through involvement in a wide variety of activities and competitions.

National Technical Honor Society (NTHS):
Membership in the NTHS, America’s highest award for excellence in career and technical education, is based on academic achievement, excellent attendance and teacher recommendations.

Honor Roll:
Students with an average of 85% or higher, may be eligible for Honor Roll. Honor Roll students with a 90% average can earn High Honor Roll status.

Student of the Quarter:
Each teacher selects one student whose work ethic and class participation go above and beyond to be Student of the Quarter.

Outstanding Student Award:
Our Students of the Quarter are considered for the Outstanding Student Award, presented at the Certificate Ceremony.

Vanguard Students:
Students wanting to pursue “non-traditional” careers or careers underrepresented by their gender are supported and encouraged.

George Farber Outstanding Student Award:
One student of excellence from every Nassau BOCES school is chosen each year to receive the George Farber Award, named after our late Board President.

Career Specific Awards and Scholarships:
Many business councils, professional organizations and employers offer awards and scholarships to students who excel while at Barry Tech.

Student Ambassadors:
Students, who by their performance in the classroom and the workplace exemplify success, may be invited to be Student Ambassadors, sharing their Barry Tech experiences with incoming students and serving as guides at orientation and Taste of Tech.

Peer Mediation:
Occasionally conflicts arise during the school day. We encourage our students to train to mediate disputes, empowering them to resolve conflicts in a pragmatic, peaceful manner. These skills last a lifetime.

Community Service and Service Learning:
A Barry Tech hallmark is encouraging students to participate in community service as part of their “service learning” curriculum. This fulfills local district community service requirements.

Future Farmers of America:
This national student organization helps students develop leadership skills through involvement in a variety of activities and competitions for vocational agricultural students.

Student Government:
Each year, our students run for offices similar to Student Council in their home high schools.

Leadership Events:
Our networking and social events build and encourage friendships and team building between and among various CTE programs and Nassau County districts.

Gender-Sexuality Alliance (GSA):
A school club offering education and advocacy for students who self-identify as LGBTQ, or who identify as allies. GSA meetings model and promote tolerance and respect for all ages, regardless of ethnicity, gender-identity, or sexual-orientation.

Life at Barry Tech is as Exciting as it is Rewarding!
Work-Based Learning Experiences

Barry Tech 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 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.

ARTS AND HUMANITIES
- Adwar Video
- Alta Moda by Josephine
- Arie Signs & Awnings
- Art Institutes
- Audio Engineering Society
- BET's RIP The Runway Show
- Debbie Regan Locations, Ltd.
- Dotworks
- Elizabeth Mauro
- Evolution Design & Signs
- Fabric Depot
- Fantastic Fabrics & Promotions
- Frills & Things
- Game Builders Academy at Hofstra University
- Gold Coast Studios
- Helen Fastow
- Herald Community Newspapers/Richner Communications
- Hollywood East Entertainment
- Islip TV LLC, d/b/a MyLITV
- Jessica Meltzer
- Long Island Video Enterprises LIVE
- Madonna Cole Originals
- Marc Formisano
- Maria Tronti
- Mc Calls Pattern
- Menekshe Boutique
- Microsoft Garden City
- Mindset Productions
- Mineola Awnings & Signs
- Miss Jackie Designs
- Nassau BOCES – Communications Office
- Nassau BOCES – Graphic Arts and Printing
- Nassau County Film Office
- Panavision New York
- Printing Emporium
- Ralph Covelli
- Rock Hard Atelier
- Rubie's Costume Co.
- Runway Couture
- Sanel International Dba Charlotte Ronson
- Signarama
- Signs of Spring
- Steven Taub Productions
- The Arbor
- Video Specialists of New York, Inc.
- Yumi Kim

BUSINESS/INFORMATION SERVICES
- AHRC
- Family Bagels of Plainview
- Home Goods
- Nassau County DPW
- Old Navy
- Panera Bread
- T J Maxx
- Trader Joe's

ENGINEERING TECHNOLOGIES
- 3D Industrial
- Abalene Plumbing & Heating, Inc.
- Abbey Rent—All
- Advanced Auto Care
- Advantage Toyota
- AGL Plumbing and Heating
- American Airpower Museum
- American Welding Society
- Anze Suspension
- Autologic, US
- BMW of Freeport
- BMW of Oyster Bay
- Boilermakers Local No. 5
- BRG Electric
- Broadway Garage
- CA Technologies
- Castle Collision Centers
- Centris Group
- Century General Contractors, Inc.
- Chief Equipment
- CM Richey Electrical Contractors, Inc.
- Colvin Auto Parts & Machine Shop
- Competition Auto
- Con Edison
- Cook Industries Inc.
- Corvette Repair Inc.
- Curtiss-Wright/Target Rock
- D&D Auto Clinic
- Delta Airlines
- Donaldson Acoustics Co. Inc.
- Electrical Training Center, Inc.
- FAA Air Traffic Control JFK Airport
- FAA–AVSED Aviation & Space Ed Program
- Farmingdale State College Aviation Flight Center
- Forest Iron Works
- Garden City Jeep, Dodge, Chrysler, RAM
- Gold Contracting
- Gold Star Plumbing, Inc.
- Goodyear
- Grand Prix Jeep Subaru
- Greater NY Automobile Dealers Association
- Greenvale Electric Supply, Corp.
- Gregoris Motors
- Habitat for Humanity in Nassau County
- Harry's Auto
- High Potential Electric, Inc.
- Honda City
- House of Laurence
- IBEW Electricians Union Local 25
- Infiniti of Manhasset
- Ironworkers Local 40 & 361
- J & K Service Station
- J&M Auto Repair
- Jarro Building Industries Corp.
- JetBlue Airways Corp.
- Jiffy Lube
- Keri Coach Works
- Kidd Collision
- Legend Nissan
- Levittown Ford
- LEXUS of Massapequa
- Lexus of Rockville Centre
- Local Union 28 Sheetmetal Apprentice Training Center
- Long Island Contractors Association
- Long Island Gasoline Retailers Association
- Long Island Lawn Sprinklers, Inc.
- MAKO Plumbing & Heating
- Manning Imports
- Meadowbrook Collision Inc.
- Meineke
- Mercedes-Benz of Rockville Centre
- Merrick Dodge Chrysler Jeep
- Millennium Honda
- Millennium Toyota
- Motorworks
- MTA NYC Transit
- Nassau BOCES – Customer Care Center
- Nassau BOCES – Transportation Services
- Nassau County Association of Plumbing, Heating and Cooling Contractors
- Nassau County Department of Public Works
- Nassau County DPW/Fleet Maintenance
- Nassau County Police Department Fleet Services
- Nassau Electric League
- National Grid
- New York Times
- Nicky T's Automotive Craftsman
- Nassau of Garden City
- Nassau of Westbury
- No Frills Tire Wholesale
- Northeast Carpenters Apprentice Fund
- Northwell Health Engineering Dept.
- NRJ Plumbing & Heating
- NYFDP Aviation Floyd Bennett Field
- Oyster Bay Railroad Museum
- PEP Boys
- Phil's Body Works
- PSEG Long Island
- R.A. Krendel Contracting
- Rallye BMW
- Rallye Collision Center
- Rallye Lexus
- Rallye Mercedes Benz
- Rallye Motors
- Robert Chevrolet
- Rockville Centre GMC
- Rudco Plumbing
- RW Truck Equipment, Inc.
- Saporito Contracting, Inc.
- SAV Truck Center, Inc.
- Schwings Electrical Supply Corp.
- Sheetmetal Workers International Association Local Union No. 137
- Sid Harvey Supply, Inc.
- Snap on Industrial

Partnerships with Employers

At the very heart of Barry Tech 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.

Barry Tech 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 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.
Business/Information Services

Office Assistant Skills
Retail Skills

2019 • 2020
Office Assistant 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 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

Retail 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 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
- Barry Tech’s Joe’s Corner Store
- Trader Joe’s
- Walgreens Co.
- TJ Maxx
- Old Navy
- Home Goods
Health Services

2019 • 2020

Dental Assisting
Health Care Skills
Medical Assisting
Nurse Assisting

Personal Trainer and Exercise Medicine
Physical Therapy Aide and Rehabilitation Medicine
Dental Assisting

Students will learn the skills needed to assist in all phases of dentistry, from taking X-rays to four-handed chairside assisting, and will 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. Students will have the opportunity to work with new technology in digital radiography.

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
- sterilizing techniques
- taking, processing and mounting X-rays
- digital radiography
- following Occupational Safety and Health Administration (OSHA) guidelines and universal precautions
- maintaining computerized dental records
- 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 will be required to be paid for by the students. Many graduates attend college to pursue further education in dental hygiene, dentistry or other health-related professions, and often use their skills to help pay expenses. 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
- SUNY Broome Community College
- Plaza College

Health Care Skills

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 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 University Medical Center (NUMC)
- Newman Orthodontics
- SUNY Broome Community College
- Plaza College
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

Potential Medical Assistants
Will Learn Skills, Such as:
• 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

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.

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

Medical Assisting

COURSE AVAILABLE:
Grades 11–12
COURSE LENGTH:
2 years
PLACEMENT:
Regular
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.
This course qualifies for the CTE 4+1 Pathway.
Note: In the 2nd year, students must wear uniforms and complete physical exams before participating in required clinical rotations.

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.
Nurse Assisting

COURSE AVAILABLE:
Grades 11–12

COURSE LENGTH:
2 years

PLACEMENT:
Regular

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. The nursing assistant’s responsibilities are centered around all bedside care under the direction of the registered nurse (RN) or licensed practical nurse (LPN). Student nursing assistants will learn 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 in a nursing home and hospital setting), students may take the New York State Certified Nurse Assistant (CNA) 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:
• Cold Spring Hills Center for Nursing and Rehabilitation

Learn how nutrition impacts the environment and personal health.
Personal Trainer and Exercise Medicine

COURSE AVAILABLE:
Grades 11–12

COURSE LENGTH:
2 years

PLACEMENT:
Regular

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 course is comprehensive and cutting edge, preparing 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 designing exercise programs for the athlete, general and special populations.

Students will learn how to differentiate facts from fallacies as the relate to the human body, exercise and nutrition. 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 NCCA nationally accredited certification 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).

This coursework builds a solid foundation for educational and career interests such as athletic training, physical education, exercise science, exercise physiologist, sport psychologist, strength coach, dietician/nutritionist and associated allied health and medical careers.

Students Will Learn:
- anatomy and physiology of human performance
- 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
- functional anatomy
- medical terminology
- health and medical conditions
- mechanisms of injury
- athletic, exercise and sports-related injuries
- CPR-AED emergency and first aid procedures
- spinal mechanics
- flexibility, and range of motion
- the business and ethics of personal training
- mind-body exercise

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.

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

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.
Physical Therapy Aide and Rehabilitation Medicine

COURSE AVAILABLE:
Grades 11–12

COURSE LENGTH:
2 years

PLACEMENT:
Regular

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.

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.

GEOGRAPHY:

On Long Island, many community members suffer from injuries. 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 practical 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 aides may work in a variety of settings, 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

www.nassauboces.org/barrytech
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)
Power Sports and Small Engine Repair
Welding
Auto Collision Technician

This program integrates environmental 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. Students will also be certified in I-CAR's Professional Development Program (PDP) which is the industry standard for collision repair training. With this industry-recognized professional curriculum, students 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

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.

Auto Skills is a National Automotive Technicians Education Foundation (NATEF) certified program. All of our instructors are Automotive Service Excellence (ASE) certified.

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:
The automotive industry's demand for trained workers has consistently increased, and those who complete their automotive sequence in skills classes obtain entry-level positions in a wide variety of industry settings, including service stations, dealerships and automotive specialty businesses that include Nassau County fleet maintenance, utility companies and municipalities. Typical job titles in this field include auto parts specialist and automotive 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:
• 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 • Millenium 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

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

Automotive Technology

COURSE AVAILABLE:
Grades 11–12

COURSE LENGTH:
2 years

PLACEMENT:
Regular

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 Math
1.0 credit English
1.0 credit Science–Specialized
This course is certified by New York State.

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

Work Experience Opportunities:
Barry Tech is one of the few 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 • Gregorius Motors • Jiffy Lube • Legacy Infinity • Millennium Honda • Millennium Toyota • Paul Conte Chevrolet • Rallye Motors – BMW (Roslyn) • Westbury Toyota • NATEF (National Technicians Education Foundation)
Aviation Operations

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 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 the Nassau Flyers Flight Training Facility at Republic Airport. The college training environment prepares our students for the rigors and expectations of post-secondary education and also readies them for their future career in aviation.

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 558,000 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 personal dramatically surges. Many Aviation Operations students are pursuing careers outside of the cockpit. Such non-flying careers 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 2016 that the median income for air traffic controllers was $122,410 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. Current college agreements include:
- 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.
Carpentry

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 will prepare the student 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 Nassau County Department of Public Works, to help advance his or her career.

Computer Technology

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 the components and peripherals of a computer, as well as all the technical nomenclature unique to this area.

Students will acquire knowledge on motherboards, storage media, various 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.

Northeast Carpenters Apprenticeship Fund. Students that apply for, and are accepted into the Carpenters Union, will apprentice for 5 years while they are working as a carpenter at a rate of $20+ an hour with benefits. After successful completion of the 5-year apprenticeship program, the student graduates to journeyman status at rates of over $35 an hour. The journeyman carpenter can work regularly and still attend night classes at the training center, at no charge, to help advance his or her career.

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

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
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 • Island Drafting & Technical Institute

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:
Regular
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.

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 specific to construction electricity 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 where theory is always related to real life. 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 7 years of work experience, 2 years as an electrician’s helper and 5 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 clinics, 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

COURSE LENGTH:
1 year only

PLACEMENT:
Regular

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 will introduce 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

Construction Trades 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
- 0.5 credit Math

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

New York State Energy Star and Smart Grid efficiencies are guidelines that help clean energy solutions.
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.

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/Plumbing

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:
- site preparation
- estimation
- installation of drain, waste, vent and hot and cold water distribution systems
- protection of potable water
- heating and ventilation
- solar technology
- pipefitting
- OSHA 10 certification
- AC system operation
- climate control

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

This course of study will combine classroom theory with hands-on training in heating, ventilation, air conditioning and 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.

COURSE AVAILABLE:
- Grades 11–12

COURSE LENGTH:
- 2 years

PLACEMENT:
- Regular

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.
Network Cabling Technician/Home Technology (HTI) Integration

**COURSE AVAILABLE:**
Grades 11 or 12

**COURSE LENGTH:**
1 year

**PLACEMENT:**
Regular

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

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Power Sports and Engine Repair

**COURSE AVAILABLE:**
Grades 11–12

**COURSE LENGTH:**
2 years

**PLACEMENT:**
Regular

**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 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. Second year students will be learning about different types of powersport vehicles which include dirtbikes, all-terrain vehicles, jet skis and small marine motors. They will learn about the components and systems that make up each vehicle. The 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 about 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. Second year students will be learning about different types of powersport vehicles which include dirtbikes, all-terrain vehicles, jet skis and small marine motors. They will learn about the components and systems that make up each vehicle. The 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 about

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Learn water and energy conservation through the use of green tech installations.

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**Learnings:**
- installation, configuration, diagnosis and preventive maintenance
- networking
- design of home and commercial networks
- wireless communications for data and voice
- copper network cabling for data, voice, home entertainment and security systems
- video and audio equipment
- home lighting control
- “firestopping” – products that halt the spread of fire, smoke and/or toxic gas.

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

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**College Agreements:**
- SUNY Delhi
- University of Northwestern Ohio
- Electrical Training Center
the technological advancements being introduced by different manufacturers. They will learn how manufacturers of both small engine and recreational vehicles are introducing “green/clean” alternative fuels to their product lines. The manufacturers are going green using recycled materials and cleaner manufacturing procedures, which will also be covered. Students will be using the same technology the dealers are using 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
• diagnosis 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 be diagnosing, repairing and operating the outdoor power equipment listed below. (The equipment may include additional and vehicles that are not listed.) Students are instructed in the proper use of all the equipment to insure their safety and the safety of others. Students 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 power sport 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

COURSE LENGTH:
2 years

PLACEMENT:
Regular

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 D 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.

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.

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

Careers 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, Heliarch/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
- Curtis 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

College and Career Agreements:
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.

Learn how to use sustainable products in all aspects of building trades.
Human and Public Services

Barbering Technician
Cosmetology
Culinary Arts
Culinary Arts Skills
Early Childhood Education
Police Science and Criminal Justice
Barbering Technician

COURSE AVAILABLE:
Grades 11 or 12
COURSE LENGTH:
2 years
PLACEMENT:
Regular
CREDITS:
Up to 4 CTE credits
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 English
This course supports New York State CDOS Credential requirements.

This course is a combination of classroom instruction and laboratory opportunities that will develop academic and professional knowledge, as well as the skills required for job acquisition, retention and advancement, integrating technology and common core academics. 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

Cosmetology

COURSE AVAILABLE:
Grades 11–12
COURSE LENGTH:
2 years
PLACEMENT:
Regular
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 hone and foster their creative skills while being engaged in this student-centered learning environment. 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)

Culinary Arts

Students enrolled in this course will learn the art and science of quality food preparation and service. The Barry Tech 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

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

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:
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)
Culinary Arts Skills

**COURSE AVAILABLE:**
Grades 10, 11 or 12

**COURSE LENGTH:**
1 or 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

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

Culinary Arts students enrolled in this course will learn the art and science of quality food preparation and service. The Barry Tech 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, 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.

**Certifications Available:**
- ACF certified culinary graduate and certified junior culinary
- American Heart Association • CPR • First Aid

**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.

**Certifications Available:**
- ACF certified culinary graduate and certified junior culinary
- American Heart Association • CPR • First Aid

**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
- American Heart Association • CPR • First Aid

Learn about biodegradable and natural products.
Child Care 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* 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 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 Learn How To:
• 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
In this course, students will learn the basics and methodology of Early Childhood Education and Child Development. This course will provide students with a solid foundation in classroom arrangement and management and curriculum development for infants/toddlers/preschoolers and young children. They will study the fundamentals of working with both parents and staff in a school setting. Focus is stressed on the research findings that early years are a critical time for the physical, cognitive and social/emotional development of children.

Students will learn the fundamental aspects 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.

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 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 • Association for Children with Down Syndrome (ACDS) • Harbor Day Care Center • Head Start • Montessori School • Carousel Day School

Learn about biodegradable and natural products.
Police Science and
Criminal Justice

COURSE AVAILABLE:
Grades 11–12

COURSE LENGTH:
2 years

Placement:
Regular

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:

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>Career and Financial Management</td>
</tr>
<tr>
<td>1.0</td>
<td>Math–Specialized</td>
</tr>
<tr>
<td>1.0</td>
<td>English</td>
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<tr>
<td>1.0</td>
<td>Science</td>
</tr>
<tr>
<td>0.5</td>
<td>Participation in Government</td>
</tr>
</tbody>
</table>

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.

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. They will learn through hands-on, real-world activities such
as mock trials, demonstrations, police patrol functions, field trips and lectures
from guest speakers.

Students Will Learn:
• LiDAR speed enforcement
• handcuffing techniques
• fingerprinting skills
• emergency response techniques
• private security systems
• communications skills
• CSI lab techniques
• police tactics
• crime scene investigation technique
• 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 (Duel Enrollment)
• 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

Learn how high-tech security systems are used in the police science industries.
Natural and Agricultural

2019 • 2020

Animal Care
Animal Care Skills
Horse Science and Management
Horse Science and Management Skills
Horticultural Technology
Veterinary Science
Animal Care

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, which creates the need for animal support personnel. This course will prepare students for entry-level employment in a variety of settings.

**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:

- 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.

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Animal Care Skills

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.

**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

**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

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Learn how organic animal foods are sustainable.
**Horse Science and Management**

**COURSE AVAILABLE:**
Grades 11–12

**COURSE LENGTH:**
2 years

**PLACEMENT:**
Regular

**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.*

Note: 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.

**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
- 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

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**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 using any or all of the following:

- 0.5 credit Career and Financial Management

*This course supports New York State CDAOS Credential requirements.*

Note: 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.

**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, grooms, turn out

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*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

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
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

Horticulture Technology

The Horticulture Technology program is designed to introduce students to the art and science of horticulture and landscape design in preparation for a wide range of entry-level positions in the green industry and college studies at Farmingdale State College.

The green industry features career options that include the design, installation and maintenance of public and private gardens, recreational facilities, parks, and residential properties. There are additional career tracks such as growers, retailers, installers, and designers that serve this industry. Students will gain an appreciation for the industry and its areas of development through interaction with partners in the industry. Students will be provided with the basis for an assessment of future career opportunities and an evaluation of their individual needs.

The Horticulture Technology program allows students to acquire knowledge and proficiency with core horticulture and design concepts, experience with various phases of horticulture operations, and familiarity with business procedures and practices.

Students Will Learn:
• In year one, a study of drafting techniques in landscape design will be undertaken to develop proficiency in lettering, landscape drafting, and layout using professional tools and instruments. Instruction, orientation and field experience in the various phases of horticulture will be conducted during the first year. Tools, techniques, underlying concepts and standards of workmanship will be covered.

• In year two, students will explore soils and their geologic formation and properties. Special attention is given to the focused manipulation of soils to achieve optimum plant performance in landscape situations. Investigative, hands-on laboratory exercises will develop an appreciation for soil as a dynamic living system with broad implications for agriculture and general society. Second-year students will also receive instruction in basic, universal computer concepts and terminology such as fundamentals of the Windows operating system and interactive experience at the beginning to intermediate levels with Microsoft Word, Excel and PowerPoint. The Internet will be used to supplement course content.

Career Opportunities:
Graduates will be prepared for entry-level work as:
• garden/landscape designer • garden/landscape technician • garden/landscape consultant • garden/landscape inspector
• garden/landscape installation contractor • garden/landscape maintenance proprietor • garden/landscape construction supervisor • garden/landscape planting supervisor • nursery/garden center grower, sales associate/manager

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:
• Farmingdale State College (SUNY) (Dual Enrollment)

Learn proper use and disposal of medicines and chemicals.
Veterinary Science

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.

The Veterinary Science curriculum is dedicated to building upon the connections between animal health and well-being and environmental and ecosystem health, in accordance with organizations such as the Alliance of Veterinarians for the Environment (AVE) and the Jane Goodall Institute.

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 also be prepared to pursue further studies in veterinary medicine, veterinary technology and biomedical research. Typical job titles in this field include veterinary assistant, veterinary technician, veterinarian and researcher.

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 • 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:
- 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
Animation and Digital Media Design • Animation and Digital Media Skills • Audio Production
Computer Game Design and Programming • Computer Game Design and Programming Skills
Fashion Design Technology and Merchandising • Video Production and Digital Film Making
Animation and Digital Media Design

COURSE AVAILABLE:
Grades 11–12

COURSE LENGTH:
2 years

PLACEMENT:
Regular

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

1.0 credit English

This course is certified by New York State.

Creative students enrolled in the Animation and Digital Media Design course will see their art skills reach new heights as they produce a wide variety of both computer and traditional art and animation pieces. Using state-of-the-art software and equipment, such as the Adobe Creative Cloud Suite, Wacom drawing tablets, 3D Printers, and stop-motion cameras, students will be on the cutting edge of the industry, building a strong foundation in the many rapidly growing careers in the art world. Students will build a professional and diverse portfolio consisting of 2D and 3D art, computer-animated short films, hand-drawn illustrations, advertising and promotional art, and web and eBook designs. Students will gain a vast new skill set of tools and techniques to support their collegiate and professional goals, providing a tremendous head start into the industry.

Students Will Learn
- principles of design
- web and animation design
- interface layout for print and electronic media
- image processing and illustration
- portfolio preparation

Students Will Learn to Use the Following Software:
- Adobe Photoshop
- Adobe Flash
- Blender
- Adobe Illustrator
- Adobe InDesign
- HUE Animation Studio
- MakerBot Desktop
- Stickman Animator

Students Will Learn to Use the Following Equipment:
- Mac Computers
- Wacom Drawing Tablets
- MakerBot 3D Printer
- Epson Large Format Poster Printer
- Hue Animator Camera

Student Work On Projects Such As:
- animation
- stop-motion animation
- solid modeling
- claymation
- 3D printing
- web design
- digital photography
- digital branding
- photo retouching
- advertising design
- package design
- t-shirt design
- poster design
- ebook design
- 2D design
- promotional 3D design
- digital printing
- digital portfolio
- creating multimedia products in partnership with business analysts, technical architects and software programmers
- creating digital images for the purpose of animation
- transferring audio/video files to be edited and manipulated digitally
- creating artwork to be used in video games
- creating animated sequences using computer software

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. Graduation from a 2-year college will expand students’ career opportunities.

Animation and Digital Media 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

*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

Typical job titles in this field include:
- animator
- 3D modeler
- web designer
- digital designer
- ebook designer
- art director
- creative director
- production artist
- book designer
- graphic designer
- illustrator and many more.

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
- SUNY Farmingdale State College (Dual Enrollment)
- SUNY Canton

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 experience at workplace sites such as:
- Mindset Productions
- Nassau BOCES Graphic Arts and Printing Service
- East Meadow School District
- ARIC Signs & Awnings
- Printing Emporium
- Mineola Signs and Awnings

CDOS Credential requirements.

This course supports New York State distributed credits.*

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

Current college agreements include:
- Nassau Community College
- SUNY Farmingdale State College (Dual Enrollment)
- SUNY Canton

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 experience at workplace sites such as:
- Mindset Productions
- Nassau BOCES Graphic Arts and Printing Service
- East Meadow School District
- ARIC Signs & Awnings
- Printing Emporium
- Mineola Signs and Awnings
Audio Production

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 re-enforcement
- 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

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

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

Students Will Learn:
- digital recording techniques
- microphone characteristics and techniques
- live sound re-enforcement
- 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 Game Design and Programming

**COURSE AVAILABLE:**
Grade 11–12

**COURSE LENGTH:**
2 years

**PLACEMENT:**
Regular or 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 the first year of Computer Game Design and Programming, students are immersed into the ever-growing industry of video game development as they learn to design and program their very own high-level, fully functioning video games! Using professional industry-grade software along with state-of-the-art equipment, students will apply and strengthen their math, science, logic skills and more to create a multitude of finished video game projects, covering a wide array of popular genres. While making their video game projects, students are introduced to a variety of creative fields over the duration of the course, and will acquire a very diverse set of technical and creative skills ranging from art and design, programming and logic, teamwork and communication, as well as business and marketing skills. Students will work both individually and in team settings to prepare for realistic work environments in their field. In doing so, they will gain a greater understanding and appreciation for the many jobs and disciplines necessary to create popular games seen on the market. By the end of the course, each student will have experience working with a wide range of professional art, programming, music, and sound software, along with cutting edge 3D printers, drawing tablets, game controllers, and more. In addition to their projects, students will learn how to write proper game design documents, participate in group presentations of their work, engage in self- and peer assessment of their games, utilize event-driven object-oriented programming, create customized sound effects and music tracks, animate characters and environments, program with physics and artificial intelligence, design both 2D and 3D art, and so much more! Most of all, students will come away with a great sense of self-confidence, ready to pursue their creative and professional goals.

**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 • 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

In the second year of Computer Game Design and Programming, returning students will see their creative and technical skills skyrocket as they learn how to program more advanced video games with a bevy of new features and techniques to add to their repertoire. This advanced course will add immensely to students’ existing skills, but also will have them developing across brand new platforms using a variety of new software, with an increased focus on coding, 3D design, and project management. With all of the skills they have learned from year one, students will have a great opportunity to focus on creating larger scale games of their own designs. Students will develop detailed project goals and milestones for creating their dream games, and will be supported with one-on-one guidance to bring their projects to fruition. Students will also learn how to market their games on a larger scale and create a professional and unique portfolio showcasing all of their accumulated work, making their games and projects open for the public to play and experience, including prospective college professionals and employers. By the end of the course, each student will be more than equipped with the skills, knowledge, and experience needed to pursue their professional and creative goals in their field, whether independently or in a team setting within the industry. Students will also take part in themed “game jam” challenges, presentations and peer review, meetings with industry professionals, and so much more!

**Second Year Students Will Learn:**
- coding • portfolio design • presentation

**Certifications:**
In addition to Year 1 Certifications, Year 2 students may earn certifications in:
- Games Factory
Computer Game Design and Programming Skills

**COURSE AVAILABLE:**
Grade 11 or 12

**COURSE LENGTH:**
1 or 2 years

**PLACEMENT:**
Regular or Skills

**CREDITS:**
Up to 4 CTE credits a year

**ADMISSIONS CRITERIA:**
Must be Regents track and passing Regents’ Exams.

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

*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 Design Technology

**COURSE AVAILABLE:**
Grades 11–12

**COURSE LENGTH:**
2 years

**PLACEMENT:**
Regular

**CREDITS:**
Up to 4 CTE credits a year

**ADMISSIONS CRITERIA:**
Reading and math skills on grade level. Good hand/eye coordination and spatial knowledge.

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

- 0.5 credit Career and Financial Management
- 1.0 credit English

This course is certified by New York State

Fashion is an exciting area of study with many career opportunities. The Fashion Design Technology and Merchandising 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.

The first year will introduce students to the workings and vocabulary of the fashion industry. Students will learn about the various styles and design details of garments and how to draw them to create a fashion design sketch. Students will also learn the techniques for garment construction using industrial sewing machines and production techniques used in the fashion industry and studies in textiles. The first year will also develop the knowledge and skills for related careers in the Fashion Industry, including the foundation for fashion merchandising, marketing, and buying. Students acquire this knowledge through real-world experience and collaborative projects.

Learn how digital production is environmentally friendly and makes this industry instantly global.
The second year will expand students’ knowledge of the fashion industry and the influences on the development of styles. Students will study the history of fashion, pattern-making, draping, advanced garment construction techniques and development of a designer portfolio. The second year program offers exciting opportunities for students to enhance their skills through fashion industry internships. The classroom offers hands-on experience through fashion experts, guest lectures and high profile events. These type of experiences are offered for fashion design and business.

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, children’s clothing 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

**Career Opportunities:**
Graduates may work in retail organizations and wholesale showrooms. Many students choose to continue their studies at 2- and 4-year colleges, pursuing degrees in fashion design, merchandising, retail management, and advertising, among others. Typical job titles in the field of fashion design include sample maker, seamstress, showroom assistant, model merchandiser, buyer and fashion designer.

**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:
- Herkimer County Community College
- LIU Post • Five Towns 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:
- Alta Moda
- Madonna Cole Originals
- Runway Couture

**Video Production and Digital Film Making**

**COURSE AVAILABLE:**
Grades 11–12

**COURSE LENGTH:**
2 years

**PLACEMENT:**
Regular

**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
- 1.0 credit Science–Specialized
- 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.*

Through hands-on training, students in this course will learn the ropes of the broadcasting, corporate video, and film industries using state-of-the-art equipment.

**Students Will Learn:**
- pre-production
- studio/location production
- post-production editing

**They Will Develop Their Technical Skills in:**
- Final Cut Pro
- Motion 4
- graphic animation
- cinematography
- audio engineering
- lighting techniques
- directing and screen writing

**Students Will Practice Leadership Roles Through:**
- directing
- performance
- production crew responsibilities
- equipment management

**They Will Work as a Team to Accomplish:**
- 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 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:
- 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
Academic Courses

Health Education
This 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.

Marine Science
This is a full-year elective course that will allow students to study the chemical, geological and physical components of the world’s oceans as well as make a comprehensive study of the living and the non-living marine environment. The proper use, management and conservation of ocean resources will be analyzed. Scientific inquiry and laboratory experiments are an integral part of this course.

The objective for the course is for students to become well-rounded individuals through the knowledge and understanding of the marine science curriculum. Students will be better prepared to face the challenges of the 21st Century by utilizing technology, building upon research and writing skills, designing and performing scientific experiments and applying those acquired skills to daily life.

Students will earn 3 credits for their Career and Technical Education course and 1 credit for Science.

Physical Education (Open to 11/12th Grade Students)
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. Visit the Barry Tech website to download the CDOS eligible courses.

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 NYSSED requirements for a CTE course to offer credit.
• All Barry Tech 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. Visit the Barry Tech website to download the 4+1 Graduation Pathway eligible courses. Those courses that use the required exam will satisfy the 4+1 graduation requirement for the new CTE Pathway.

* Although all Barry Tech 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 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, ay 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.

For more information, call the Counseling Office at 516-622-6814.

*Technical Academic credits are granted at the discretion of the district.
More than 70% of the graduating seniors who attend Barry Tech 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 Barry Tech.

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

- direct instruction in their CTE class
- the college fair and college guidebook
- 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 Barry Tech campus
- 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.

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

The student is required to:

- complete a minimum of 22 credits
- achieve a grade of 75% or better in his/her chosen CTE course of study
- earn passing grades on all 5 of the required Regents exams
- score at or above the state average on the appropriate industry technical assessment
- complete a work-based learning experience 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.
Registration Information

Who Should Apply

Tenth grade students are encouraged to visit Barry Tech anytime during the school year, but early enough to make a decision to apply by February or March. Some classes fill up quickly. It is recommended that students apply early in order to get into their first choice CTE course.

Barry Tech CTE Regular courses are for students who:
- Achieve at grade level or above.
- 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.

Barry Tech 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 will be accepted beginning February 11, 2019
Juniors returning for their second year at Barry Tech need not apply. Their home school counselors will be contacted to confirm enrollment for the continuing year.

How to Apply

Visit your home school counselor. The home school counselor can start the application process for Nassau BOCES RSIP programs at Barry Tech and submit the application online.

The admission process involves a comprehensive review of each student’s school records, including attendance, transcripts, report cards, test scores, comments from school personnel, and health records. (Occasionally, students may be interviewed.)

Home School Counselors Apply online

www.nassauboces.org/districtportal
Do you have a child with unique talents or interests?

Consider a Nassau BOCES Regional High School!

Nassau BOCES offers two programs for students who need additional support to complete high school, and/or an alternative program to do so. If you are a student, or if you know a student, for whom one of these programs may be helpful, contact your district or the principal.

Regional Summer School (RSS):
For over 20 years, this program has run summer school for districts with strong academic results for students in the six-week program. RSS is supported by the local district for eligible students.

Twilight Alternative High School:
As requested by a district, this program offers courses for a high school Regents diploma and/or a High School Equivalency (HSE) diploma during the “twilight” hours usually between 3:00 – 7:00 pm in the local high school. In some cases, students attend for a short time to catch up on credits, other times students attend for multiple years to graduation. This program is supported by the district for eligible students.

Information for both programs:
Kellie Cook McLaurin, Principal, kmclaurin@nasboces.org
516-396-2365

Long Island High School for the Arts (LIHSA)
Students can attend Long Island High School for the Arts (LIHSA) for 1 year or as many as 4 years from 9th–12th grades. Students attend for 2.5 hours in the a.m. or p.m. and receive intensive training in Dance, Theatre, Music, Art and Film.

www.nassauboces.org/lihsa

Chris Rogutsky-Bleecker, Principal, crogutsky@nasboces.org
516-622-5666

Speak to your guidance counselor or visit our websites today!

SPEAK TO YOUR GUIDANCE COUNSELOR OR VISIT OUR WEBSITE TODAY!

www.nassauboces.org/barrytech • www.nassauboces.org/ae • www.nassauboces.org/lihsa
Explore the world...
Hofstra Summer Camps and Nassau BOCES team up to offer a wide range of unique programs for youth in grades 6-11 at BOCES Brookville, Caumsett, and Barry Tech. Our hands-on classes provide real-life and situational training that offer summer fun – and can jumpstart future careers as campers gain experience in a desired career or discipline.
  • Transportation and lunch are included.

So many possibilities...

• Animal Care
• Aviation
• Computer Repair and Technology
• Construction
• Culinary Arts
• Graphic Design
• Marine Biology
• Mechanical and Automotive Institute
• STEM

...all lead to a summer your child will remember!

Learn More...
For more information about our Summer Camp programs, please call 516-463-CAMP or visit hofstra.edu/camp

Hofstra Summer Camp Session 1: July 1-12, 2019
Hofstra Summer Camp Session 2: July 15-26, 2019

EDUCATIONAL OPPORTUNITIES FOR ADULTS

Need help with English? Taking the High School graduation TASC exam?
Free classes at the Adult Learning Center.
Call 516-622-5623 or go to adultalc@nasboces.org for more information.

Want to change careers or improve your life?
Call 516-622-6950 or go to adultreg@nasboces.org for an ADULT CAREER AND TECHNICAL EDUCATION catalog.

Michele Cohen, Principal, mcohen1@nasboces.org
516-622-6870
www.nassauboces.org/ae • www.adultednassau.org

Get to Know Us
www.nassauboces.org
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, race, creed, color, national origin, sexual orientation, religion, military/veteran status, sex (including pregnancy, childbirth, or related medical condition), gender, marital status, disability, predisposing genetic characteristic(s), or domestic violence victim status. Moreover, the Nassau BOCES shall provide equal access to the Boy Scouts and other designated youth groups.

Information and grievance procedures are available by contacting the following Civil Rights Compliance Officers at 71 Clinton Rd., Garden City, NY 11530:
Cynthia Fitzgerald, Executive Director of Human Resources at 516-396-2358, cfitzgerald@nasboces.org or Selma Stoddard, Esq., Assistant Director, Department of Human Resources at 516-396-2360, sstoddard@nasboces.org.

Inquiries concerning the application of regulations prohibiting discrimination may be referred to the above-mentioned Civil Rights Compliance Officers or to the 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.