

Career Majors in Construction

Carpentry

Construction Electricity

Drafting/Computer Aided (CAD)

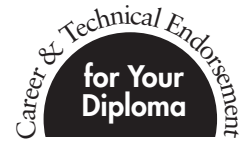
Heating/Ventilation/Air Conditioning

Welding



Carpentry

accredited by Association of General Contractors (AGC)



CARPENTRY develops skills and knowledge of constructing houses and commercial buildings. Students will learn the proper care and safety of tools and equipment and how to work from plans and specifications. Students will frame and complete the exterior of a structure. They will also complete the interior and construct and install cabinets and counters. They will become versed in all areas of alterations.

Work Environment

Carpenters work outdoors as well as indoors and should not be afraid of heights. Safety rules must be followed outdoors and in the shop. Hand tools and power tools are used. Advancement will require additional training and education beyond high school and/or experience.

Career Opportunities

- Cabinetmaker
- Carpenter Foreperson
- Estimator
- Finish Carpenter
- Flooring Installer
- Framer
- General Carpenter
- Roof Installer
- Siding Installer (all types)
- Stage-set Carpenter
- Trimmer (inside)

Advanced Standing Available*

- Delhi College
- New England Institute of Technology
- Pennsylvania College of Technology

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

In agreement with Local 7 Carpenters Union, upon earning a 2 year certificate at Wilson Tech, student will enter union as a 2nd year apprentice earning approximately \$18 an hour.

Employment Outlook

Jobs are available with contractors who are doing new construction or building additions to existing houses, adding garages, carports, and other types of wood frame construction.

There are also jobs available in the area for renovations of small business shops and office buildings.

Starting Salary: \$12–\$19 per hour is the national average for a 35-hour week for carpenters' helpers.

Student Supplies (approx. \$150)

1. Carpenter's overalls or pants
2. Work boots
3. 3 pencils, 3 carpenter pencils
4. Tape measure (25' min., 1" wide)
5. Carpenter's tool belt
6. Safety goggles

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't
- Art

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Center for Construction and Education Research (NCCER) Carpentry Exam.

Course Outline

- Shop and Field Safety Procedures
- Basic Hand Tools: Care and Maintenance
- Power Tools: Care and Maintenance
- Interpretation of Blueprints and Drawings

- Skills in Accurate Workmanship
- House Framing and Foundation Forms
- Roofing
- Sheetrock/Spackle
- Siding
- Stairs
- Railings
- Flooring
- Cabinet Assembly & Installation
- Moldings
- Door Installation
- Suspended Ceilings
- Metal framing
- Interior Finish

Consider these classes at Tech

- Building Grounds/Maintenance*
- Building Trades*
- Construction Electricity
- Design and Production Technology*
- Drafting/Computer Aided (CAD)
- Heating/Ventilation/AC (HVAC)
- Welding

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Construction Electricity

accredited by National Center for Construction and Education Research (NCCER)



CONSTRUCTION ELECTRICITY develops skills and knowledge necessary to pursue a career in the electrical construction industry. Instruction includes commercial and residential wiring methods, with a focus on implementing green technology. Solar and wind energy sources are explored. Students install solar panels for residential use, conduit systems which supply power and lighting for use in commercial settings and communication systems.

Work Environment

The electrician may work indoors or outdoors. The construction electrician requires a working knowledge of the construction field, often working closely with other trades such as carpenters and plumbers. Skills in reading plans and schematics are essential. Work involves residential, business, and industrial applications, as well as installation and repair of various electrical devices, systems, and controls.

Career Opportunities

Building Maintenance
Business Owner–Electrical Contractor
Designer
Electrician
Electrician Helper
Engineer
Estimator

Advanced Standing Available*

Baran Institute
Delhi College
Pennsylvania College of Technology
SUNY Canton

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

The employment outlook continues to be stable due to the growth in single family home renovation and maintenance opportunities in business and industry.

Starting Salaries: Apprentices earn \$15/hr. to start. Union electricians earn salaries based on current contract.

Student Supplies (approx. \$150)

1. Heavy-duty leather, steel-tipped work shoes
2. Hand tools, tool pouch, and hacksaw

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Center for Construction and Education Research (NCCER) Electrical Exam.

Helpful Preparatory Courses

- Drafting
- Industrial Arts
- Ninth and Tenth Grade Math

Course Outline

- Basic Electrical Theory
- Residential Wiring
- Commercial Wiring
- Industrial Wiring
- Installation of Wiring Systems
- Drawings and Schematics
- Control Equipment
- Test Equipment
- Electric Codes
- Motor Installation
- Troubleshooting
- OSHA Standards

Consider these classes at Tech

- Building Grounds/Maintenance*
- Building Trades*
- Carpentry
- Computer Networking & Repair/Technical Electronics
- Drafting/Computer Aided (CAD)
- Electronic Manufacturing*
- Heating/Ventilation/AC (HVAC)
- Video Production
- Welding

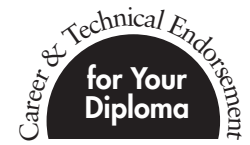
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*Smaller class size.



Drafting/Computer Aided (CAD)

accredited by the American Drafting Design Associates (ADDA)



DRAFTING/CAD prepares students for entry level positions in a drafting firm or department. The course develops the basic skills necessary for both architectural and technical drafting. Students use a variety of drawing tools and instruments to design and prepare working drawings, sections, elevations and details. Instruction in architectural rendering, model making and site planning are also provided. In addition to mastering the CAD skills needed to produce working drawings, the curriculum also includes instruction in 3D wire frame and solid modeling techniques. Students will become proficient at both hand drafting and computer aided drafting using AutoCAD.

Work Environment

Drafters/Computer Aided Design Operators prepare clear and accurate working plans and detailed drawings from rough sketches. Draftspeople are employed by a variety of firms including architectural, engineering, manufacturing, electronic, aeronautical and landscape companies as well as municipalities and government agencies. They work closely with engineers and other professionals in comfortable, well-lit environments. Travel to job sites may be required to provide accurate measurements for drafting, as well as inspections when construction occurs. Work is often performed under deadline pressure.

Career Opportunities

Architect
Business Owner (drafting, home improvement, technical consulting)
CAD Operator
Construction Company Owner
Detailer
Engineer
Estimator
Expeditor
Interior Designer
Landscape Designer
Manufacturers Representative
Project Manager
Salesperson
Senior Draftsperson
Supervisor/Drafting
Specifications Writer

Advanced Standing Available*

Art Institute of Pittsburgh
Delhi College
Island Drafting & Technical Institute

Pennsylvania College of Technology
Farmingdale State University of NY
SUNY Canton

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

Employment opportunities for Drafters/CAD Operators are expected to expand to meet the needs of a growing population. In building our future, alterations and modernization of existing structures will create plentiful job opportunities.

Starting Weekly Salary:

\$400-\$480 in Nassau/Suffolk
\$440-\$520 in NYC

Student Supplies:

There are no student-purchased supplies necessary.

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't
- Art

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: (ADDA) Architectural Exam. Nat'l Occupational Competency Testing Exam (NOCTI) - Architectural Drafting

Course Outline

- Careers in Drafting
- Drafting Equipment & Supplies
- Working Drawings
- Presentation Drawings
- Residential Design
- Site Planning
- Rendering
- Manual Drafting
- Model Making
- Computer Aided Drafting

Consider these classes at Tech

- Building Trades*
- Carpentry
- Computer Networking & Repair/Technical Electronics
- Construction Electricity
- Heating/Ventilation/AC (HVAC)
- Printing*
- Welding

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Heating/Ventilation/Air Conditioning

accredited by the National Center for Construction and Education Research (NCCER)



HVAC develops skills and knowledge of servicing and repairing refrigeration, air-conditioning, heating and ventilation systems for home, business and industry. Students become proficient in all aspects of climate control.

Work Environment

People in this trade work both indoors and outdoors, independently and in groups. Initiative and independence are required to install, maintain and repair environmental control equipment.

Career Opportunities

Assembler of Components
EPA Certification
Factory Representative
Oil burner Repairperson
Parts Salesperson
Refrigeration, A/C and Heating Unit Repairperson
Research and Development
Sheet Metal Worker
Systems Design/Layout

Advanced Standing Available*

Baran Institute of Technology
New England Institute of Technology
Pennsylvania College of Technology
SUNY Canton

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

The employment outlook is exceptionally good because the field of climate control is ever-expanding. New technological developments create additional job opportunities.

Starting Salary: \$12/hour with opportunities for overtime. Experienced technicians/repair personnel/troubleshooters may earn more than \$800/week.

Student Supplies (approx. \$100)

1. Long or short-sleeved coverall or work shirt and pants
2. Heavy, sturdy leather safety shoes
3. 6' tape measure

Academic credits integrated:

- Technical Math
- Technical Science
- English 12

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Center for Construction and Education Research (NCCER) - HVAC Exam.

Course Outline

- Basic Electrical Theory
- Heating and Ventilation
- Refrigeration and Air-Conditioning
- Sheet Metal
- Automotive Air-Conditioning
- Troubleshooting/Diagnosis
- System and Unit Repair
- Clean Air Requirements
- Plumbing

Consider these classes at Tech

- Building Grounds/Maintenance*
- Building Trades*
- Carpentry
- Construction Electricity
- Drafting/Computer Aided (CAD)
- Welding

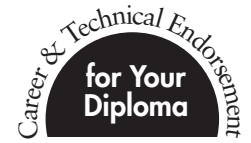
All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Welding

accredited by the American Welding Society (AWS)



WELDING develops skills and knowledge in the fusing of different types of metals. Students will work from blueprints to layout, develop, fabricate, and form metals utilizing the Oxyacetylene Flame Cutting, Gas Welding, Electric Arc Welding, Aircomatic (MIG), Heliarc (TIG), and Plasma Arc Welding Processes.

Work Environment

The welder may work indoors or outdoors depending on the type of job being performed. Extreme heat is used in the welding process and protective goggles, masks, gloves, shoes and coveralls must be worn. Very strict safety rules must be followed.

Career Opportunities

Arc Welder
Business Owner
Certified Welder
Flame Cutter
Gas Welder
Heliarc Welder
Welding Engineer
Welding Inspector
Welder (Combo) Mechanic
Welding Supervisor

Advanced Standing Available*

Baran Institute of Technology
Delhi College
Pennsylvania College of Technology

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

The New York area outlook is very good for both men and women, with a few hundred new welders needed every year. Technology and new metal fabrication techniques will keep this demand on a steady increase.

Starting Salaries: from \$12–\$18/hour (according to ability) for a 40-hour week. Specialists earn \$30–\$62/hour

Student Supplies (approx. \$75)

1. Work clothes: either a long-sleeved or short-sleeved coverall
2. Safety work shoes

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Art

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Occupational Competency Testing Exam (NOCTI) - Welding Exam.

Course Outline

- Shop and Field Safety Procedures
- Basic Electricity/Fundamentals of Blueprint Reading
- Thermodynamics/Layout and Development
- Properties, Identification, and Use of Metals
- Welding Processes and Techniques including Production and Maintenance Welding
- Inspection and Testing of Weldments
- Basic Metallurgy
- Special Welding Techniques
- Preparation for Welder's Certification Exam in 3G, 4G and 6G Pipe

Consider these classes at Tech

- Aircraft Maintenance
- Auto Body Repair
- Auto Maintenance*
- Auto Technology
- Building Trades*
- Carpentry
- Construction Electricity
- Design and Production Technology*
- Drafting/Computer Aided (CAD)
- Heating/Ventilation/AC (HVAC)

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.

Career Majors in Graphics & Media

Advertising Art

Audio Production

Photography

Video Production



Advertising Art



ADVERTISING ART is for students that are interested in the field of graphic design and advertising art. Students explore concepts in print and computer media, such as illustration (traditional and digital), lettering, layout design, logo images, advertising animation and portfolio development and setup. Students develop strong graphic design skills and gain artistic confidence to pursue college or entry-level jobs in advertising. This course is excellent for students who are interested in artistic/visual design and want a creative experience working with computer design software and graphic design tools.

Work Environment

Most advertising artists work as staff or freelance artists for advertising departments of large companies, printing and publishing firms, textile companies, photographic studios, media studios, and a variety of other businesses.

Job duties include creating graphic concepts for print, multi-media design and web media. Other aspects of the job may include: developing advertising campaigns; designing logos, lettering designs, brochures, ads, stationery packages, commercial and industrial displays, and cartooning as well as preparing for art reproduction.

Career Opportunities

Advertising Artist Art Teacher
Graphic Designer Fine Artist
Multimedia Artist

Advanced Standing Available*

Art Institute of Pittsburgh
Boston University
Briarcliffe College
Dowling College
Nassau Community College
SBI Campus
Pennsylvania College of Technology

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

One anticipated area of growth is in visual advertising such as computer graphics, television graphics, packaging displays, and multimedia. The expanding field of design and presentation requires qualified artists to

create two and three dimensional artwork with creative design concepts

According to Newsday, the average annual salary is \$33,000 to \$100,000 for experienced artists.

Student Supplies (approx. \$25)

1. #2 Pencils
2. Several erasers
3. One steel 12" or 14" graphic art ruler (pica and inches)
4. One plastic 10" (30-60 degrees) triangle

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't
- Art

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Occupational Competency Testing Exam (NOCTI) - Advertising and Design Exam.

Course Outline

- Art Foundations
 - Lettering
 - Illustration
 - Perspective
 - Color Theory
 - Drawing
 - 2-D Design

- Job Interviewing
- Portfolio Development
- Graphic Design
- Layout
- Typography
- Photography for advertising
- Art Preparation
- Electronic Design
- Flash
- Macintosh OS

Consider these classes at Tech

- Audio Production
- Cosmetology
- Cosmetology*
- Design and Production Technology*
- Drafting/ Computer Aided (CAD)
- Fashion Merchandising/Design
- Floriculture
- Photography
- Printing*
- Video Production
- Web & Internet Technology

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Audio Production

Accredited by InfoComm International



AUDIO PRODUCTION will give students the opportunity to learn about basic audio production techniques. Students will learn to set up, operate and maintain a variety of electrical and electronic equipment that are used in this industry. Students will practice their skills on audio mixing consoles, microphones, and digital multi-track recorders. Projects will include writing, producing, engineering and mixing projects in the fields of radio, television, broadcasts, concerts, plays, live musical recordings films and commercial applications. Students will also explore music history and the development of diverse musical styles.

Work Environment

Audio Technicians generally work indoors in pleasant surroundings. However, projects outside the studio would subject audio technicians to all types of weather conditions. Audio technicians may be required to set up heavy equipment. Technicians may be under pressure to meet broadcasting deadlines and may need to work evening, weekend and holiday hours.

Career Opportunities

- Audio and Video Equipment Technicians
- Broadcast Technicians
- Broadcast Field Supervisors
- Chief Engineers
- Field Technicians
- Radio Operators
- Sound Engineering Technicians
- Sound Mixers
- Recording Engineers
- Re-Recording Mixers
- Transmission Engineers

Advanced Standing Available

Art Institute of Pittsburgh
Boston University
Five Towns College
New England Institute of Technology

Employment Outlook

Overall employment in the audio technology industry is expected to grow at an average rate. Individuals seeking entry-level employment in this field may face competition in major metropolitan areas. Prospects

for entry-level employment in smaller cities and towns are expected to be better, especially with appropriate training.

Starting Salary: Television stations generally tend to pay higher than radio stations; commercial broadcasting usually pays higher than public broadcasting and stations in large markets tend to pay more than those in smaller markets. Audio Technician salaries in the motion picture and video industries may start at \$24,000.

Student Supplies

Flash drives recommended.

Academic credits integrated:

- Technical Math
- Technical Science
- Art
- English 12

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: Nat'l Occupational Competency Testing Exam (NOCTI) - Audio Visual Communications.

Helpful Preparatory Courses

- Algebra
- Science (Physical Science)
- Computer Applications

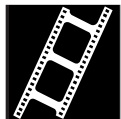
Course Outline

- Music Arrangement
- Live sound re-enforcement
- Multi-track audio recording
- Electronic instrumentation, operation and composition
- Audio-mixing consoles
- Microphone Techniques
- Digital recorders
- Multi-tracking and editing systems
- Music History

Consider these classes at Tech

- Advertising Art
- Computer Networking & Repair/Technical Electronics
- Photography
- Video Production
- Web and Internet Technology

All placements are based upon individual needs and approval from the district and parent/guardian.



Photography



PHOTOGRAPHY develops skills and knowledge of commercial photography. Students master studio and darkroom skills as well as learn the business aspects of photography.

Work Environment

The professional photographer may work in a studio, a darkroom with chemicals, or outdoors on location. Photography is the cornerstone of graphic arts, television, video and arts of the stage. Well-paid opportunities in these fields are always open to trained persons.

Fashion, sports, science, education, research, publishing, government and the armed services look more and more to photography to report, dramatize, illustrate, clarify, explain, and sell. Vast and lucrative opportunities also exist for the portrait and wedding photographer in every town.

Career Opportunities

Biomedical/Medical Photographer
Fashion Photographer
Forensic Photographer
Free Lance Photographer
Industrial Photographer
News Photographer
Photographic Salesperson
Photojournalist
Photo Lab Technician
Special Events Portrait/
Wedding Photographer

Advanced Standing Available*

Art Institute of Pittsburgh
Boston University
Dowling College

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

Job opportunities in newspapers and magazines should continue to be good for persons with college training in photography. Business and

industry also will offer good opportunities for photographers as greater importance is placed on visual aids for use in meetings, stockholder's reports, and sales campaigns.

Photography is becoming an increasingly important part of scientific and medical research, and opportunities are expected to be good for those with this highly specialized background. Competition for jobs as portrait and commercial photographers, however, is expected to be keen since photographers can go into business for themselves with a modest financial investment or work part-time while holding another job.

Starting Weekly Salary: Minimum wage to \$300.

Student Supplies (approx. \$60)

1. Lab coat (optional)
2. Students may use their own 35mm SLR camera
3. Protective gloves (optional)

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Art

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: Media West - Photo Seminars.

Course Outline

- Camera Theory and Applications
- Adobe Photoshop CS
- Digital Cameras
- Small/Medium Format SLR Cameras
- TLR Cameras
- Lighting Techniques
- Film Processing
- Composition
- Customer Relations
- Business Techniques
- Portraiture
- Color Slide Production
- Publicity, Industrial Products, and Fashion work
- Black and White Photographic Printing
- Color Skills
- Computer Skills
- Advanced Printing Techniques

Consider these classes at Tech

- Advertising Art
- Audio Production
- Cosmetology
- Cosmetology*
- Drafting/ Computer Aided (CAD)
- Floriculture
- Printing*
- Video Production

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Video Production

accredited by the InfoComm International)



VIDEO PRODUCTION develops the skills necessary to enter the field of television and radio broadcasting. Through course work and hands-on experience, students learn business and creative aspects of production, programming, engineering (monitoring of transmission equipment), basic audio production techniques and sales. Good communication skills, proper use of English and computer skills are stressed.

Work Environment

Technicians may work in large city TV stations where jobs are specialized. In local stations, employees may handle several jobs simultaneously, working with the producer, director, announcer, art director, set director, makeup artist, graphic artist, wardrobe designer, music librarian, camera operator, film and tape editor, lighting director, floor director, sound-effects technician, researcher, property handler, and secretary. Technicians also work closely with news directors, reporters, writers, researchers, on-air personalities, producers, and assignment editors as well as electricians, artists, carpenters and photographers.

Career Opportunities

Assistant Cameraperson
Audio Technician
Camera Operator
Casting Assistant
Desk Assistant
Event Videographer
Film Editor/Video Tape Editor
Gaffer/Grip
Non Linear Editor
Lighting Assistant
Master Control Operator
Multi-media Assistant/Technician
News Videographer
Production Assistant
Prop Person
Radio DJ
Researcher
Soundperson
Video Engineering Assistant

Advanced Standing Available*

Art Institute of Pittsburgh
Boston University
Five Towns College
New England Institute of Technology
Pennsylvania College of Technology

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

With the increase of local TV and radio stations, opportunities in this field are ever-growing.

Starting Weekly Salaries: The mean weekly salary is approximately \$975 for film and video editors.

Student Supplies

There are no student purchased supplies required for this program.

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Art

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: InfoComm - International Communications Industry Association (ICIA).

Course Outline

- Fundamentals of Television/Radio Production
- Multitrack Music Production
- TV Equipment Use & Maintenance
- Non Linear Editing
- Audio Engineering
- Script Writing
- Set Design
- Set Building/Dressing
- Lighting
- Film Documentary Development
- Radio Spot Production
- Podcasting
- Youth Leadership Activities
- Career Opportunities
- Sound Reinforcement

Consider these classes at Tech

- Advertising Art
- Audio Production
- Carpentry
- Computer Networking & Repair/Technical Electronics
- Construction Electricity
- Cosmetology
- Cosmetology*
- Fashion Merchandising/Design
- Photography
- Printing*
- Web & Internet Technology

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.

Career Majors in Health

Medical Assisting

Medical Laboratory

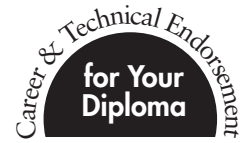
Nurse Assisting

Professional Health Careers



Medical Assisting

approved by American Association of Medical Assistance (AAMA)



MEDICAL ASSISTING is a fast paced rewarding career where your knowledge and skills will be in demand in many health care facilities. A medical assistant is a multi-skilled professional who works with patients and medical staff for the ultimate goal of quality patient care. A versatile member of any health care team, the medical assistant works with the physician in both administrative and clinical procedures in the medical office. You will learn how to assist the physician with patient examinations and diagnostic procedures, perform EKGs and laboratory procedures. You will also study anatomy and physiology, hematology, pharmacology and the administrative duties involved in running a medical office. Students spend the first year studying administrative skills. In the second year, the students develop advanced skills of a clinical medical assistant. A clinical internship in the second year of the program will be scheduled in local medical facilities. At the completion of the program you will be eligible to apply for national certification as a Medical Assistant if all academic and attendance requirements are successfully completed.

Work Environment

The medical assistant is prepared for entry-level employment in a variety of occupations in the health care industry. Various job titles are: Medical Assistant, Medical Secretary, Medical Receptionist, Billing Clerk, Insurance Claims Processor, Medical Transcriber, and Medical Collections.

Career Opportunities

Laboratories HMO's
Medical Clerks Medical Offices
Clinics Hospitals
Industry Urgent Care Centers

Advanced Standing Available*

Pennsylvania College of Technology
SBI Campus
SUNY Canton

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

A new trend in health occupations is that of a multi-skilled worker. Medical Assistants fill this need. The high cost of care demands workers who are competent in many areas.

Starting Salaries: \$28,000/year, depending on experience and conditions, with a 40 hour work week. Part-time work is available and hours may include evenings and weekends.

Student Supplies

1. Blue zipper front tunic top, white pants
2. Scrubs, top and pants
3. Nursing shoes
4. Name pin
5. Physical examination
6. Watch with second hand (not digital)

Helpful Preparatory Courses

- Biology

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't
- Health

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Center for Competency Testing (NCCT) ECG Technician exam and complete the clinical internship.

Course Outline

- Communications
- Medical Law and Ethics
- Anatomy & Physiology
- Phlebotomy/Venipuncture
- First Aid
- Laboratory Procedures
- Pharmacology
- Clinical Practices
- Sterilization Techniques
- Infection Control
- Medical Terminology
- Electrocardiography
- Medical Specialties
- Computer Introduction
- Medical Administrative Duties
- Accounts Management
- Office Management
- Billing Procedures
- Vital Signs
- Clinical Internship

Consider these classes at Tech

- Certified Personal Trainer
- Early Childhood Education & Care
- Medical Laboratory
- Nurse Assisting/Prof. Health Careers

All placements are based upon individual needs and approval from the district and parent/guardian.



Medical Laboratory

approved by NYS Education Department



MEDICAL LABORATORY includes instruction in the skills necessary for entry level employment as a health care professional. Students learn medical terminology, measuring vital signs, electrocardiography (EKG), laboratory lessons in hematology, blood banking, chemistry, urinalysis, microbiology and phlebotomy. Second year students who meet all standards have an opportunity to participate in a hospital internship.

Work Environment

Laboratory tests play an important part in the detection, diagnosis, and treatment of many diseases. Medical laboratory workers, often called clinical laboratory workers, assist in the performance of tests under the direction of pathologists, medical technologists, and/or medical technicians. These tests are generally performed with a scientific team in modern surroundings on samples of blood, tissues, and body fluids to detect changes caused by various disease states. Laboratories are generally well lighted, clean, and present a pleasant atmosphere. Students will work with patients and, many times, follow their progress.

Career Opportunities

Doctors' Offices	EKG Technicians
Health Clinics	HMO's
Hospitals	Industry
Laboratory Assist.	Medical Clerks
Phlebotomists	Private Lab

Advanced Standing Available*

Farmingdale State University of NY
Pennsylvania College of Technology
SBI Campus
SUNY Canton

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

According to government statistics, the demand for medical laboratory workers continues to be excellent because physicians are making wider use of laboratory tests in routine physical checkups and in the diagnosis and treatment of disease. Indirectly influencing growth in the field are the following: greater health con-

sciousness, population growth, and expansion of prepayment programs for medical care to make it easier for people to pay for services.

Starting Salaries: \$34,000/year, depending on experience and conditions, with a 40-hour work week. Jobs may include evening or night hours and/or weekend duty. Part-time work is generally available.

Student Supplies

1. Calculator
2. Lab Coat
3. Scrubs, top and pants
4. Navy blue zipper front tunic top, white pants
5. Nursing shoes
6. Name pin
7. Physical examination
8. Watch with second hand (not digital)

Helpful Preparatory Courses

- Biology
- Chemistry

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't
- Health

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: (NCCT) National Center for Competency Testing Exam (NCCT) - Phlebotomy Technician and complete the clinical internship.

Course Outline

- Orientation to the Medical Lab
- Basic Anatomy and Physiology
- Use/Care of Lab Equip.
- Intro. to Genetics
- Application of DNA based tests in health
- Basic First Aid
- Blood Pressures/TPR
- Intro. to Computers
- Electrocardiography
- Infection Control
- Microbiology
- Urinalysis, Serology
- Blood Banking, Hematology
- Blood Chemistry
- Blood Drawing
- Universal Precautions
- Study Skills
- Telephone Comm.
- Intro. to Pharmacology
- Letter writing, filing, typing
- Applied language and math skills
- Office Experience
- Clinical Internship

Consider these classes at Tech

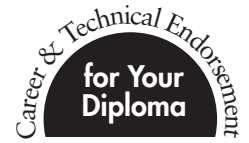
- Medical Assisting
- Nurse Assisting/Prof. Health Careers
- Veterinary Assisting

All placements are based upon individual needs and approval from the district and parent/guardian.



Nurse Assisting

approved by NYS Health Department



NURSE ASSISTING develops the skills, attitudes, and knowledge necessary to care for the sick in health care institutions and private homes. Practical application of theory is stressed. Skills developed in this program may be used as a direct entry to employment or as a preparatory course for Professional Health Careers or Adult Health Career Programs.

Work Environment

Nurse Assistants engage in bedside nursing care under the direction of a registered nurse. Job duties include assisting the Practical or Registered Nurse, in tending to the care of patients, including bathing, dressing, feeding, transporting, bed making and personal needs. The Nurse Assistant may work in a hospital, a nursing home, or provide care for patients in their home. The Nurse Assistant has the opportunity to work any shift including weekends.

Career Opportunities

Certified Nurse Assistant
Geriatric Aide
Home Health Aide
Psychiatric Attendent
Rehabilitation Aide

Advanced Standing Available*

Dowling College
Pennsylvania College of Technology
SBI Campus
SUNY Canton

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

With increased demands for care, the Nurse Assistant shall remain in great demand, both locally and nationwide. Employment may be found in: hospitals, hospices, long-term care facilities, day care and private duty.

Starting Salary: \$30,000/year depending on type of facility. Job may include evening or night hours and weekend duty.

Student Supplies

1. Scrubs and uniform
2. Nursing shoes
3. Name pin
4. Physical examination

Licensing Requirements

All students successfully completing this program will be eligible for the NYS DOH Nurse Aide Certification Examination provided they meet the clinical and classroom attendance requirements. An original social security card is required for the state exam.

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't
- Health

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: NYS DOH Nurse Aide Certification Exam and successfully complete Professional Health Careers in their

senior year.

Course Outline

- Introduction to Health Careers
- Interpersonal Relationships
- Anatomy and Physiology
- Nutrition
- Long-term Care
- Medical Terminology
- Supervised Off-site Clinical Experience (108 hrs)
- Legal and Ethical Responsibility
- First Aid

Consider these classes at Tech

- Certified Personal Trainer
- Health Aide*
- Medical Assisting
- Medical Laboratory
- Prof. Health Careers (seniors only, must have successfully passed Nurse Assisting)
- Veterinary Assisting

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.

Scheduling Information

Grades: 11 or 12
Length: One year
Units: 4 ½
Location: Northport & Republic Airport
Sessions: AM/PM



Professional Health Careers

approved by NYS Education Department



PROFESSIONAL HEALTH CAREERS offers seniors the opportunity to begin training for the following career choices: Practical Nursing, Surgical Technology, Medical Assisting or Patient Care Technician. Additionally, students receive an excellent foundation in preparation for the study of the health career of their choice in college. The program provides both classroom and clinical instruction. Students who meet specific criteria described below may apply for advanced standing in the Wilson Tech Adult Practical Nursing program, Adult Medical Assisting program or Adult Surgical Technology program.

Prerequisite

Students must complete Nurse Assisting in junior year.

Work Environment

Health professionals work in a variety of health care facilities. Depending on the position, they can work any shift, including weekends and holidays.

Career Opportunities

Hospitals, Physician's Offices, Rehabilitation Centers, Clinics, Long Term Care Facilities

Advanced Standing Available*

1. Students will be eligible to receive advanced standing with a minimum grade of 80%, in Therapeutic Communications and Study Skills for the Practical Nursing and Surgical Technology adult programs at Wilson Tech.
2. Matriculation occurs within 6 months.
3. Passing grade in pre-entrance exam for Practical Nursing and Surgical Technology.

Dowling College

Pennsylvania College of Technology

SBI Campus

SUNY Canton

Wilson Tech Adult LPN, Surgical Tech, Sonography

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

With increased demands for care of the sick and disabled, Certified Nurse Assistants, Patient Care Technicians, LPNs, Surgical Technologists, Medical Assistants and RNs will remain

in great demand both locally and nationwide.

Starting Salary: Approximate yearly salary ranges are as follows:
Practical Nursing: \$41,000,
Medical Assistant: \$29,000,
Nurse Assistant: \$30,000
Surgical Technician: \$49,000

Student Supplies

1. White uniform, top and pants
2. Nursing shoes
3. Name pin
4. Physical examination
5. Watch with second hand (not digital)

Certification Requirements

Those who complete the entire program may complete sequence requirements. Students who are Certified Nurse Assistants will qualify to take the NCCT Certification exam for Patient Care Technician.

Helpful Preparatory Courses

- Biology
- Chemistry

Academic credits integrated:

- Technical Math
- English 12
- Technical Science
- Health
- Economics/Participation in Gov't

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: NYS Nurse Aide Competency exam, Nurse Assisting Certification Exam (CNA).

Course Requirements

Students must have a complete physical in order to participate in the clinical component and a two year Infant, Child & Adult CPR certification.

Course Outline

- Fundamentals of Health Care
- Personal/Vocational Relationships
- Study Skills
- Therapeutic Communication
- Anatomy & Physiology
- Basic Computer Technology
- Human Body—Health & Disease
- Mental Health
- Clinical Practice—Offsite (*students must meet criteria prior to clinical placement*)

Consider this class at Tech

- Nurse Assisting (prerequisite)

Scheduling Information

Grade: 12
 Length: 1 year
 Units: 4 ½
 Location: Dix Hills
 Sessions: AM/PM

Career Majors in Service Occupations

Administrative Assistant/Office Technology

Certified Personal Trainer

Cosmetology

Culinary Arts

Early Childhood Education & Care

Equine Studies

Fashion Merchandising/Design

Floriculture

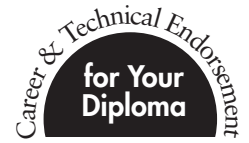
Police Science and Law

Veterinary Assisting



Administrative Assistant/Office Tech.

accredited by Microsoft Office Specialist (MOS)



The ADMINISTRATIVE ASSISTANT/ OFFICE TECHNOLOGY program develops the student's basic understanding of business knowledge and skills to a comprehensive knowledge of word processing and financial information. Students will begin their development with an overview of business organizations and managerial processes and systems. Hands-on opportunities will be available to explore computer productivity tools and the Internet. With increased mastery, students will be able to create databases and format worksheets. Using PowerPoint, students will be able to create their own slide presentations.

Work Environment

Today, most large and small companies require their employees to have skills in using personal computers. Knowledge of computer applications can be applied to all fields of the job market including finance, law, journalism, communications, research and civil service. Career opportunities exist within the areas of word processing, data entry and financial information processing.

Workspaces in the field of Administrative Assistant/ Office Technology are usually located in well-lighted, comfortable areas. Workers will be expected to participate in group projects as well as work individually. Students in the Administrative Assistant/ Office Technology program are expected to be mature, self-motivated, conscientious, well organized and able to work accurately.

Individuals within the area of Administrative Assistant/ Office Technology generally work a standard 37-40 hours week. Full-time employees can expect to receive health insurance and other such benefits as paid vacation and holidays.

Career Opportunities

Administrative Assistant
Data Entry Operator
Database Specialist
Presentation Developer
Word Processing Specialist
Web Page Designer

Advanced Standing Available*

Berkeley College
Briarcliffe College
Dowling College
Five Towns College
New England Institute of Technology
Pennsylvania College of Technology
SUNY Canton

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

As most large and small firms are now computerized, growing opportunities are available on both a local and national level.

Starting Weekly Salary: \$400 per week, \$20,000-\$22,000 yearly.

Student Supplies

There are no student-purchased supplies necessary.

Academic credits integrated:

- Technical Science
- Technical Math
- English 12
- Economics/ Participation in Gov't

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: Microsoft Specialist Exam (MOS)- Specialist Certification (Word, Excel, Access, PowerPoint, Outlook)

Helpful Preparatory Courses

- Keyboarding

Course Outline

- Business Analysis
- Business Computer Applications
- Data Entry
- Internet Applications
- Microsoft Windows and Microsoft Office Access
- Excel
- PowerPoint
- Word
- Web Page Design

Consider these classes at Tech

- Web & Internet Technology
- Medical Assisting
- Office Skills*
- Retailing*

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Certified Personal Trainer

Accredited by the American Council on Exercise (ACE)



CERTIFIED PERSONAL TRAINER includes topics in anatomy, physiology, kinesiology, injury prevention, supplementation and nutrition, and all aspects of weight and strength training. During the second year, students will learn more advanced training techniques and expand their knowledge in designing a creative workout program for a variety of clientele. Students will complete an internship at an approved Fitness Facility where they will have the opportunity to apply their education in a career setting. At the conclusion of this course, students will be prepared to take the American Council on Exercise (ACE) Certification Exam for field certification.

Work Environment

Personal Trainers typically work in a variety of settings including gyms, health clubs, hospitals, universities, schools, yoga and Pilates studios, wellness centers, sports performance centers, resorts and clients' homes. Personal Trainers work with clients on a one-to-one basis or in small groups. The environment in which a Personal Trainer works tends to be indoors. Many jobs are part time and fitness workers often supplement their income by working at several different facilities or clients' homes. Night and weekend hours are common.

Career Opportunities

Business Owner
Certified Personal Trainer
Fitness Director
Fitness Worker
Group Exercise Instructor
Supervisor

Employment Outlook

Opportunities in the field of fitness are expected to be good and employment is expected to be better than average. More businesses and individuals are recognizing the value of health and fitness programs. Clients are looking for knowledgeable trainers to motivate, educate and design safe and effective training programs

to meet their health/fitness goals.

Starting Salary: Entry-level salaries for Personal Trainers can begin at \$20.00 per hour and up. Experienced Personal Trainers can make over \$100.00 per hour.

Student Supplies

1. Gym Bag
2. Gym Shorts
3. Polyester T-Shirt
4. Sneakers

Academic credits integrated:

- Technical Science
- Physical Education
- Health
- English 12

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: American Council on Exercise (ACE) - Personal Trainer.

Helpful Preparatory Courses

- Biology
- Health
- Physical Education

Course Outline

- Aerobic/ Anaerobic Training
- Anatomy
- CPR/AED
- Health and Fitness
- Health Screening and Evaluation
- Nutrition/ Weight Management
- Exercise Physiology
- Program Design
- Proper Training Techniques
- Safety
- Special Populations
- Starting and Running a Personal Training Business
- Supplements

Consider these classes at Tech

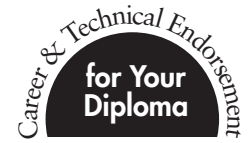
- Early Childhood Education & Care
- Medical Assisting
- Nurse Assisting/Prof. Health Careers
- Police Science & Law

All placements are based upon individual needs and approval from the district and parent/guardian.



Cosmetology

accredited by NYS Department of State



COSMETOLOGY develops skills and knowledge of hair styling, coloring, chemical hair restructuring as well as make-up, nail and skin care. Practical application of theory is stressed. Students first work on mannequins and then on each other. Second year students work in our clinic, which is open to the public two days a week.

Work Environment

The ability to deal one-on-one with clients, the acquisition of commencement level math, reading, writing, and communications skills, attention to personal appearance and hygiene, and the development of responsible attributes are essential for cosmetologists. All states require beauty salon operators to be licensed. Before applicants are eligible to take the New York State licensing examination, they must successfully complete a NYS approved 1000-hour cosmetology course. This course is an approved 1000-hour program.

Career Opportunities

Artificial Hair Technician
Hair Color/Cutting Technician
Hair Technician Assistant
Hair Stylist/Educator
Marketing/ Merchandising
Nail Technician
Receptionist
Salon Owner/Manager
Skin Care Specialist
Waxing Technician

Advanced Standing Available*

SUNY Canton

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

Employment of cosmetologists will grow rapidly through the future. Rising incomes and the growing number of women working outside the home are among the factors that will spur demand for cosmetologists services. Thousands of workers will be needed each year to replace those who leave the occupation.

Starting Salaries: Pay scales vary, depending on the operator's experience and ability to attract customers

or develop a specialized skill. The commission rate varies from 10 to 50% after doubling a day's salary is earned. In Nassau/Suffolk, licensed starting cosmetologists earn \$20,000 per year plus commissions and tips.

Student Supplies (approx. \$200)

1. Uniforms:
 - Female Students:** Black cotton/polyester blend uniform pants. Smock Top. White professional-style leather low heel, closed toe shoes with appropriate hose.
 - Male Students:** Professional-style jacket, button or zipper front. Black cotton/polyester blend uniform pants. White professional-style leather shoes with appropriate socks.
2. Cosmetology Tool Kit containing all necessary tools, equipment, and a mannequin holder

Licensing Requirements

All students successfully completing this program, (two year, 1000 hours), will be eligible to sit for the New York State Licensing Examination in Cosmetology. Students may take cosmetology for one year, but are ineligible to sit for the NYS licensing exam. Seniors may elect to further their education/hours with an adult Wilson Tech cosmetology class the following year.

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial

Management (CFM), and pass the following national certification exam: National Occupational Competency Testing Exam (NOCTI) - Cosmetology.

Course Outline

- Professionalism
- Bacteriology
- Safety/ Decontamination
- Scalp & Hair care
- Haircutting
- Wet Hair Styling
- Thermal Hair Styling
- Permanent Waving
- Hair coloring
- Chemical relaxing
- Artificial Hair
- Manicure/Pedicure
- Skin care/Make-up
- Skin disorders
- Superfluous hair removal
- Cells, Anatomy & Physiology
- Light Therapy
- Salon Business
- Computer Imaging
- Salesmanship

Consider these classes at Tech

- Advertising Art
- Audio Production
- Cosmetology*
- Fashion Merchandising/ Design
- Floriculture
- Photography
- Video Production

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Culinary Arts

accredited by the American Culinary Federation (NRA ProStart)



CULINARY ARTS develops cooking skills through actual work experience using standardized recipes. Students are expected to learn all basic and advanced techniques of food preparation, along with the related safety, nutrition and sanitation requirements of New York State for restaurants, cafeterias and hospitals.

Work Environment

Cooks/Chefs must be able to stand for long hours. Peaks of high production are demanded both daily and seasonally, depending on job location.

Career Opportunities

Baker's Apprentice
Nutritionist
Chef
Cook
Food Stylist
Counterperson
Dishwasher
Host/Hostess
Fry Cook
Line Cook
Pantry Cook
Prep Cook
Restaurant Owner/Manager
Saute Cook
Short Order Cook
Sous Chef
Garde Manger Cook
Waiter/Waitress

Advanced Standing Available*

Connecticut Culinary Institute
Johnson & Wales University
Nassau Community College
Pennsylvania College of Technology
ProStart Program*
Suffolk County Community College
SUNY Cobleskill

*National Restaurant Association Educational foundation ProStart Program participating schools: The Art Institute of Las Vegas, The Art Institute of Tampa, Bethune-Cookman College, Michigan State University, Cornell University, University of Nevada-Las Vegas, The Culinary Institute of America, Johnson & Wales University, Kendall College, New England Culinary Institute, Okla-

homa State University, Orlando Culinary Academy, Scottsdale Culinary Institute, Washington State University

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

Through the year 2000 and on, approximately 76,000 cooks will be needed in the metropolitan area. Future local and national employment projection is excellent, particularly in areas of public interest and industrial development. Weekend and holiday work is required. Advanced position requires a five or six day work week.

Starting Weekly Salary: Fry Cook, \$300-\$350; Saute Cook, \$400-\$450; Baker's Helper, \$200-\$250; Cook's Helper, \$200-\$250.

Student Supplies (approx. \$50)

1. White chef coat
2. Bib type apron
3. Checkered pants
4. Protective work shoes
5. Chef Hat
6. Waiter/Waitress uniform

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Occupational Competency Testing Exam (NOCTI) –ACF certification.

Course Outline

- Kitchen Safety and Sanitation
- Stocks, Soups, Sauces
- Cooking Methodology
- Baking & Pastry Arts
- Meat & Poultry ID
- Fish & Shellfish ID
- Dining Room Service
- Pasta, Grains and Starch Cooking
- Salad, Appetizer and Hors d'oeuvres Preparation
- Food Plate Presentation & Styling
- Breakfast Cooking
- Garde Manager

Consider these classes at Tech

- Early Childhood Education & Care
- Food Services*
- Health Aide*
- Nurse Assisting/Prof. Health Careers

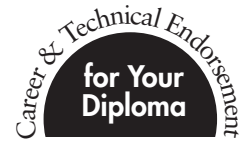
All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Early Childhood Education & Care

accredited by the National Accreditation of Child Care Professionals



EARLY CHILDHOOD EDUCATION AND CARE prepares students for entry-level employment in early childhood programs. The course combines classwork and discussion on the development and behavior of young children with actual job experience in the BOCES Learning Laboratory Pre-school and at cooperating field sites.

Work Environment

Upon completion of the Early Childhood Education and Care Program, students can pursue employment in public or private schools and centers. Many students continue their education after Tech at both two and four year colleges.

Career Opportunities

- Nannies
- Recreation Aides
- Teacher Aides/Assistants at:
 - Day Care Centers
 - Elementary Schools
 - Nursery Schools
 - Special Education Schools
 - Before/After School Programs

Advanced Standing Available*

Five Towns College
 Herkimer County Community College
 Nassau Community College
 Pennsylvania College of Technology
 SUNY Canton
 SUNY Cobleskill

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

The demand for well trained child care workers remains high. Many students pursue entry level employment opportunities while others continue their education and training at college.

Student Supplies

Each student will be provided with a Early Childhood Education and Care uniform which is required to be worn while in the on-site learning laboratory.

NYS law requires volunteers at Early Childhood Centers to submit to a background check. To meet this requirement all Early Childhood II students will be fingerprinted in September through the Suffolk County Child Care Council at no cost to the student.

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Occupational Competency Testing Exam (NOCTI) - Early Childhood Care and Education Assessment Exam.

Course Outline

- Practical experience in the on-site Learning Laboratory Pre-school.
- Field site experience in child care centers, elementary schools, schools for the child with special needs and nursery schools
- Study of infants, toddlers, preschoolers, school age children and children with special needs.
- Study of areas of development: intellectual, physical, social, emotional and creative.
- Planning and guiding age appropriate activities including: language arts, music, circle time, art, food experiences and games
- Observation Techniques
- Learning Theories
- Employability Skills

Consider these classes at Tech

- Culinary Arts
- Food Services*
- Medical Assisting
- Nurse Assist/Prof Health Careers
- Police Science & Law

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Equine Studies

accredited by the Certified Horseman's Association (CHA)



EQUINE STUDIES develops the skills and knowledge of caring for horses including feeding, grooming and such daily tasks as turnout; riding and exercising horses for a variety of purposes; cleaning and maintaining horse and riding equipment; diagnosing and treating general injuries and ailments of horses and farm management. Skills developed in this program may be used for entry-level jobs or for college level equine programs.

Work Environment

A person who works with horses may be expected to work alone or with others in a barn and/or stable setting. The worker must be familiar with bandaging, medicating and properly equipping horses. The animals must be fed and cared for every day, 365 days a year. Work is generally begun in the early morning hours.

Career Opportunities

- Agribusiness
- Barn/Farm Manager
- Bloodstock Agent
- Breeding Technician
- Camp Facility Director
- Diagnostic Technician
- Event Coordinator
- Equine Insurance Agent
- Equine Massage/Chiropractor
- Exercise Rider/Riding Instructor
- Farrier
- Groom
- Horse Show Judge
- Horse Transporter
- Horse Trainer
- Hot Walker - Stablehand
- Therapeutic Riding Instructor
- Veterinarian Assistant

Advanced Standing Available*

SUNY Cobleskill
Morrisville State College

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

The horse business is big business. It produces annual goods and services valued at \$25.3 billion according to a recent study commission of the American horse Council (AHC). In New York State alone, the equine related assets have been estimated at \$3.73 billion. This creates a world of opportunity for individuals seeking employment in the equine industry.

Starting Weekly Salaries: \$175 for a hot walker; up to \$500 for a groom; \$250-\$350 for work on a breeding farm; up to \$550 for an exercise rider.

Student Supplies

1. Paddock boots and/or work boots and riding boots
2. Work pants
3. Appropriate clothing for climate changes, i.e. warm clothes and tee shirts

Academic credits integrated:

- Technical Science
- English 12
- Physical Education

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: Certified Horseman's Association's CHA Advanced Level IV Horsemanship Exam.

Course Outline

- Stable Management
- Grooming
- Equine Recordkeeping
- Farrier Science (Hoof Care)
- Horse Equipment (tack and supplies)
- Horse Anatomy
- Feeding & Nutrition
- Mechanics of Locomotion
- Farm Machinery
- Training
- Shipping
- Equitation, jumping and dressage
- Reproduction
- Horse Emergencies
- Health & Maintenance

Consider these classes at Tech

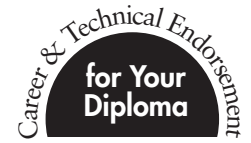
- Certified Personal Trainer
- Early Childhood Education & Care
- Floriculture
- Medical Laboratory
- Nurse Assisting/Prof. Health Careers
- Police Science & Law
- Veterinary Assisting

All placements are based upon individual needs and approval from the district and parent/guardian.



Fashion Merchandising/Design

accredited by the National Association of Family and Consumer Sciences Education



FASHION MERCHANDISING/DESIGN develops the skills and knowledge necessary to enter the fashion merchandising/design industry. Training emphasizes both the theory of fashion and practical applications such as pattern design and clothing construction and prepares the student for the business of fashion in retailing, human relations and store management.

Work Environment

Fashion Merchandising and Design involves planning ways to sell the right merchandise to customers at the right price, at the right time, in the right place, and in the right amounts. In this field, you work with displays, computers, fabrics, models, patterns, and machinery. There is ample opportunity for creativity and self-expression. Success requires a reasonable mixture of manipulative and cognitive skills in display techniques, clothing construction, designing, sketching, buying, and selling.

Graduates work in retail organizations and wholesale showrooms as sales associates where the atmosphere may be very busy. There can be high production quotas as well as deadlines to be met. Jobs can be very "fast track" and challenging. College graduates work as wholesale buyers and managers or as designers in textiles or clothing.

Field visits include: Fashion Institute of Technology, Nassau Community College and a garment factory.

Career Opportunities

Business Owner	Fashion Illustrator
Buyer	Fashion Stylist
Designer	Interior Decorating
Fashion Coordinator	Modeling
Fashion Forecasting	Sales Executive

Advanced Standing Available*

Berkeley College
 Fashion Institute of Design/
 Merchandising (FIDM)
 Laboratory Institute of Merchandising
 (LIM)
 Nassau Community College
 SUNY Cobleskill

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

As more and more retail companies are opening on Long Island, job opportunities are anticipated to increase.

Student Supplies

1. Portfolio binder 11" x14"
2. Loose leaf paper and dividers
3. Protective sheets for portfolio sketches
4. Sketch pad
5. Colored pencils (watercolor)
6. Artistic markers (Pentel, Prisma-color or Prang)
7. Pencils, #2
8. Bienfang Graphics 360 marker paper (11" x 14" at least)

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't
- Art

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Occupational Competency Testing Exam (NOCTI) - Clothing and Textiles Assessment Exam.

Course Outline

- Fashion History
- Design
- Patternmaking
- Fabric Science
- Clothing Construction
- Draping
- Industrial Power Machines
- Visual Merchandising
- Fashion Illustration
- Fashion Show Producing and Participating
- Interior Design
- Retail Math

Consider these classes at Tech

- Advertising Art
- Audio Production
- Cosmetology
- Cosmetology*
- Design and Production Technology*
- Floriculture
- Photography
- Printing*
- Video Production

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Floriculture

accredited by the American Institute of Floral Design (AIFD) and the New York State Nursery Landscape Association



THE FLORICULTURE program combines Horticulture/Landscaping with Floral Arts. Students will learn about the growth and care of plants, lawns, trees and shrubs, greenhouse operations, power equipment, landscape design, floral design and arrangements, indoor plant care, sales and recordkeeping.

Work Environment

Greenhouse work is conducted in a pleasantly controlled environment. Landscapers work outdoors in all kinds of weather conditions. The work can be physically demanding.

Floral Designers use their creative and social skills on a daily basis. Depending upon the size of the shop, Floral Designers will work with small or large groups of workers. Florists work with customers at times of celebration and times of loss.

In the Floriculture field, there are times of the year that are very busy and require the individual to work overtime.

Career Opportunities

Garden Center/Nursery/Greenhouse Designer
Interior Plant Service, Private Estates
Floral Designer
Party Planner
Bridal Consultant
Owner/Manager/Worker in Flower Shop, Gift Basket Shop, Craft Store

Advanced Standing Available*

Alfred State College
Delhi College
Farmingdale State University of NY
Pennsylvania College of Technology
SUNY Cobleskill

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

Expanding job opportunities are everywhere. The increased usage of floriculture services have increased opportunities within the job market. The field is open to both male and female applicants.

Salary: Entry level positions can start at minimum wage or higher – especially with experience and graduation from Wilson Tech. Good Floral Designers may start as high as \$15.00 per hour.

Student Supplies (approx. \$25-\$50)

1. Sturdy closed toe shoes
2. Appropriate work clothes
3. Smocks are provided for in-door use by Wilson Tech

Academic credits integrated:

- Technical Math
- Technical Science
- English 12

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Occupational Competency Testing Exam (NOCTI) - Floriculture Exam.

Course Outline

- Shop and Lab Safety
- Job Opportunities
- Basic Hand Tools/ Equipment Operation
- Plant Classification and Identification
- Principles of Science: Horticulture
- Computer Applications: Horticulture
- Sales, Pricing Strategies
- Decision-making, Problem Solving, Pricing, Planning in Business, Recordkeeping
- Principles of Plant Propagation
- Plant Pest ID & Management
- Nursery/Greenhouse Operation
- Landscape Design
- Holiday Arrangements
- Wedding/Sympathy Design
- Styles of Arrangements
- Ribbons/Bow-making
- Color & Light

Consider these classes at Tech

- Advertising Art
- Building Grounds/ Maintenance*
- Cosmetology
- Cosmetology*
- Equine Studies
- Fashion Merchandising/ Design
- Veterinary Assisting

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Police Science and Law

accredited by the NYS Security Guard, American Red Cross in Adult, Child, and Infant CPR First Responder



POLICE SCIENCE will introduce students to laws that pertain to public and private security, investigative functions and techniques, patrol functions, security and fire alarm systems, access control, and emergency response. This course teaches appropriate skills to deal with social situations and security requirements as they affect the community.

Work Environment

Personnel employed in the field of Police Science and Law may work for public or private institutions, e.g. local police departments, court systems, prisons, military police, store detectives, private security agencies, private businesses, or security installation firms. Technicians also work in computer/data processing jobs related to the industry.

Career Opportunities

Corrections Officer
Court Officer
Data Processor/Computer Processor
Document Examiner
Fingerprint Clerk
Investigator/Investigator Assistant
Military Police Officer
Police Officer
Probation/Parole Officers
Security Guard
Security Systems Installer
Security Systems Maintenance Person
Security Systems Salesperson
Store Detective

Advanced Standing Available*

Briarcliffe College
Farmingdale State University at NY
Herkimer County Community College
Nassau County Community College
SBI Campus
Suffolk County Community College
SUNY Canton
University of New Haven

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

The job outlook in this industry is expected to increase about faster than the average for all occupations due to the increase in the nation's population and police protection needs. With increased residential,

industrial, commercial electronic security, and government interest in security systems, many opportunities in this field will open.

Starting Salary: Median annual salaries of entry-level jobs range from more than \$10/hour for guards in private industry with specialized training, to more than \$20,000/year for guards employed by the Federal Government. Entry-level salaries range between \$25,100 to \$57,811 per year for police officers. With experience and satisfactory job performance, salaries increase substantially. Agencies may also provide special allowances for uniforms and other required equipment.

Student Supplies (approx. \$25)

1. Daily Agenda Book
2. White dress shirt
3. Watch

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't
- Physical Education

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Occupational Competency Testing Exam (NOCTI) - Criminal Justice–Law Enforcement Exam.

Course Outline

- Crime Scene Investigation
- Introduction to the Court System
- Patrol Functions
- Introduction to Computers

- Crisis Intervention/ Emergency Response
- CCTV
- Access Control
- Social and Economic Impact of Alcohol and Drug Abuse
- Career Orientation: Job Seeking, Job Keeping Skills, Administration, Management
- Intro. to NYS Law
- Security Systems
- First Aid and CPR
- Investigative Functions/Techniques
- Code of Conduct - Public Relations
- Development of Physical Skills
- Private and Public Security
- Communications
- Current and Critical Issues
- Principles of Defensive Driving
- Surveillance Systems

Consider these classes at Tech

- Certified Personal Trainer
- Early Childhood Education & Care
- Equine Studies
- Medical Assisting
- Medical Laboratory
- Nurse Assisting/Prof. Health Careers

All placements are based upon individual needs and approval from the district and parent/guardian.



Veterinary Assisting

accredited by the North American Veterinary Technician Association



VETERINARY ASSISTING is an important part of the veterinary health care team in clinics, zoos, pet shops and research facilities. Students work with a large variety of animals such as dogs, cats, rodents, birds/poultry, farm animals, and reptiles. Students will learn about general care and feeding of various species as well as tasks the veterinary assistant performs under the guidance of a veterinary technician or veterinarian. Tasks include: animal feeding, basic animal grooming, animal nursing, common office/clinic procedures, client education, exam room procedures, surgical and diagnostic lab procedures, maintenance of animal/medical records on computers and other skills as recommended by the North American Veterinary Technician Association. Day students will participate in a vaccination clinic onsite at Manor Plains. Students may receive certificates in kennel maintenance, shelter operator, and veterinary foundations.

Work Environment

Veterinary Assistants have a wide range of employment opportunities in animal clinics, veterinarian's offices, pet stores, laboratories, pet grooming shops, animal shelters, zoos, and preserves.

Career Opportunities

Veterinary Assistant
Lab Animal Technician
Grooming Assistant
Pet Shop employee
Animal Caretaker
Field Biologists Assistant
Zookeeper

Advanced Standing Available*

Suffolk County Community College
SUNY Canton
SUNY Cobleskill

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

As the small pet industry grows, the need for qualified animal support personnel grows along with it. Graduates of this program can expect to find immediate career opportunities as veterinary assistants, grooming assistants, pet shop employees, or clinic assistants. Students who continue their training and gain valuable experience can expect to enjoy such opportunities as a veterinary technician, laboratory animal technologist,

professional groomer, or pet shop manager. Students who continue on to college may study veterinary science, biotechnology, business management, or animal husbandry.

Starting salaries in this field tend to range from \$10 to \$12/hour; part-time and evening work is available.

Student Supplies (approx. \$50)

1. Lab Coat or scrub coat
2. Gloves (garden type)
3. Work shoes (non-slip) or boots
4. Current Tetanus vaccination is recommended

Academic credits integrated:

- Technical Science
- English 12

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: Animal Care Training (ACT) exam - Animal Care Training Exam.

Helpful Preparatory Courses

- Biology
- Chemistry

Course Outline:

- Individual Animal Care & Handling Bio-profiles

- Basics in Grooming
- Office, Hospital & Kennel Maintenance Procedures
- Small Animal Nursing & Pharmacology
- Client Communication/Medical Record Keeping
- Exam and Treatment Room Procedures
- Surgical Preparation and Assisting
- Laboratory Procedures
- Animal Disease & Health Maintenance
- Diagnostic Imaging Assisting

Consider these classes at Tech

- Certified Personal Trainer
- Early Childhood Education & Care
- Equine Studies
- Floriculture
- Medical Assisting
- Medical Laboratory
- Nurse Assisting/Prof. Health Careers

All placements are based upon individual needs and approval from the district and parent/guardian.

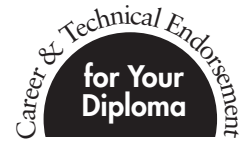
Career Majors in Technical Occupations

**Computer Networking & Repair/
Technical Electronics
Web and Internet Technology**



Computer Networking & Repair/ Technical Electronics

accredited by COMP/TIA and Cisco



COMPUTER NETWORKING consists of instruction in repairing computers and installing operating systems and networking. Students completing this course will learn to test, troubleshoot, install, and repair computer equipment and networks. Students will learn to upgrade computer hardware and install software in preparation to enter this expanding technical field. Another component of this course is digital electronics, logic circuits, and their application to computers.

TECHNICAL ELECTRONICS consists of instruction and practice in basic electronic theory with emphasis on circuit analysis and construction. Students learn electronic principles through theoretical class discussions coupled with experimentation and computer-aided instruction.

Work Environment

Computer repair technicians troubleshoot and repair computer equipment at homes, industrial sites, or offices. Electronic Technicians experiment, design, fabricate, and test a variety of circuits utilizing electronic instruments.

Career Opportunities

Computer Repair Technicians
Computer Equipment Repairperson
Engineering Assistant
Field Technician
Communications Technician
Electrical Assembler
Electronic Equipment Repairperson
Electronic Field Technician
Electronics Marketing
Engineer Design Assistant
Inspector

Advanced Standing Available*

Briarcliffe College
Pennsylvania College of Technology
SBI Campus
Suffolk County Community College
SUNY Canton
SUNY Farmingdale

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

There is a large demand, at present, for Computer Repair Technicians, Internet Technicians and Electronic Technicians with growth expected to increase much faster than in other careers. Advanced study in this industry would lead to promotional opportunities.

Starting Salary: Entry-level wages average \$320-\$540/week, depending on ability, education, and experience.

Student Supplies (approx. \$30)

1. Scientific calculator
2. Small handtools

Helpful Preparatory Courses

- Math
- Science

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: COMPTIA Network+ exam or the National Occupational Competency Testing Exam (NOCTI) - Electronic Technology Exam.

Course Outline

- Comptia A+ Certification
- Game Console Repair
- Introductory Electronics
- Digital Electronics Concepts
- Computer Software Application
- Network Cabling
- Troubleshooting and Diagnosis
- Computer Components/Installation

- Computer Peripherals
- Telecommunication
- Routers and Switching Devices
- Introduction to Computer Networks
- Advanced Networking
- Network+ Certification
- Cisco Certified Network Associate
- Test Equipment
- Power Supplies
- Solid State Circuits
- Transmitters/Receivers
- Audio Amplification
- Digital Concepts and Circuits
- Digital Test Equip.
- Computer Hardware Upgrades
- Computer Software
- Solar Panel Electronic Systems
- Home Theatre Design

Consider these classes at Tech

- Audio Production
- Construction Electricity
- Electronic Manufacturing*
- Video Production
- Web & Internet Technology

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Web and Internet Technology

Accredited by Certified Internet Web Professional



The WEB and INTERNET TECHNOLOGY program will provide students with instruction leading to credentials in internet & web knowledge and skills that are recognized throughout the industry. The program is targeted to students interested in web design, site development and administration. Students will earn a Certified Internet Webmaster (CIW) Design Associate Specialist Certificate.

Work Environment

Web and internet technicians usually work for small companies or large corporations and may specialize in a particular area. Their work spaces are usually well-lit and comfortable. Workers may work individually or participate in group projects. Individuals seeking a career within the area of Internet and Web Technology must have up-to-date knowledge of website development, multimedia graphics, image and animation tools. Individuals should be self-motivated, conscientious and organized.

Career Opportunities

- Database Management
- Information Designers
- Network Administration
- Page and Site Designers
- Software Programming
- Web Animators
- Web Development
- Web Script Language Developers

Advanced Standing Available*

Berkeley College
Boston University
Briarcliffe College
Dowling College
Pennsylvania College of Technology

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

Growing opportunities will be available on both a local and national level.

Starting Salary: \$400 per week, \$20,000-\$22,000 yearly.

Student Supplies

There are no student-purchased supplies necessary.

Helpful Preparatory Courses

- Keyboarding

Academic credits integrated:

- English 12
- Technical Math
- Technical Science

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: Prosoft (Pearson Vue) - Certified Internet Webmaster (CIW) Associate Exam.

Course Outline

- Basic knowledge of Internet technologies
- Network Infrastructure
- Website authoring using HTML
- Web page design using multimedia, graphics, image and animation tools

Consider these classes at Tech

- Admin. Assistant/ Office Technology
- Advertising Art
- Drafting/Computer Aided (CAD)
- Office Skills*

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.

Career Majors in Transportation

Aircraft Maintenance Technology

Auto Body Repair

Automotive Technology

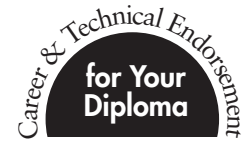
Aviation Science/Flight

Marine Technology



Aircraft Maintenance Technology

accredited by the Federal Aviation Administration (FAA)



AIRCRAFT MAINTENANCE TECHNOLOGY provides both the hands-on experience and the related knowledge to service, repair and overhaul reciprocating and turbine engines and components, powerplant control systems, instrumentation, induction and exhaust systems. Students will work toward the Powerplant license by studying under regulations of the Federal Aviation Administration (FAA).

Work Environment

Students will practice skills in airframe structures and powerplant overhaul, working under very rigid procedures and the close supervision of inspectors. Students will observe strict federal safety rules and regulations.

Career Opportunities

Aircraft Manufacturer
Airframe & Powerplant Technician
Airline Supervisor
Avionics Technician
Engineering Technician
FAA Maintenance Inspector
Ground Operations Manager
Local Utility Powerplant Operator
Military Crew Chief
Repair Station Repairman

Employment Outlook

Personnel are needed to fill positions in the field of commercial airline and general aviation. More small and intermediate size aircraft are used by private industry, requiring licensed mechanics to perform all repairs.

Starting Salary: National average earnings range from \$10–\$15/hour for a 35–40 hour week in general aviation and \$20–\$40/hour in commercial airline field.

Advanced Standing Available*

Dowling College
Pennsylvania College of Technology
Check with the Aviation Technical Education Council, further information on post-secondary schools may be provided.

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Student Supplies (approx \$75)

1. One-piece blue coverall
2. Safety work shoes
3. 6-in. steel scale

Post-Secondary Opportunities

Upon successful completion of the Aircraft Maintenance/Airframe Technology Program and enrollment in a college or university, students can be granted up to 36 credits because of Federal License Regulations. Wilson Tech has Articulation Agreements offering advance standing with many post-secondary institutions that offer degrees in Aviation Technology.

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't
- Art

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: Federal Aviation Administration qualifying exam in Aircraft Maintenance-General.

Course Outline

- Federal Aircraft Safety Procedures
- Aircraft Blueprints/Drawings
- Basic Electricity
- Airframe and Powerplant Electrical Systems
- Airframe and Powerplant Hydraulic Systems

- Reciprocating and Turbine Engine Repair and Overhaul
- Powerplant Inspection and Operation
- Powerplant Systems and Components

Consider these classes at Tech

- Auto Body Repair
- Auto Maintenance*
- Auto Technology
- Aviation Science/Flight
- Computer Networking & Repair/ Technical Electronics
- Drafting/Computer Aided (CAD)
- Marine Technology

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.

Note: In order to meet FAA licensure requirements, students must attend a seven-week summer session. Juniors who can make transportation arrangements and have parental permission may attend immediately after their junior year. The summer session is at no additional cost to districts.

Scheduling Information

Grades: 11 & 12
Length: 2 years,
+ 7 week
summer class
Units: 9
Location: Republic
Airport
Sessions: AM/PM



Auto Body Repair

accredited by the National Automotive Technical Education Foundation (NATEF)



AUTO BODY REPAIR provides instruction in basic and advanced auto body repair, with as much emphasis on theory as practical applications. Using up-to-date equipment, students learn the use of auto body plastics, specialized tools, and spray painting; develop the mechanical ability to restore damaged vehicles to their original condition; and learn how to estimate jobs.

Work Environment

Auto body shops are noisy and dusty by nature where strict safety rules must be followed for welding, metal straightening, painting and replacing auto glass. Protective goggles, work shoes, ear protection, masks and work clothing are required.

Career Opportunities

Automotive Detailing
Fiberglass Body Repairperson
Frame Alignment and Unitized Body Repairer
Heavy Collisionperson
Insurance Adjuster
Masker/Helper
Parts Counterperson
Repair Shop Owner
Shop Foreperson and Service Manager
Spray Painter (custom painting)
Wrecking Yard Manager

Advanced Standing Available*

Alfred State College
Baran Institute of Technology
Ohio Technical College
Pennsylvania College of Technology

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

The New York/Long Island area has a strong demand for skilled auto body repair people. Future demand will remain constant.

Starting Salary: The national average for a 40-hour week in the auto body trade is minimum wage to \$15/hour. Higher earnings can be expected for specialized areas.

Student Supplies (approx. \$65)

1. Navy blue coveralls
2. Work shoes
3. Safety glasses and dust masks are loaned to each student for his/her exclusive use during the school year.

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Occupational Competency Testing Exam (NOCTI) exam in Collision Repair.

Course Outline

- Shop and Field Safety Procedures
- Power Tools
- Frame Straightening/Unibody Repair & Terminology
- Auto Body Plastics and Fiberglass
- Compounding and Polishing
- Hand Tools
- Welding and Brazing Equipment
- Metal Stretching & Shrinking
- Painting-spot repair and overall refinishing
- Glass Replacement
- Estimating
- Automotive Detailing

Consider these classes at Tech

- Aircraft Maintenance Technology
- Auto Maintenance*
- Auto Technology
- Marine Technology
- Welding

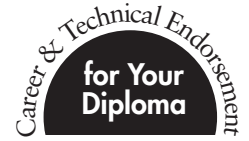
All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Automotive Technology

accredited by the National Institute for Automotive Service of Excellence (ASE)



AUTOMOTIVE TECHNOLOGY provides the theory and skills needed for light and heavy duty repairs to the automobile engine, transmission, chassis and suspension system. Students use up-to-date electronic and hydraulic test equipment to precisely diagnose today's sophisticated automobile. This is a NATEF/ASE certified training program.

Work Environment

The auto technician may work in service stations, small repair shops or new car dealerships to maintain, troubleshoot and repair the various automotive systems. The number of employees may vary from two to 20. The work week may vary from 40–50 hours. The work is primarily indoors; however, there is a percentage of on-the-road work.

AYES Program

The Wilson Tech Automotive Technology program has met the requirements to participate in the Automotive Youth Educational Systems (AYES) program. In conjunction with local dealerships, students can participate in job shadowing, mentoring, and paid work study experience. Through the AYES program many of our students, both from the Northport and Dix Hills campuses are employed at dealerships such as: Huntington Honda, Habberstad BMW, Huntington Audi, and Babylon Honda to name a few.

Career Opportunities

Automotive Technician
Business Owner
Parts Department
Service Manager
Service Writer
Shop Supervisor
Specialized Auto Repairperson

Advanced Standing Available*

Alfred State College
Baran Institute of Technology
Delhi College
New England Institute of Technology
Ohio Technical College
Pennsylvania College of Technology

Suffolk County Community College
SUNY Canton
Universal Technical Institute

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

The demand for trained auto technicians has increased in recent years. When people keep their cars for longer periods of time it increases the demand for auto technicians. Approximately 10,000 new technicians are needed each year. This figure does not take into account the number of technicians who retire or change jobs.

Starting Salary: \$9/hour to a maximum of \$30/hour.

Student Supplies (approx. \$75)

1. Blue work shirt/work pants
2. Safety work shoes
3. Safety goggles are provided to students for use in the shop/laboratory area.

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Automotive Student Skills Standards Assessment - Automobile Service.

Course Outline

- ASE/NATEF Certified Modules
- Lubrication
- Exhaust System Repair
- Front-End
- Engine Overhaul
- Alternator Service
- Carburetor Service
- Electronic Test Equipment
- Tire Repair
- Brakes
- Alignment and Repairs
- Engine Tune-up
- Clutch Repairs
- Transmission Service/Repair
- Air-Conditioning Service
- Fuel Injection
- Computerized Controls

Consider these classes at Tech

- Aircraft Maintenance Technology
- Auto Body Repair
- Auto Maintenance*
- Computer Networking & Repair/Technical Electronics
- Marine Technology
- Welding

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Aviation Science/Flight

accredited by the Federal Aviation Administration (FAA)



AVIATION SCIENCE/FLIGHT develops the skills, attitudes and related flight background required by the aviation industry. Students will receive ground school as well as actual instruction and flight time in a primary training aircraft. All flight time earned will be recorded in student log-books, and can be credited toward additional flight instruction and ratings. A Federal Aviation Administration (FAA) approved curriculum is used including practical test standards. A nationally recognized college level aviation fundamentals textbook is the core of the ground/academic instruction. Students will also use computers with flight training simulator programs and graphics as well as academic software to cover aviation science areas and FAA exam material.

Work Environment

The professional pilot may work in several environments: commercial airlines utilizing large jets, regional airlines with smaller jets or turboprop airplanes, the military, or private businesses. Other positions may be in air traffic control, airport management, air carrier operations, or related governmental positions.

Career Opportunities

Air Traffic Controller
Airport Management
Aviation Sales
Aviation Law
Dispatcher
Flight Instructor
FAA Flight Service Specialist
Ground Instructor
Passenger Agent
Pilot (Airlines, Corporate, General)
Tower Operations

Advanced Standing Available*

Dowling College
Farmingdale State University of NY
Vaughn College of Aeronautics

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

Personnel are needed to fill positions for general, corporate, and commercial aviation. There is an ever increasing demand for trained personnel with related flight background.

Student Supplies (approx \$100)

1. Aeronautical Charts/Maps
2. Pilots logbook
3. 3rd Class FAA Medical Exam (from an FAA medical examiner)
4. E-6B Computer/Plotter

Required for Sequence Credit

Career and Financial Management

Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: Federal Aviation Administration (FAA) Exam in Private Pilot Written Knowledge Exam (PPWKE).

Course Outline

- FAA Regulations
- Aircraft Safety
- Aerodynamics
- Flight Operations
- Controlled Airspace
- Radio Procedures
- Aircraft Instruments
- Aircraft Systems
- Meteorology
- Preparation for FAA Exams
- Aviation Weather Reports/Charts
- Aeromedical Factors
- Weight & Balance
- Powerplant/Engine
- Basic Navigation
- Radio Navigation
- Flight Planning

Consider these classes at Tech

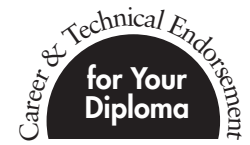
- Aircraft Maintenance Technology
- Auto Technology
- Computer Networking & Repair/Technical Electronics
- Drafting/Computer Aided (CAD)

All placements are based upon individual needs and approval from the district and parent/guardian.



Marine Technology

accredited by the Equipment & Engine Training Council (EETC)



MARINE TECHNICIANS who can service boat engines and operate marinas are in demand due to a growth in recreational boating on Long Island and nationally. This demand, along with the advances of marine propulsion, has created the need for competent and highly trained employees. While Marine Technology will be emphasized, this course will also teach students to make repairs and install engines, drivetrains, and control parts on landscape and industrial powered equipment.

Work Environment

Marine Technicians are generally employed in outside boatyards, marinas, engine repair facilities, as well as on fleet boats. Those seeking employment working with small engines are generally employed in small shops and work both indoors and outdoors.

Career Opportunities

Boat Transport
Boat Yard Maintenance
Business Owner
Marine Service Person
Salesperson
Shop Foreperson
Technician
Technical Representative

Employment Outlook

There is a strong demand for Marine Technologists and recreational vehicle technicians in the New York/Long Island area. The future demand for workers repairing snowmobiles, motorcycles, lawn and garden equipment and particularly marine craft is excellent as leisure time activities continue to grow.

Starting Salary: Salaries range from minimum wage up to \$20/hour, depending on individual abilities and aptitude.

Advanced Standing Available

Kingsborough Community College
New England Institute of Technology
SUNY Canton
SUNY Cobleskil
University Technical Institute

Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Student Supplies (approx. \$75)

1. Long or short-sleeved coverall (dark blue, preferred)
2. Safety work shoes
3. Safety glasses or goggles will be supplied for use in class

Academic credits integrated:

- Technical Math
- Technical Science
- English 12

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: Equipment Engine Training Council (EETC) - 2 Cycle Engine Test and 4 Cycle Engine test (subject to change).

Course Outline

- Boat Yard Skills
- Transport and Handling
- Fuel Ignition and Drive Systems
- Inboard Technology
- Outboard Technology
- Marine Engine and Service Fundamentals
- Outboard and Inboard Engines
- Safety and Navigation
- Fiberglass Boat Repair
- Boat Trailer Service
- Electric and Auxiliary Systems
- Servicing, Rebuilding, and Maintenance of Small Engines
- Landscape Equipment Maintenance

Consider these classes at Tech

- Aircraft Maintenance Technology
- Auto Body Repair
- Auto Maintenance*
- Auto Technology
- Building Trades*
- Carpentry
- Drafting/Computer Aided (CAD)
- Welding

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.