

Career Majors in Construction

Architectural Design/CAD

Carpentry

Construction Electricity

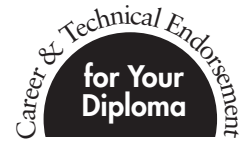
Heating/Ventilation/Air Conditioning

Welding



Architectural Design/CAD

accredited by the American Design Associates (ADA)



Architectural Design/CAD prepares students for entry level positions in an architectural firm and other related fields. The course develops the basic skills necessary for both architecture and building construction. Students will learn a variety of methods for developing residential and commercial projects. The students will learn the proper techniques for the preparation of design presentation and construction drawings. Detailed floor plans, foundation plans, building sections and elevations are covered in the coursework. In addition to mastering the skills needed to understand Architecture and CAD, instruction also includes lessons about architectural history and “green” renewable technologies. Students will become proficient at computer aided drafting using the AutoCAD software program.

Work Environment

Architects and their associates prepare clear and accurate working plans and detailed drawings from rough sketches. Those associates who specialize in AutoCAD are employed in 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.

Career Opportunities

Architect
Business Owner (drafting, home improvement, technical consulting)
CAD Operator
Green Technology Consultant
Construction Company Owner
Detailer
Engineer
Estimator
Expeditor
Interior Designer
Landscape Designer
Manufacturers Representative
Project Manager
Salesperson
Specifications Writer

Advanced Standing Available*

Art Institute of Pittsburgh
Island Drafting & Technical Institute

New England Institute of Technology
Pennsylvania College of Technology
SUNY Canton
SUNY Delhi
SUNY Farmingdale

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

Employment Outlook

Employment opportunities for Architects/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:

No student-purchased supplies necessary.

Academic credits integrated:

See chart, page 26

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) - Architectural Drafting.

Course Outline

- Careers in Architecture
- Equipment & Supplies
- Construction Drawings
- Presentation Drawings
- Residential Design
- Commercial Design
- Site Planning
- Model Making
- Computer Aided Drafting
- Renewable Green Technology Building Systems

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.



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*

New England Institute of Technology
Pennsylvania College of Technology
SUNY Alfred
SUNY Delhi

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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. Work shirt, jeans/carpenter's pants
2. Hard-soled 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:

See chart, page 26

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
- Green Technology
- 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

- Architectural Design/ CAD
- Building Grounds/ Maintenance*
- Building Trades*
- Construction Electricity
- Design and Production Technology*
- 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*

Electrical Training Center of L. I.
Lincoln Technical Institute
New England Institute of Technology
Pennsylvania College of Technology
SUNY Canton
SUNY Alfred
SUNY Delhi

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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
3. Work shirt and pants

Academic credits integrated:

See chart, page 26

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

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

Electrical Training Center of L. I.
Lincoln Technical Institute
New England Institute of Technology
Pennsylvania College of Technology
SUNY Alfred
SUNY Canton
SUNY Delhi

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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:

See chart, page 26

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
- OSHA
- Troubleshooting/Diagnosis
- System and Unit Repair
- Clean Air Requirements
- Plumbing

Consider these classes at Tech

- Architectural Design/CAD
- Building Grounds/Maintenance*
- Building Trades*
- Carpentry
- Construction Electricity
- Welding

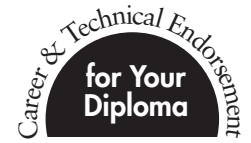
All placements are based upon individual needs and approval from the district and parent/guardian.

*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*

Lincoln Technical Institute
Pennsylvania College of Technology
SUNY Delhi

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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. \$200)

1. High top boots, long pants, long sleeved shirts, welding hat or baseball cap, welding gloves
2. Welding Equipment: welding hood, hammers (chipping, ball peen), wire brush, striker
3. Tools: Screwdrivers, tool box, tape ruler, adjustable square, pliers, wrench, scribe, vise grip

Academic credits integrated:

See chart, page 26

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 Technology
- Architectural Design/CAD
- Auto Body Repair
- Auto Maintenance*
- Auto Technology
- Building Trades*
- Carpentry
- Construction Electricity
- Design and Production Technology*
- Heating/Ventilation/AC (HVAC)
- Marine & Motor Sports Technology

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

*Smaller class size.

Career Majors in Graphics & Media

Advertising/Graphic Design

Audio Production

Photography

Video Production



Advertising/Graphic Design

accredited by Adobe Certified Expert



ADVERTISING/GRAPHIC DESIGN 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 Philadelphia
Art Institute of Pittsburgh
Boston University
Briarcliffe College
Dowling College
Nassau Community College
New England Institute of Technology
Pennsylvania College of Technology
SBI Campus
Dual Enrollment–Suffolk County CC
Excelsior Program

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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:

See chart, page 26

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

- Architectural Design/CAD
- Audio Production
- Computer Technology for Business
- Cosmetology
- Cosmetology*
- Design and Production Technology*
- Fashion Merchandising/Design
- Photography
- Printing*
- Video Production

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 analog and digital 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 and producers 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. Producers 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
- On/Off Air Talent

Advanced Standing Available

Art Institute of Pittsburgh
 Boston University
 Five Towns College
 New England Institute of Technology
 Pennsylvania College 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 \$30,000.

Student Supplies

1. Flash drives recommended
2. Wilson Tech t-shirt for location and field trips

Academic credits integrated:

See chart, page 26

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

- Pro Tools recording
- Music Arrangement
- Live sound re-enforcement
- Multi-track audio recording
- Electronic instrumentation, operation and composition
- Audio-mixing consoles
- Microphone Techniques
- Digital recorders
- Multi-track editing systems
- Music History
- Audio for Film/Video
- Apple Logic scoring
- Room Acoustics and Design

Consider these classes at Tech

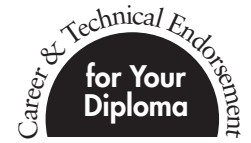
- Advertising/Graphic Design
- Computer Networking & Repair/Technical Electronics
- Computer Technology for Business
- Photography
- Video Production

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



Photography

accredited by Media West



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 Philadelphia
Art Institute of Pittsburgh
Boston University
Pennsylvania College of Technology

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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 \$360.

Student Supplies (approx. \$60)

1. Wilson Tech t-shirt for location and field trips
2. Students may use their own 35mm SLR or DSLR camera
3. 4 gig SD card required for projects
4. 8 gig flash drive recommended

Academic credits integrated:

See chart, page 26

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: SkillsUSA.

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
- Polaroid Emulsion Lift
- Publicity, Industrial Products, and Fashion work
- Black and White Photographic Printing
- Color Skills
- Computer Skills
- Advanced Printing Techniques

Consider these classes at Tech

- Advertising/Graphic Design
- Architectural Design/CAD
- Audio Production
- Cosmetology
- Cosmetology*
- 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 41.

Employment Outlook

With the increase of cable and internet, opportunities in this field are ever-growing.

Starting Weekly Salaries: Average salary for video editors is \$41,000. Film editors work on a project basis for negotiated compensation.

Student Supplies

1. Recommend 8 gig flash drive.
2. Wilson Tech t-shirt for location and field trips

Academic credits integrated:

See chart, page 26

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/Graphic Design
- Audio Production
- Carpentry
- Computer Networking & Repair/Technical Electronics
- Computer Technology for Business
- Construction Electricity
- Cosmetology
- Cosmetology*
- Fashion Merchandising/Design
- Photography
- Printing*

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

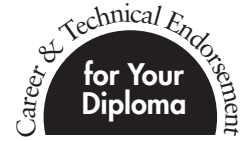
Nurse Assisting

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. 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 and Medical Collections.

Career Opportunities

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

Advanced Standing Available*

Monroe College
Pennsylvania College of Technology
SBI Campus
SUNY Canton
Wilson Tech

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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 condi-

tions, with a 40 hour work week.

Part-time work is available and hours may include evenings and weekends.

Student Supplies

First year juniors, one year seniors

1. Navy blue scrubs, top and pants

Second year eligible clinic seniors

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

Helpful Preparatory Courses

- Biology

Academic credits integrated:

See chart, page 26

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) Medical Assisting 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
- 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*

New England Institute of Technology
Pennsylvania College of Technology
SBI Campus
SUNY Canton
SUNY Famingdale
Wilson Tech

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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. Indi-

rectly influencing growth in the field are the following: greater health consciousness, 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- first year students
2. Lab Coat- long sleeved, knee length
3. Scrubs, top and pants
4. Navy blue zipper front tunic top, white pants
5. Non-cloth all white sneakers-2nd year clinics tudents
6. Name pin
7. Physical examination
8. Watch with second hand (not digital)

Helpful Preparatory Courses

- Living Environment
- Chemistry

Academic credits integrated:

See chart, page 26

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
- Standard Precautions
- Study Skills
- Telephone Comm.
- Intro. to Parasitology
- Resumé writing on job applications
- Applied language and math skills
- Interview Skills
- Clinical Internship

Consider these classes at Tech

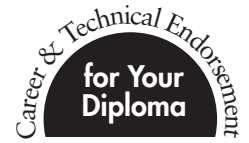
- Medical Assisting
- Nurse Assisting/Prof. Health Careers
- Veterinary Assisting

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.

The Nurse Assisting class is available to juniors and seniors. It is a one year program in which juniors and seniors who are Certificate eligible (those who have passed the Nurse Assisting class, fulfilled their clinic hours, and met the attendance requirement) may sit for the Certified Nurse Aide (CNA) examination. Juniors who have met the above criteria, but who have not taken/passed the CNA exam, are still eligible to enter the Professional Health Careers program the following year as seniors, where they would qualify to take the CNA exam.

Work Environment

Nurse Assistants engage in bedside nursing care under the direction of a LPN or 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 Attendant
Rehabilitation Aide

Advanced Standing Available*

Pennsylvania College of Technology
SBI Campus

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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
5. Watch with second hand (not digital)

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.

Academic credits integrated:

See chart, page 26

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
- Diseases and Disorders

Consider these classes at Tech

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



Professional Health Careers

approved by NYS Education Department



PROFESSIONAL HEALTH CAREERS is available only to seniors who have previously taken the Nurse Assisting program. Seniors must have either passed the Certified Nurse Aide (CNA) examination during their junior year or, if not, be Certificate eligible (passed the Nurse Assisting class, fulfilled their clinic hours, and met the attendance requirement). Those seniors who complete the entire program sequence and are Certified Nurse Assistants will qualify to take the Patient Care Technician Certification examination. At Wilson Tech, opportunities for Advanced Standing in adult Practical Nursing and Surgical Technology are available provided that the student fulfills the stated criteria.

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, Physicians' Offices, Rehabilitation Centers, Clinics, Long Term Care Facilities

Advanced Standing Available*

Dowling College
Pennsylvania College of Technology
SBI Campus
SUNY Canton
Wilson Tech Adult LPN and Surgical Technology

- 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.
- Matriculation occurs within 6 months.
- Passing grade in pre-entrance exam for Practical Nursing and Surgical Technology.

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

Employment Outlook

With increased demands for care of the sick and disabled, Certified Nurse Assistants, Patient Care Technicians, LPNs, Surgical Technologists, Medi-

cal 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, Navy zip front top and pants, Navy scrubs
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:

See chart, page 26

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.

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)

Career Majors in Service Occupations

Certified Personal Trainer

Cosmetology

Culinary Arts

Early Childhood Education

Equine Studies

Fashion Merchandising/Design

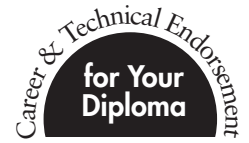
Police Science and Law

Veterinary Assisting



Certified Personal Trainer

Accredited by National Council on Strength and Fitness (NCSF)



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 National Council on Strength and Fitness (NCSF) 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

Advanced Standing Available

Dowling College

Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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:

See chart, page 26

Helpful Preparatory Courses

- Living Environment
- Health
- 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 Council on Strength and Fitness (NCSF) - Personal Trainer.

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
- 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 reconstruction, hair removal, nail and skin care. Practical application of theory is stressed. First year students first work on mannequins and then on each other. Second year students advance their skills by 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 this NYS approved 1000-hour cosmetology course.

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*

Douglas Education Center
Wilson Tech Adult Esthetics

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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:

See chart, page 26

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
- Infection Control
- 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/Graphic Design
- Audio Production
- Cosmetology*
- Fashion Merch/Design
- 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*

Art Institute of Philadelphia
Culinary Institute of America
Johnson & Wales University
Lincoln Culinary Institute
Monroe College
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 In-

stitute of America, Johnson & Wales University, Kendall College, New England Culinary Institute, Oklahoma 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 41.

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. \$80)

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:

See chart, page 26

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
- Regional American Cuisine
- International Cuisine
- Food Plate Presentation & Styling
- Breakfast Cooking
- Garde Manager
- Nutritional Cooking

Consider these classes at Tech

- Early Childhood Education
- Food Services*
- 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

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 work experience in our Learning Laboratory Preschool and at offsite high school internships.

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

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

Advanced Standing Available*

Five Towns College
 Herkimer County 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 41.

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 uniform top which is required to be worn while in the on-site learning laboratory and out in the field. The student will be required to wear black pany and white sneakers.

NYS childcare regulations require that students participating in the Early Childhood II internship program will be required to provide a completed medical clearance form, including Mantoux test, by their health provider, and get fingerprinted prior to attending the internship program

Academic credits integrated:

See chart, page 26

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 Preschool.
- Field site experience in child care centers, elementary schools, schools for the child with special needs
- 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: literacy language arts, music, circle time, art, food experiences and games
- Observation Techniques
- Theories of Child Development
- Employability Skills
- Health & Safety

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

Barn/Farm Manager
Bloodstock Agent
Breeding Technician
Camp Facility Director
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 Alfred
SUNY Cobleskill

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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: \$200 for a hot walker; up to \$500 for a groom; \$250-\$350 for work on a breeding farm; up to \$650 for an exercise rider.

Student Supplies

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

Academic credits integrated:

See chart, page 26

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
- Training
- Shipping
- Equitation, jumping and dressage
- Reproduction
- Horse Emergencies
- Health & Maintenance
- Bandaging

Consider these classes at Tech

- Certified Personal Trainer
- Early Childhood Education
- 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

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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. Vellum paper
5. Colored pencils (watercolor)
6. Artistic markers (Pentel, Prisma-color or Prang)
7. Pencils, #2
8. Bienfang Graphics 360 marker paper (11" x14" at least)
9. Plastic bin, no larger than 25" x15"
10. Lab jacket will be created in class and required as a daily uniform

Academic credits integrated:

See chart, page 26

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/Graphic Design
- Audio Production
- Cosmetology
- Cosmetology*
- Design and Production Technology*
- Photography
- Video Production

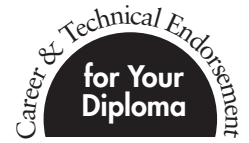
All placements are based upon individual needs and approval from the district and parent/guardian.

*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, 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, and private businesses. 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 Salesperson
Store Detective

Advanced Standing Available*

Briarcliffe College
Herkimer County Community College
Monroe College
Nassau County Community College
SBI Campus
SUNY Canton
SUNY Farmingdale

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

Employment Outlook

The job outlook in this industry is expected to increase about faster than the average for most 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 continue to expand.

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.

Academic credits integrated:

See chart, page 26

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 Laws
- 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
- 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 National Association of Veterinary Technicians in America



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 National Association of Veterinary Technicians in America. Day students will participate in a vaccination clinic onsite at Manor Plains. Students may receive certificates in kennel maintenance, shelter worker, veterinary foundations and bite safety.

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 Alfred
SUNY Canton
SUNY Cobleskill

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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 techni-

cian, 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 top
2. Gloves (garden type)
3. Work shoes (non-slip) or boots
4. Current Tetanus vaccination is recommended
5. Large 3 ring binder/???????

Academic credits integrated:

See chart, page 26

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 .

Helpful Preparatory Courses

- Biology with lab
- Chemistry with lab

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
- 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.

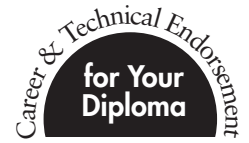
Career Majors in Technical Occupations

**Computer Networking & Repair/
Technical Electronics**

Computer Technology for Business



Computer Networking & Repair/ Technical Electronics



accredited by Cisco Systems and International Society of Certified Electronics Technicians (CompTia)

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
Monroe College
Pennsylvania College of Technology
SBI Campus
SUNY Canton
SUNY Farmingdale
Vaughn College

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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:

See chart, page 26

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
- Computer Technology for Business
- Construction Electricity
- Electronic Manufacturing*
- Video Production

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

*Smaller class size.



Computer Technology for Business

Accredited by Microsoft Office Specialist (MOS) and Certified Internet Web Professional



The COMPUTER TECHNOLOGY FOR BUSINESS program will provide students with instruction and credentials that are recognized throughout the industry. Students will develop an overview of business organizations, managerial processes and software systems, internet knowledge and web technology. Hands-on opportunities will be available to explore computer productivity tools and the internet.

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 Computer Technology are usually located in well-lighted, comfortable areas. Workers will be expected to participate in group projects as well as work individually. Students are expected to be mature, self-motivated, conscientious, well organized and able to work accurately.

Individuals within the area of Computer Technology for Business 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 Design

Advanced Standing Available*

Art Institute of Pennsylvania
Berkeley College
Boston University
Briarcliffe College
Dowling College
Five Towns College
Monroe College
New England Institute of Technology
SUNY Canton

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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 (approx. \$10)

1. 1 gb or higher flash drive

Academic credits integrated:

See chart, page 26

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
- Entrepreneurship

Consider these classes at Tech

- Medical Assisting
- 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 Technology

Auto Body Repair

Automotive Technology

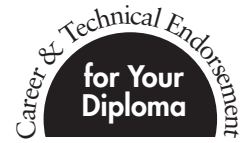
Aviation Science/Flight

Marine & Motor Sports Technology



Aircraft 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

Aviation Lawyer
Aircraft Manufacturer
Airframe & Powerplant Technician
Airline Supervisor
Avionics Technician
Engineering Technician
FAA Maintenance Inspector
Local Utility Powerplant Operator
Military Crew Chief
Repair Station Repairman
Security Specialist

Employment Outlook

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

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

Advanced Standing Available*

Dowling College
Embry Riddle Aeronautical University
Pennsylvania College of Technology
Vaughn College of Aeronautics

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 41.

Student Supplies (approx \$75)

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

Post-Secondary Opportunities

Upon successful completion of the Aircraft Maintenance Technology Program and enrollment in a college or university, students can be granted up to 48 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 and Aeronautical Science.

Academic credits integrated:

See chart, page 26

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 or Powerplant.

Course Outline

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

- Airframe and Powerplant Hydraulic Systems
- Airframe Structures
- Material & Processes
- Reciprocating and Turbine Engine Repair and Overhaul
- Powerplant Inspection and Operation
- Powerplant Systems and Components

Consider these classes at Tech

- Architectural Design/ CAD
- Auto Body Repair
- Auto Maintenance*
- Auto Technology
- Aviation Science/ Flight
- Computer Networking & Repair/ Technical Electronics
- Marine & Motor Sports 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.



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)

Advanced Standing Available*

Lincoln Technical Institute
Ohio Technical College
Pennsylvania College of Technology
SUNY Alfred
Wilson Tech Automotive Technology Adult Program

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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. Dark blue work shirt/work pants
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:

See chart, page 26

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

- Paint mixing, Color matching

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

Consider these classes at Tech

- Aircraft Technology
- Auto Maintenance*
- Auto Technology
- Marine & Motor Sports Technology
- Welding

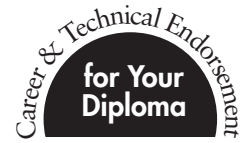
All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.



Automotive Technology

accredited by the National Automotive Technical Education Foundation (NATEF)



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 test equipment to precisely diagnose today's sophisticated automobiles. 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*

Lincoln Technical Institute
New England Institute of Technology
Ohio Technical College
Pennsylvania College of Technology
Suffolk County Community College
SUNY Alfred
SUNY Canton

SUNY Delhi

Universal Technical Institute

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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 and up.

Student Supplies (approx. \$75)

1. Dark 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:

See chart, page 26

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
- 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 Technology
- Auto Body Repair
- Auto Maintenance*
- Computer Networking & Repair/Technical Electronics
- Marine & Motor Sports 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*

Embry Riddle Aeronautical University
Dowling College
SUNY Farmingdale
Vaughn College of Aeronautics

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 41.

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 \$280)

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

Required for Sequence Credit

Career and Financial Management

Academic credits integrated:

See chart, page 26

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
- Aviation History

Consider these classes at Tech

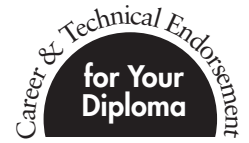
- Aircraft Technology
- Architectural Design/CAD
- Auto Technology
- Computer Networking & Repair/Technical Electronics

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



Marine & Motor Sports Technology

accredited by the Equipment & Engine Training Council (EETC) and Outdoor Power Equipment & Engine Service Association



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 & Motor Sports Technologies 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 41.

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:

See chart, page 26

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 Technology
- Auto Body Repair
- Auto Maintenance*
- Auto Technology
- Welding

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

*Smaller class size.