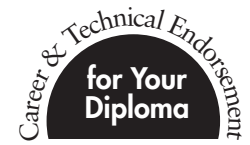




Drafting/Computer Aided (CAD)

accredited by the American Drafting Design Associates (ADDA)



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

Work Environment

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

Career Opportunities

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

Advanced Standing Available*

Art Institute of Pittsburgh
Delhi College
Island Drafting & Technical Institute

Pennsylvania College of Technology
Farmingdale State University of NY
SUNY Canton

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

Employment Outlook

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

Starting Weekly Salary:

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

Student Supplies:

There are no student-purchased supplies necessary.

Academic credits integrated:

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

CTE Endorsement

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

Course Outline

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

Consider these classes at Tech

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

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

*Smaller class size.