



Architectural and Interior Design/CAD

Curriculum Certified by American Design Drafting Association



ARCHITECTURAL AND INTERIOR DESIGN/CAD prepares students for entry-level positions in architectural firms and other related fields or to continue their education in post-secondary institutions. The course develops the basic skills necessary for both architecture and building construction. Methods for developing residential and commercial projects, as well as the proper techniques for the preparation of design presentation and construction drawings, will be taught. Detailed floor plans, foundation plans, building sections and elevations are covered in the coursework. In addition to obtaining the skills needed to understand Architecture and CAD, instruction also includes lessons about architectural history and “green” renewable technologies. Students will utilize computer aided drafting using the AUTODESK 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 AUTODESK software programs 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
HERS Rater
Construction Company Owner
Detailer
Engineer
Estimator
Expeditor
Interior Designer
Landscape Designer
Manufacturer's Representative
Project Manager
Salesperson
Specifications Writer

Student Supplies

No student-purchased supplies necessary.

Advanced Standing Available*

Five Towns College
Island Drafting & Technical Institute

New England Institute of Technology
SUNY Delhi

Dual Enrollment:

Farmingdale State College

*College credits may be earned by meeting the criteria of articulation agreements (see listing in Handbook) Tech has established with SELECT colleges. In addition, check directly with the post-secondary institutions for any additional credits they may offer.

Academic Credits integrated:

Tech Math, Tech Phys Sci., Eng 12, Art, CFM, Comp App

CTE Endorsement

Students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, be High School diploma eligible, and pass the following exam: Nat'l Occupational Competency Testing Exam (NOCTI) - Architectural Drafting.

Average Annual Wage

Salaries are subject to market fluctuations.

For the most current updates on local & national wages go to job search engines on the internet and www.careerzone.ny.gov

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
- Revit
- Sketch UP
- Interior Space Planning