A good career is built on a solid foundation!

Growth in the service industry has resulted in greater demand for skilled construction workers. Become familiar with the tools used in commercial construction as well as the materials used by builders, including lumber, concrete, drywall, roofing, fasteners and a wide variety of hardware. Over the course of a two-year program, students will tackle numerous hands-on projects, including full construction of a residential building. Qualifying students are eligible for one-year credit towards a four-year apprenticeship with the Empire State Regional Council of Carpenters Apprenticeship Program.

Advanced college/trade school credit is available to qualifying students from the following institutions:
COURSE TITLE: **CARPENTRY/RESIDENTIAL CONSTRUCTION AND HOME IMPROVEMENT**

**COURSE DESCRIPTION**
The carpentry program is a combination of hands-on skill development and technical training in order to prepare students for entry-level employment or higher in residential construction, home improvements and related fields. Students will actively build and/or renovate a three bedroom, Energy Star® rated ranch on-site using Brookhaven Town and Energy Star® building codes. Both renovation and alteration of existing residential structures are taught, and students evaluate their own work and keep an active portfolio as well as a notebook.

Students have the option of taking the National Center for Construction Education Research (NCCER) exam to be placed on the NCCER National Registry. The Registry provides valuable industry credentials for students as they seek employment and build their careers.

**COURSE CONTENT**
- Floor Framing and Sub Flooring
- Drywall and Interior Trim to Include Spackle and Tape (stilt work)
- Wall Framing
- Soffits and Fascias
- Roof Framing, Skylights
- Replacing Windows and Doors
- Sheathing, Siding and Roofing
- Scaffolds and Ladder Safety
- Re-Siding and Re-Roofing
- Door and Window Installation
- Building Trusses
- Building Trusses

**EDUCATIONAL OPPORTUNITIES**
- Advanced College Standing
- Articulation Agreement with Carpenter's Union
- Associate Degree/Construction
- Baccalaureate Degree/Architecture

**CAREER OPPORTUNITIES**
- Carpenter, Apprentice, Helper
- Framer
- Lumber Yard Person
- Exterior/Interior Trimmer
- Roofer
- Taper/Spackler
- Siding Mechanic
- Estimator
- Truss Fabricator
- Drywall Installer
- Dock Builder
- Landscaper/Carpenter
- Mill Person
- Home Improvement Contractor
- Flooring Installer

**SUGGESTED SUPPORTIVE COURSES**
- Algebra, Business, Mechanical Drawing, Technology

**ADDITIONAL INFORMATION**
- COSTS: Approximately $250 Personal Tools, Work Shoes/Work Jeans
- LENGTH OF COURSE: 2 years
- LOCATION: Gary D. Bixhorn Technical Center
- CTE/ACADEMIC CREDIT: 2 years = 1 credit ELA and 1 credit math
- (2 years = MAXIMUM 2 academic credits)
- INDUSTRY CERTIFICATION: National Center for Construction Education and Research (NCCER)
- National Registry