Design/Pre-Construction Career Pathway

What High School Courses Should I take?

Course selection always involves the student, school counselor and parent. Newtown High School courses listed below include specific skills for this pathway. This is not a mandatory listing, nor does it indicate the level of any course. It is provided to raise awareness of the wide variety of options available to NHS students.

Suggested Courses:

English: 4 years

Math: 4 years

Science: 4 years to include Physics

Social Studies: 4 years
World Language: 4 years
Technology Education:

- Drafting/Engineering Design 1 and 2
- Architectural Design 1 and 2

<u>Junior/Senior Project:</u> In this course, students work with a community professional to develop and present a project. Besides allowing students to determine their course content, it is an opportunity for students to learn time management skills prior to college. Sample projects include: "Art Inspiring Architecture" and "Sandy Hook Memorial."

NHS Programs/Activities:

<u>Career Center Programs</u> utilize community volunteers to provide career information to students. Programs include:

- Career Speakers: open to all students with permission of their teacher(s).
- Career Tours: open to sophomores, juniors, and seniors. An example would be Connecticut Construction Day.
- Career Shadowing: This program allows sophomores, juniors, and seniors one excused day per semester to spend time in a career field of their interest with a community volunteer.
- Internships: Junior and senior students spend 30 hours at a workplace to gain knowledge about a career. Internships occur outside of the school day and may be either paid or unpaid.

Current Community Volunteers include: Claris Construction and JK Architecture, LLC.

Related NHS Student Activities:

Math Team
3D Printer Club

Scholarship Opportunities Related to the Design/Pre-Construction Pathway:
Associated General Contractors of CT Scholarship
Newtown Cultural Arts Scholarship
CT Building Congress Scholarship

Weller - The Vincent Voccia Vocational Award

Weller Engineering

Professional Women in Construction Award

Careers

Architect

Building code Official

Building Designer

Civil Engineer

Code Official

Cost Estimator

Drafter

Electrical Engineer

Electronic Engineer

Environmental Designer

Environmental Engineer

Fire Prevention and Protection Engineer

Industrial Engineer

Interior Designer

Landscape Architect

Materials Engineer

Mechanical Engineer

Regional and Urban Planner/Designer

Safety Director

Specification Writer

Structural Engineer

Surveying and Mapping Technician

Sample Listing of Major(s)/Certificate Programs

Certificate: ACI Field Technician Certification, Certified Construction Manager,

Plumbing Certificate.

Associate Degree: Construction Management or Construction Technology

Bachelor Degree: Engineering and Construction Management, Civil Enginneering, or

Energy and Power Management **Master Degree:** Architecture

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