

## INTRODUCTORY COURSE FOR SOPHOMORES

Would you like to design, plan, and construct authentic projects in a student-centered class? If so, this one-semester introductory course to the field of construction for sophomores is for you! Students who take this class will also take a one semester, introductory course in either the Business, Health, Manufacturing or Transportation field. At the end of the sophomore year, students will then be prepared to select the particular technical area in which they will specialize.

The core curriculum of the Introductory Construction class prepares students to further their studies over the next two years in one of the following programs that relate to the construction industry: Architecture & Engineering Technologies, Construction Technologies, or Facility Maintenance.

This three-year sequence of study at Delaware Area Career Center begins with an introduction of broad-based, multi-craft skills. The core skill/knowledge units of study in the introductory course to the Construction Center are:

1. Basic Safety
2. Blueprints
3. Power Tools
4. Hand Tools
5. Construction Math
6. Communication Skills
7. Basic Rigging
8. Employability Skills

Sophomore students in the Construction Center will also construct models of buildings in TEAMS and be introduced to the Career Technical Student Organizations (CTSO).

Following this course, students will experience integrated training in the 11/12th grades where our instructors will use a team-teaching approach. The students' hands-on experiences within the Construction Center focus on: carpentry, electrical trades, welding, facilities maintenance, heating and air conditioning, plumbing basics and sheet metal basics for HVAC duct work. Several units of instruction involving computer-aided drafting (CAD) will enhance students' experience in the Construction Center.

As a result of this project-based learning, successful students will be prepared for any possible career pathway in the engineering/construction field.

*Prerequisite: A minimum of 3.75 credits at the end of 9th grade.*



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