



## What is the ACE Academy?

The Architecture, Construction, & Engineering (ACE) Academy is a school-within-a-school, built around the theme of construction with a mission to expose students to the wide spectrum of career choices within the industry. Classes are taught to rigorous academic standards that prepare high school graduates to transition seamlessly into either the workforce or post-secondary education, be it an apprenticeship program or a two- or four year college. Core academic classes, including English and math, are restructured to integrate with hands-on learning to show students the direct correlation between what they learn in school and a post-high school career in the construction industry.

### ACE Academy Objectives

\*Promote a partnership among the school, parents, and the construction industry.

\*Provide students with information about the wide range of opportunities in the construction industry and to prepare them for those careers.

\*Integrate core curriculum courses with industry classes.

\*Offer educational experiences with construction industry personnel through job shadowing, Youth Apprenticeship, field trips, and guest speakers.

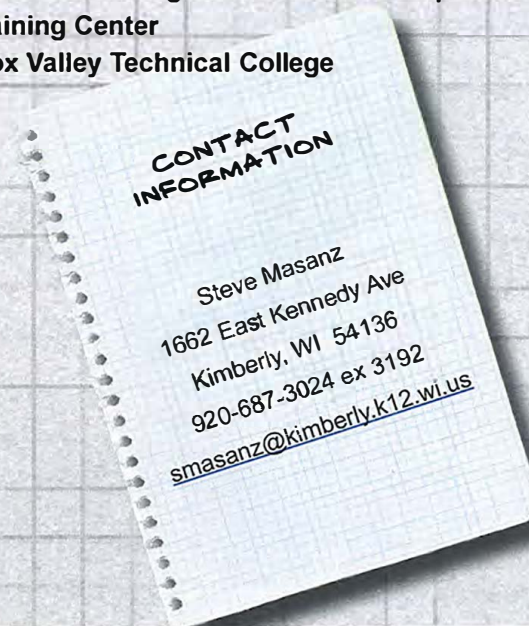
\*Act as a link between secondary and post-secondary education

As a partner with the school, the industry contributes supplies, leadership, and offers opportunities for job-shadowing, Youth Apprenticeship, field trips, and mentoring. The industry also works with educators to produce a curriculum that meets real-world demands for knowledge and skills. The ACE Academy can also serve as a pre-apprenticeship program, giving successful graduates a head start on a formal construction trades apprenticeship program.

### Industry Support

The following businesses and institutions have participated in the development of the ACE Academy and continue to provide their support.

- Associated General Contractors of WI
- The Boldt Company
- Hoffman INC.
- Miron Construction
- Faith Technologies
- Northeast Wisconsin Building and Construction Trades Council
- Northern WI Regional Council of Carpenters Training Center
- Fox Valley Technical College



# Architecture, Construction & Engineering Academy Student Planning Guide

## Eligibility

Grades 10-12  
Completed Registration Form  
Selection of a career path  
Architecture  
Construction  
Engineering

## Architecture Requirements

*Intro to ACE Academy*  
*ACE English*  
*ACE Math 2*  
*Architectural Design*  
*Building Construction 1*  
*Interior Design*  
*Physics or Conceptual Physics*  
*Job Shadow*  
*Youth Apprenticeship*

## Construction Requirements

*Intro to ACE Academy*  
*ACE English*  
*ACE Math 2*  
*Architectural Design*  
*Building Construction 1*  
*Building Construction 2*  
*CAD*  
*Job Shadow*  
*Youth Apprenticeship*

## Engineering Requirements

*Intro to ACE Academy*  
*ACE English*  
*ACE Math 2*  
*CAD*  
*Physics or Conceptual Physics*  
*Mechanical Design*  
*SMV*  
*Job Shadow*  
*Youth Apprenticeship*



In addition to the required classes in the three career paths listed above, students must also take two credits of the elective courses listed below.

**BUILDING CONSTRUCTION 1**

**BUILDING CONSTRUCTION 2**

**INTRO TO ELECTRICITY**

**PHYSICS OR CONCEPTUAL PHYSICS**

**LEADERSHIP**

**MARKETING 1**

**MARKETING 2**

**METALS 1**

**SMV**

**WELDING 1**

**WELDING 2**

**COMPUTER ART**

**ARCHITECTURAL DESIGN**

**INTERIOR DESIGN**

**PRINCIPLES OF MANAGEMENT**

**METALS 2**

