

Introduction to Architecture and Construction

Career Cluster	Architecture and Construction
Course Code	17006
Prerequisite(s)	None
Credit	.5 - 1
Program of Study and Sequence	Intro to Architecture and Construction is the recommended prerequisite for the three career pathways in Architecture and Construction: 1) Architectural Drafting Pathway 2) Cabinetry Pathway, and 3) Residential Construction Pathway
Student Organization	SkillsUSA
Coordinating Work-Based Learning	Tours, guest speakers, job shadowing
Industry Certifications	None
Dual Credit or Dual Enrollment	None
Teacher Certification	Architecture & Construction Cluster Endorsement; Building Trades Endorsement;
Resources	None

Course Description:

This course will prepare students to delve into the architecture and construction industry. It covers all three construction career pathways offered, including architecture/drafting along with cabinetry and building construction. Students will explore many different topics where they will be able to complete hands on activities to enhance the learning process.

Program of Study Application

Intro to Architecture and Construction is the recommended prerequisite for the three career pathways in Architecture and Construction:

- Architectural Drafting Pathway

- Cabinetry Pathway
- Residential Construction Pathway

Course Standards

Indicator# IAC 1 Explore the different career opportunities involved in the architecture and construction industries.

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
Two Apply	IAC 1.1 Compare career possibilities in the drafting industry.	
Two Apply	IAC 1.3 Research career opportunities in the architecture and construction fields.	

Indicator# IAC 2 Introduce safety concepts in the architecture and construction industries.

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
Two Apply	IAC 2.1 Apply general shop safety principles	
One Identify	IAC 2.2 Identify job site and career safety concepts	
One Define	IAC 2.3 Define OSHA (Occupational Safety Health Administration) and its role in the construction industries	
Two Apply	IAC 2.4 Apply general hand and power tool safety procedures	

Indicator# IAC 3 Apply basic math principles used in the architecture and construction industries.

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
Two	IAC 3.1 Demonstrate proper use of appropriate math skills	

Demonstrate		
Two Demonstrate	IAC 3.2 Demonstrate proper measuring and layout skills	

Indicator# IAC 4 Recognize the materials used in the architecture and construction industries.

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
One Identify	IAC 4.1 Identify wood species and engineered building materials.	
One Recognize	IAC 4.2 Recognize proper application of fasteners, adhesives, and hardware.	
One Explore	IAC 4.3 Explore new upcoming materials used in building industry.	

Indicator# IAC 5 Examine Basic drafting skills used in architecture and construction.

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
One Recognize	IAC 5.1 Recognize basic drafting terms and abbreviations	
Two Differentiate	IAC 5.2 Differentiate between different drafting styles	
Two Demonstrate	IAC 5.3 Identify different aspects of blueprints/project plans to show a working knowledge of specifications.	
Two Classify	IAC 5.4 Classify the different styles of residential architectural structures	

Indicator# IAC 6 Display skills needed in architecture and construction industries.

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<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
Two Apply	IAC6.1 Apply proper measuring and cutting techniques to perform job related tasks	
Two Display	IAC 6.2 Display a working knowledge of tools and equipment used in the industry	
Two Construct	IAC 6.3 Construct a project using the assigned design process	
Two Demonstrate	IAC 6.4 Demonstrate necessary job skills needed in architecture and construction industries	