



**What Is the Architecture and Construction Career Cluster?**

This diverse Career Cluster prepares learners for careers in designing, planning, managing, building and maintaining the built environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs.

**Possible/Related Careers for the Architecture and Construction Career Cluster**

There are over 70 careers related to the Architecture and Construction Career Cluster, including but not limited to the following examples:

- Architect
- Building Inspector
- Carpenter
- Civil Engineer
- Construction Manager
- Drafter
- GIS Specialist
- HVAC Tech
- Landscape Architect
- Plumber
- Solar Energy Tech
- Welder

**Possible/Related Majors for the Architecture and Construction Career Cluster**

There are an increasing number of college majors related to the Architecture and Construction Career Cluster, and among the most common are:

- Architecture
- Building Construction Technology
- Civil Engineering
- Construction Management
- Drafting & Design Technology
- Environmental Engineering
- Mechanical Drafting CAD
- Survey Technology
- Various Union Apprenticeships

**Related OLCCHS Co-Curricular Activities for the Architecture and Construction Career Cluster**

OLCHS students are encouraged to participate in co-curricular activities. Some related to the Architecture and Construction Career Cluster are:

- Drama Crew
- STEM Club

**Related Service Learning Sites for the Architecture and Construction Career Cluster**

OLCHS students are required to earn service learning hours in order to graduate. Some volunteer sites related to the Architecture and Construction Career Cluster are:

Name	Location
The Center Children’s Farm	12700 Southwest Highway, Palos Park
Cook County Forest Preserve	Various sites available
Cross Countries	OLCHS-based group
Habitat for Humanity	Various sites available
Lake Katherine Nature Preserve	7402 Lake Katherine Drive, Palos Heights
Little Red Schoolhouse	9800 South 104th Ave., Willow Springs
The Village of Oak Lawn Forestry Department & Green Team	Village Hall, 9440 S. Raymond Ave., Oak Lawn

## **Aligned Elective Courses for the Architecture and Construction Career Cluster**

Although required courses align with all 16 Career Clusters, students *must* take these courses in order to graduate from OLCHS. Therefore they are not included below.

Students are encouraged to customize their 4-year plan with specific courses, related prerequisite courses and related career information on Career Cruising.

*This guide is intended to provide general information related to career interest areas. It does not imply any guaranteed acceptance into a program of study. Students and families should carefully review post-secondary goals and entrance requirements for all post-secondary institutions of interest. Students and families are encouraged to use this as a supplemental guide during their planning.*

<b>Department and Elective Courses</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>Art</b>				
Intro to Drawing and Digital Art	X	X	X	X
Sketching & Drawing		X	X	X
Clay Construction and Clay Construction II		X	X	X
AP Studio Art*				X
<b>Business</b>				
Entrepreneurship	X	X	X	X
Google It	X	X	X	X
Microsoft Office Applications	X	X	X	X
Accounting 1 or 1H*		X	X	X
Accounting 2			X	X
<b>Foreign Language</b>				
French or French Honors	X	X	X	X
Spanish or Spanish Honors	X	X	X	X
Spanish for Heritage Speakers	X	X	X	X
<b>Industrial Technology</b>				
Electricity & Electronics I*	X	X	X	X
Electricity & Electronics II*	X	X	X	X
PLTW: Introduction to Engineering Design*	X	X	X	X
Woods 1	X	X	X	X
Woods 2	X	X	X	X
PLTW: Principles of Engineering*		X	X	X
PLTW: Engineering Design & Development*			X	X
Advanced Woodworking			X	X
Independent Studies: Woods				X
<b>Math</b>				
Transition to College Math				X
Pre-Calculus				X
Pre-Calculus Honors				X
AP Statistics*				X
AP Calculus*				X
<b>Science</b>				
Advanced Chemistry			X	X
Environmental Science			X	X
Advanced Physics				X
AP Physics C: Mechanics*				X
<b>Social Science</b>				
Geography	X	X	X	X
AP Human Geography	X	X	X	X
Economics			X	X
History of Chicago			X	X
AP Microeconomics*			X	X
AP Macroeconomics*			X	X

\*The Federal Career Clusters framework recommends students enroll in Advanced Placement and/or Dual Credit courses when available and relevant.