



Architecture & Construction Career Pathway

<Name of Region>

2023-2026



EXPLORE: Click on the the job title links that seem most interesting to you to learn more about! Save any jobs you are interested in from this career pathway in your XELLO account so that you can create an Academic and Career Plan (ACP) later on. *Note: In the Architecture and Construction Industry, experience can be equally as important as a degree! Many entry level general laborer positions are available in residential, commercial, road building, and industrial settings.*

Educational Level May also require work experience	Design/Pre-Construction	General Construction/Skilled Trades	Post-Construction/Maintenance/Operation
High School Diploma, Certification	Landscape ○ Sales Representative ○ Range \$ xxx,xxx-xxx,xxx	Construction Laborer * ○ Range \$ xxx,xxx-xxx,xxx	Hazardous Materials Removal Workers ○ Range \$ xxx,xxx-xxx,xxx
Registered Apprenticeship (Earn While You Learn)	Bricklayer ○ Carpenter * ○ Concrete Finisher and Cement Mason * ○ Construction Craft Laborer * ○ Construction Electrician * ○ Environmental Systems Technician and HVAC Installer-Technician ○ Glazier ○ Heat and Frost Insulator Heavy Equipment Operator and Operating Engineer ○ Ironworker ○ Painter and Decorator ○ Plasterer ○ Plumber * ○ Residential Wirer Roofer and Waterproofor ○ Sheet Metal ○ Sprinkler Fitter ○ Steamfitter ○ Taper and Finisher Tile Setter ○ Range \$xxx,xxx-xxx,xxx		
Certification or Technical Diploma	Drafting Design Technician Range \$xxx,xxx-xxx,xxx	Cabinet Maker ○ Boiler Operator ○ Rough or Finish Carpenter * ○ Construction Foreman ○ Solar Installer Range \$xxx,xxx-xxx,xxx	Appliance Technician ○ Account Clerk ○ Computer Technician ○ Range \$xxx,xxx-xxx,xxx
Associate Degree	Civil Engineering Technician ○ Surveyor ○ Interior Designer ○ Cost Estimator ○ Range \$xxx,xxx-xxx,xxx	Project Manager ○ Range \$xxx,xxx-xxx	Landscape Supervisor Computer Network Technician ○ Construction/Building Inspector ○ Range \$xxx,xxx-xxx,xxx
Bachelor Degree and Beyond	Architect ○ Civil Engineer ○ Landscape Architect ○ Urban and Regional Planner ○ Range \$xxx,xxx-xxx,xxx	Engineering Manager Safety Manager Company Owner ○ Construction Manager ○ Range \$xxx,xxx-xxx,xxx	Facilities Manager Accountant ○ Mechanical Engineer ○ Electrical Engineer ○ Range \$xxx,xxx-xxx,xxx
Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options

* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!
 ○ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)



Architecture & Construction Career Pathway In High School



A career pathway in high school must include:

- A sequence of courses (including at least 2 CTE courses)
- Two of the following components: *Career and Technical Student Organization, Work-based Learning, Industry Recognized Credential, College Credit Opportunity*

Career and Technical Education Courses	Must include a sequence of at least TWO Career and Technical Education courses. Should align with the curriculum standards for the pathway: <ul style="list-style-type: none"> • • 	Career Pathway Exploration Opportunities State: <ul style="list-style-type: none"> • Focus on Energy Career Exploration & Resources Regional: <ul style="list-style-type: none"> • • Local: <ul style="list-style-type: none"> •
Additional Employer Recommended Courses	Should align with the appropriate standards for the course for this pathway: <ul style="list-style-type: none"> • • 	
Career and Technical Student Organization	SkillsUSA	
Work-Based Learning Program Options	<ul style="list-style-type: none"> • Employability Skills (90 hrs) • State Skill Standards Co-Op-Construction (480 hrs/1 year) • Youth Apprenticeship- Architecture and Construction (450 hrs/year; 1-2 years) • Local Work-based Learning Programs that meet state quality requirements 	

	Design/ Pre-Construction	General Construction/ Skilled Trades	Post-Construction/ Maintenance/Operation
Industry Recognized Credential Options Learn the skills that employers want to see!	OSHA 10	First Aid/CPR	Seal of Biliteracy (DPI) Certificate of Global Competence (DPI)
<i>Italics = must be 18 years old to obtain Employment of Minors Laws: Manufacturing and Construction Equipment</i>	Autodesk Certified User <ul style="list-style-type: none"> • Autodesk AutoCAD* • Autodesk Inventor- Imperial or Metric* • Autodesk REVIT- Imperial or Metric* • Autodesk Maya* • Autodesk 3dsMax* • Autodesk Fusion 360 	American Welding Society (AWS) (Level I SENSE/Entry Welder)* Wisconsin Department of Motor Vehicles: Commercial Driver License (CDL)* National Center for Construction Education & Research (NCCER): ANY Specialty, including Core Curriculum* North American Building Trades Council (NABTU): Multi-Craft Core Curriculum (MC3)* North American Technician Excellence (NATE): HVAC Support Technician* OSHA Forklift Certification	OSHA Aerial and Scissor Lift Training Snap-On: Precision Measurement Instruments (PMI)* Or any TWO other certifications* SolidWorks: Certified SolidWorks Associate (CSWA)-Academic* Certified SolidWorks Professional (CSWP)* International Carpenters Training Fund: Career Connections – Level 3 Certificate* Woodwork Career Alliance: Sawblade*
This certification is eligible for reimbursement through the technical incentive grant	Building Information Modeling/Virtual Construction Manager	OSHA Aerial and Scissor Lift Training Snap-On: Precision Measurement Instruments (PMI) Or any TWO other certifications* SolidWorks: Certified SolidWorks Associate (CSWA)-Academic* Certified SolidWorks Professional (CSWP)* International Carpenters Training Fund: Career Connections – Level 3 Certificate* Woodwork Career Alliance: Sawblade* HVAC Excellence: ANY Employment Ready Certification* Certification of Crane Operators Solar Installer Certification	
College Credit Opportunities	You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE .		

Add your district logo here!

Architecture and Construction Career Pathway at <Name of High School>



Your Academic and Career Plan (ACP) for this career pathway starts here...

Use this page to figure out which classes and activities you will take to prepare for this career pathway. Record your plan in XELLO.

Career and Technical Education Courses	<ul style="list-style-type: none"> • CTE Course #1 • CTE Course #2 	Start creating your professional network through CAREER EXPLORATION OPPORTUNITIES. Record your experiences in XELLO.	
Other Recommended Courses	<ul style="list-style-type: none"> • Course #1 • Course #2 	State: <ul style="list-style-type: none"> • Program Name/link #1 • Program Name/link #2 Regional: <ul style="list-style-type: none"> • Program Name/link #1 • Program Name/link #2 Local: <ul style="list-style-type: none"> • Program Name/link #1 • Program Name/link #2 	
Career and Technical Student Organization	<ul style="list-style-type: none"> • Name of CTSO 		
Work-Based Learning Options	<ul style="list-style-type: none"> • WBL Option #1 • WBL Option #2 		
Industry Recognized Credential Options Learn the skills that employers want to see! <i>Italics = must be 18 years old to obtain</i> Employment of Minors Laws: Manufacturing and Construction Equipment <i>*This certification is eligible for reimbursement through the technical incentive grant</i>	Design Pre-Construction	General Construction Skilled Trades	Post-Construction/Maintenance/Operation
	IRC Name/link #1 IRC Name/link #2		
	IRC Name/link #1 IRC Name/link #2 IRC Name/link #3 IRC Name/link #4	IRC Name/link #1 IRC Name/link #2 IRC Name/link #3 IRC Name/link #4	IRC Name/link #1 IRC Name/link #2 IRC Name/link #3 IRC Name/link #4
College Credit Opportunities	College Courses Offered at Your High School		
	Transcripted Credit <ul style="list-style-type: none"> • Name of HS Course #1, IHE granting credit • Name of HS Course #2, IHE granting credit 	AP and/or IB Courses Name of AP/IB Course #1 - Score, College, Course - Score, College, Course	Name of AP/IB Course #2 - Score, College, Course - Score, College, Course
	College Courses You Can Take at a College Campus		
	Application Deadlines:		
	October 1st: Spring Courses	February 1st: Summer Courses (ECCP only)	March 1st: Fall Courses
Start College Now <ul style="list-style-type: none"> • Name of College #1, College Course #1 • Name of College #2, College Course #1 	Early College Credit Program <ul style="list-style-type: none"> - Name of College #1, College Course #1 - Name of College #2, College Course #1 - Name of College #1, College Course #2 - Name of College #2, College Course #2 		