



# Architecture & Construction Career Pathway

## MadREP Region

### 2021-2022



**EXPLORE:** Click on the links to learn more about the job titles under each industry subsector that seem most interesting to you!  
Save any jobs you are interested in to your XELLO account so that you can create an Academic and Career Plan (ACP).

<b>Educational Level</b> May also require work experience	<b>Design/Pre-Construction</b>	<b>General Construction/Skilled Trades</b> In the Construction Industry, experience is equally as important as a degree!
<b>High School Diploma or Certification</b>	Many entry level general laborer positions are available in both residential and commercial, as well as road building, and industrial settings. <ul style="list-style-type: none"> <li>• <a href="#">Carpenter Helper</a>★○</li> <li>• <a href="#">Construction Laborer</a>★○</li> <li>• <a href="#">Material Handler</a>★</li> <li>• <a href="#">Pre-Apprentice</a>★</li> <li>• <a href="#">Supplier Sales</a>○</li> <li>• <a href="#">Floor Finisher</a>★○</li> <li>• <a href="#">Construction Carpenter</a>★○</li> <li>• <a href="#">Painter</a>○</li> <li>• <a href="#">Roofer</a>○</li> <li>• <a href="#">Woodworking Machine Operator</a></li> </ul> <p style="text-align: center;">Range \$ 22,940-\$84,860</p>	
<b>Certification or Technical Diploma</b>	<ul style="list-style-type: none"> <li>• <a href="#">Appliance Technician</a>★○</li> <li>• <a href="#">Civil Engineering (CAD) Technician</a>○</li> <li>• <a href="#">Energy Auditor</a></li> <li>• <a href="#">HVAC Service Technician</a>★○</li> <li>• <a href="#">Landscape Technician</a>★○</li> <li>• <a href="#">Retail/Design Consultant</a></li> </ul> <p style="text-align: center;">Range \$23,570-\$62,870</p>	<ul style="list-style-type: none"> <li>• <a href="#">Boiler Operator</a></li> <li>• <a href="#">Bricklayer</a>★○</li> <li>• <a href="#">Cabinet Maker</a>★○</li> <li>• <a href="#">Low Voltage Technician/Electrician</a></li> <li>• <a href="#">Rough Carpenter</a>★○</li> <li>• <a href="#">Tile Setter</a>★○</li> </ul> <p style="text-align: center;">Range \$26,220-\$65,160</p>
<b>Registered Apprenticeship</b> <i>"Learn and Earn"</i>	<ul style="list-style-type: none"> <li>• <a href="#">Boilermaker</a>○</li> <li>• <a href="#">Carpenter</a>★○</li> <li>• <a href="#">Concrete Finisher</a>★</li> <li>• <a href="#">Crew Leader/Foreman</a>★</li> <li>• <a href="#">Electrician</a>★○</li> <li>• <a href="#">Iron Worker</a>★○</li> <li>• <a href="#">Operating Engineer</a>★</li> <li>• <a href="#">Pipefitter</a>★○</li> <li>• <a href="#">Plumber</a>★○</li> <li>• <a href="#">Sheet Metal Worker</a>○</li> <li>• <a href="#">Steamfitter</a>★○</li> <li>• <a href="#">Telecommunications Installer</a></li> </ul> <p style="text-align: center;">Range \$34,750-\$80,180</p>	
<b>Associate Degree or Equivalent Experience</b>	<ul style="list-style-type: none"> <li>• <a href="#">Architectural Design/Drafting Technician</a>○</li> <li>• <a href="#">Architectural Rendering/Animation</a></li> <li>• <a href="#">BIM/Revit Technician</a></li> <li>• <a href="#">Interior Designer</a>○</li> <li>• <a href="#">Surveyor</a>○</li> </ul> <p style="text-align: center;">Range \$27,290-\$73,830</p>	<ul style="list-style-type: none"> <li>• <a href="#">Assistant Construction Manager</a>★</li> <li>• <a href="#">Building Inspector</a>★○</li> <li>• <a href="#">Construction Foreman</a>★</li> <li>• <a href="#">Facility Manager</a>★</li> <li>• <a href="#">Sales Representative</a>○</li> </ul> <p style="text-align: center;">Range \$45,730-\$148,160</p>
<b>Bachelor Degree and beyond</b>	<ul style="list-style-type: none"> <li>• <a href="#">Architect</a>○</li> <li>• <a href="#">Architectural Designer</a></li> <li>• <a href="#">BIM Manager</a></li> <li>• <a href="#">Structural Engineer</a>○</li> <li>• <a href="#">Landscape Architect</a>○</li> </ul> <p style="text-align: center;">Range \$43,960-\$150,920</p>	<ul style="list-style-type: none"> <li>• <a href="#">Construction Manager</a>★○</li> <li>• <a href="#">Cost Estimator</a>★○</li> <li>• <a href="#">Project Engineer/Manager</a>★</li> <li>• <a href="#">Safety Manager</a>★</li> <li>• <a href="#">Superintendent</a>★</li> </ul> <p style="text-align: center;">Range \$42,020-\$150,920</p>
<b>Postsecondary Options</b>	Click <a href="#">HERE</a> for Postsecondary Options	Click <a href="#">HERE</a> for Postsecondary Options

*Entrepreneurship is also a viable alternative at all levels for those who wish to use their skills to start a business.*

★ **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, College Credit Opportunity, Industry Recognized Credential*

<b>Career &amp; Technical Education Courses</b>	Must include a sequence of at least TWO Career and Technical Education courses. Should align with <a href="#">Education Building Blocks</a> for the pathway: <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>		<b>Career Exploration Programs</b>  State: <ul style="list-style-type: none"> <li>• <a href="#">Class speaker: WI Sheet Metal &amp; Steamfitters</a></li> <li>• <a href="#">Videos/Speaker: www.BuildYourCareerWI.org</a></li> <li>• <a href="#">We Build Wisconsin</a></li> </ul> Regional: <ul style="list-style-type: none"> <li>• <a href="#">Big Step (WRTP) Summer Construction Academy</a></li> <li>• <a href="#">Inspire Madison Region (Profiles &amp; Career Development Activities)</a></li> <li>• <a href="#">Madison College Career Discovery Camps</a></li> <li>• <a href="#">UW Madison Engineering Outreach Programs</a></li> <li>• <a href="#">UW-Madison Engineering Summer Program</a></li> <li>• <a href="#">Badger Pre-College Online</a></li> <li>• <a href="#">UW Platteville Youth Programs</a></li> <li>• <a href="#">Urban League Youth Programs</a></li> <li>• <a href="#">Hip Hop Architecture Camp</a></li> <li>• <a href="#">Future Quest</a></li> </ul> Local:
<b>Relevant Academic Courses</b>	Should align with <a href="#">Education Building Blocks</a> for this pathway: <ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>		
<b>Career &amp; Technical Student Organization</b>	<ul style="list-style-type: none"> <li>• <a href="#">Skills USA</a></li> </ul>		
<b>Work-Based Learning Program Options</b>	<ul style="list-style-type: none"> <li>• <a href="#">Employability Skills</a> (90 hours)</li> <li>• <a href="#">State Skill Standards Co-Op-Construction</a> (480 hours/1 year)</li> <li>• <a href="#">Youth Apprenticeship- Architecture &amp; Construction</a> (450 hours/year; 1-2 years)</li> <li>• Local Work-based Learning Programs that meet <a href="#">state quality requirements</a></li> </ul>		
<b>College Credit Opportunities</b>	You can find the list of college credit opportunities included in the postsecondary options for this pathway <a href="#">HERE</a> .		
<b>Industry Recognized Credential Options</b>  Learn the skills that employers want to see!  <i>Italics = must be 18 years old to obtain</i>  <i>*This certification is eligible for district reimbursement through the technical incentive grant</i>	<b>Design Pre-Construction</b>	<b>General Construction Skilled Trades</b>	
	<ul style="list-style-type: none"> <li>• <a href="#">OSHA 10</a></li> <li>• <a href="#">Wisconsin Drivers License</a></li> <li>• <a href="#">North American Technician Excellence (NATE): HVAC Support Technician*</a></li> <li>• <a href="#">Multi-Craft Core Curriculum</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">OSHA 10</a></li> <li>• <a href="#">Wisconsin Drivers License</a></li> <li>• <a href="#">National Center for Construction Education &amp; Research (NCCER)*</a></li> <li>• <a href="#">Career Connections/Level 3*</a></li> <li>• <a href="#">Woodwork Career Alliance: Sawblade*</a></li> </ul>	