



# Architecture & Construction Career Pathway

## NEW North 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	<a href="#">Landscaper</a> <input type="radio"/> <a href="#">Sales Representative</a> <input type="radio"/> Range \$ 30,500-91,500	<a href="#">Construction Laborer</a> * <input type="radio"/> Range \$ 29,700-72,430	<a href="#">Hazardous Materials Removal Workers</a> <input type="radio"/> Range \$ 32,900-81,100
Registered Apprenticeship (Earn While You Learn)	<a href="#">Bricklayer</a> <input type="radio"/> <a href="#">Carpenter</a> * <input type="radio"/> <a href="#">Concrete Finisher and Cement Mason</a> * <input type="radio"/> <a href="#">Construction Craft Laborer</a> * <input type="radio"/> <a href="#">Construction Electrician</a> * <input type="radio"/> <a href="#">Environmental Systems Technician and HVAC Installer-Technician</a> <input type="radio"/> <a href="#">Glazier</a> <input type="radio"/> <a href="#">Heat and Frost Insulator</a> <a href="#">Heavy Equipment Operator and Operating Engineer</a> <input type="radio"/> <a href="#">Ironworker</a> <input type="radio"/> <a href="#">Painter and Decorator</a> <input type="radio"/> <a href="#">Plasterer</a> <input type="radio"/> <a href="#">Plumber</a> * <input type="radio"/> <a href="#">Residential Wirer</a> <a href="#">Roofer and Waterproofer</a> <input type="radio"/> <a href="#">Sheet Metal</a> <input type="radio"/> <a href="#">Sprinkler Fitter</a> <input type="radio"/> <a href="#">Steamfitter</a> <input type="radio"/> <a href="#">Taper and Finisher</a> <a href="#">Tile Setter</a> <input type="radio"/> Range \$43,300-82,500		
Certification or Technical Diploma	<a href="#">Drafting Design Technician</a> Range \$37,800-86,200	<a href="#">Cabinet Maker</a> <input type="radio"/> <a href="#">Boiler Operator</a> <input type="radio"/> <a href="#">Rough or Finish Carpenter</a> * <input type="radio"/> <a href="#">Construction Foreman</a> <input type="radio"/> <a href="#">Solar Installer</a> Range \$38,200-95,300	<a href="#">Appliance Technician</a> <input type="radio"/> <a href="#">Account Clerk</a> <input type="radio"/> <a href="#">Computer Technician</a> <input type="radio"/> Range \$32,300-76,100
Associate Degree	<a href="#">Civil Engineering Technician</a> <input type="radio"/> <a href="#">Surveyor</a> <input type="radio"/> <a href="#">Interior Designer</a> <input type="radio"/> <a href="#">Cost Estimator</a> <input type="radio"/> Range \$38,800-103,700	<a href="#">Project Manager</a> <input type="radio"/> Range \$56,700-135,300	<a href="#">Landscape Supervisor</a> <a href="#">Computer Network Technician</a> <input type="radio"/> <a href="#">Construction/Building Inspector</a> <input type="radio"/> Range \$39,800-99,900
Bachelor Degree and Beyond	<a href="#">Architect</a> <input type="radio"/> <a href="#">Civil Engineer</a> <input type="radio"/> <a href="#">Landscape Architect</a> <input type="radio"/> <a href="#">Urban and Regional Planner</a> <input type="radio"/> Range \$51,300-129,600	<a href="#">Engineering Manager</a> <a href="#">Safety Manager</a> <a href="#">Company Owner</a> <input type="radio"/> <a href="#">Construction Manager</a> <input type="radio"/> Range \$68,800-177,300	<a href="#">Facilities Manager</a> <a href="#">Accountant</a> <input type="radio"/> <a href="#">Mechanical Engineer</a> <input type="radio"/> <a href="#">Electrical Engineer</a> <input type="radio"/> Range \$58,800-153,750
Postsecondary Options	Click <a href="#">HERE</a> for Postsecondary Options	Click <a href="#">HERE</a> for Postsecondary Options	Click <a href="#">HERE</a> 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	<p><b>Must include a sequence of at least TWO Career and Technical Education courses. Should align with the curriculum standards for the pathway:</b></p> <ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>	<p><b>Career Pathway Exploration Opportunities</b></p> <p><b>State:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Focus on Energy Career Exploration &amp; Resources</a></li> </ul> <p><b>Regional:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Inspire WI</a></li> <li>• <a href="#">Building Trades Expo</a></li> </ul> <p><b>Local:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul>
Additional Employer Recommended Courses	<p><b>Should align with the appropriate standards for the course for this pathway:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Math including any courses on measurement</a></li> <li>• <a href="#">Business courses including accounting</a></li> </ul>	
Career and Technical Student Organization	<p><a href="#">Skills USA</a></p>	
Work-Based Learning Program Options	<ul style="list-style-type: none"> <li>• <a href="#">Employability Skills (90 hrs)</a></li> <li>• <a href="#">State Skill Standards Co-Op-Construction (480 hrs/1 year)</a></li> <li>• <a href="#">Youth Apprenticeship- Architecture and Construction (450 hrs/year; 1-2 years)</a></li> <li>• <a href="#">Local Work-based Learning Programs that meet state quality requirements</a></li> </ul>	

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

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.

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