



Architecture & Construction Career Pathway

7 Rivers 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 \$ 25,000-\$54,580 | Construction Laborer *○ Range \$ 30,470-\$62,480 | Hazardous Materials Removal Workers ○ Range \$ 30,340-\$56,160 |
| 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 Waterproofer ○ Sheet Metal ○ Sprinkler Fitter ○ Steamfitter ○ Taper and Finisher Tile Setter ○ Range \$49,628-\$83,137+ | | |
| Certification or Technical Diploma | Drafting Design Technician Range \$38,260-\$78,370 | Cabinet Maker ○ Boiler Operator ○ Rough or Finish Carpenter *○ Construction Foreman ○ Solar Installer Range \$49,628-\$100,188 | Appliance Technician ○ Account Clerk ○ Computer Technician ○ Range \$39,230-\$54,000 |
| Associate Degree | Civil Engineering Technician ○ Surveyor ○ Interior Designer ○ Cost Estimator ○ Range \$35,800-\$73,680 | Project Manager ○ Range \$75,700-\$138,280+ | Landscape Supervisor Computer Network Technician ○ Construction/Building Inspector ○ Range \$27,330-\$78,600 |
| Bachelor Degree and Beyond | Architect ○ Civil Engineer ○ Landscape Architect ○ Urban and Regional Planner ○ Range \$37,500-\$168,250+ | Engineering Manager Safety Manager Company Owner ○ Construction Manager ○ Range \$55,500-\$168,241+ | Facilities Manager Accountant ○ Mechanical Engineer ○ Electrical Engineer ○ Range \$48,670-\$128,020+ |
| 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 7 Rivers



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*

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|---|---|--|---|---|
| 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: • • | Career Pathway Exploration Opportunities | | |
| Additional Employer Recommended Courses | Should align with the appropriate standards for the course for this pathway: • • | | | |
| 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! <i>Italics = must be 18 years old to obtain</i> <i>Employment of Minors Laws: Manufacturing and Construction Equipment</i> <i>*This certification is eligible for reimbursement through the technical incentive grant</i> | <p style="text-align: center;">OSHA 10</p> <p>Autodesk Certified User</p> <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 <p>Building Information Modeling/Virtual Construction Manager</p> | <p style="text-align: center;">First Aid/CPR</p> <p style="text-align: center;">Seal of Bilingualty (DPI)</p> <p style="text-align: center;">American Welding Society (AWS) (Level I SENSE/Entry Welder)*</p> <p style="text-align: center;">Wisconsin Department of Motor Vehicles: Commercial Driver License (CDL)*</p> <p style="text-align: center;">National Center for Construction Education & Research (NCCER): ANY Specialty, including Core Curriculum*</p> <p style="text-align: center;">North American Building Trades Council (NABTU): Multi-Craft Core Curriculum (MC3)*</p> <p style="text-align: center;">North American Technician Excellence (NATE): HVAC Support Technician* OSHA Forklift Certification</p> <p style="text-align: center;">OSHA Aerial and Scissor Lift Training Snap-On: Precision Measurement Instruments (PMI)* Or any TWO other certifications</p> <p style="text-align: center;">-</p> <p style="text-align: center;">SolidWorks: Certified SolidWorks Associate (CSWA)-Academic* Certified SolidWorks Professional (CSWP)*</p> <p style="text-align: center;">International Carpenters Training Fund: Career Connections – Level 3 Certificate* Woodwork Career Alliance: Sawblade*</p> <p style="text-align: center;">HVAC Excellence: ANY Employment Ready Certification* Certification of Crane Operators Solar Installer Certification</p> | <p style="text-align: center;">Certificate of Global Competence (DPI)</p> | |
| 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 - 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 | | |