

			 Southwestern Illinois Partnership for College and Career Success			Pathway: Construction Program of Study: Construction Ironworker				
<i>This Career Pathway Plan of Study should serve as a guide, along with other career planning materials, as learners continue on a career path. Career Goal: The Construction Ironworker Program embraces the collective mission to fulfill the needs of the construction industry by preparing graduates with the skills and experience necessary to enter a variety of construction fields at an apprentice level set forth by industry.</i>										
EDUCATION LEVELS	GRADE	English	Math	Science	Social Studies/ Sciences	Other Required Courses or Recommended Electives	Career & Technical Courses and/or Degree Major Courses	Employment Opportunities in Construction Bricklaying	Access the Construction Ironworker Program at SWIC.edu	
SECONDARY	Cluster Overview: Preparing high school students for employment in a career pathway in Construction Bricklaying.									
	9	English I Writing Language Arts	Algebra I or Pre-Algebra	Biology I or Earth Science or Physical Science	Geography or World History	Driver's ED* or Health* or P.E.	Intro to Manufacturing or Intro to Metals or Intro to Technology or Intro to Welding or Intro to Engineering	Career Options: Ironworker, fabricator, welder, boilermaker, construction laborer. Career Learning Experiences: • Apprenticeship • Internship • Job shadowing • Part-time job • Any work experience	For further information about the SWIC Construction Ironworker Program visit: SWIC.edu • Take placement testing at SWIC in March/April of junior year. Bachelor's Degrees: To be developed Service Learning Experiences: • Boy Scouts of America • Girl Scouts of the USA • Community Service Volunteer • Peer Tutoring or Mentoring • Any school-sponsored activity or organization	
	10	English II Writing Language Arts	Geometry or Algebra I	Chemistry or Biology I	U.S. Government* or Consumer Ed*	Driver's ED* or Health* or P.E. or Music or Foreign Language	Intro to Manufacturing or Intro to Metals or Intro to Technology or Intro to Welding or Intro to Engineering			
	11	English III Writing Language Arts	Algebra II or Geometry	Chemistry or Biology I	U.S. History	P.E. or Music or Foreign Language	11th & 12th Grade Course Work • **Automotive Mechanics • **Construction Trades • **Drafting and Design • **Electrical/Electronics • Engineering Technology • Interrelated Cooperative Education • **Manufacturing Technology • **Precision Metalworking • **Precision Production Trades • **Welding			
	College Credit Opportunities in High School: Students should take advantage of dual-credit courses offered by Southwestern Illinois College.									
	12	**English IV COMP/Research* **Speech/Oral Communication*	Pre-Calculus or Trigonometry	Biology I or Earth Science or Physical Science	Sociology* or **Psychology*	P.E. or Music or Foreign Language				
Successfully completed dual credit/enrollment courses do not have to be repeated at post secondary level.										
POSTSECONDARY	Refer to: swic.edu for Construction Ironworker program requirements							Curricular Experiences: • Skills USA • Auto Clubs Extracurricular Learning Experiences: • Student Government • School Newspaper • School Yearbook • Science Club • FFA • Any school-sponsored activity or organization		

* One Semester

**Dual Credit/Dual Enrollment opportunities- students must meet college requirements to enroll.

2/23/2026