


HIGH SCHOOL: Jefferson High School	BIG SKY PATHWAY PROPOSAL 
COLLEGE: Helena College	
COLLEGE DEGREE PROGRAM: Industrial Welding and Metal Fabrication AAS	

SUGGESTED HIGH SCHOOL COURSES

9th	Graduation Requirements Workforce/College Prep	English I, Algebra, Physical Science, PE/Health	Recommended CTE Cluster Foundation Course(s): Welding I, Drafting 1
	CTE and/or Electives	Welding I, Technical Drafting	
10th	Graduation Requirements Workforce/College Prep	English 2, Geometry, Biology, World History, PE/Health	Recommended CTE Pathway Courses: Welding I, Welding II, Welding III Drafting 1, Mechanical Drafting, Architectural Drafting
	CTE and/or Electives	Welding I or II, Technical Drafting, Carpentry, Power Tech	
11th	Graduation Requirements Workforce/College Prep	English 3, Algebra 2, Chemistry or Ecology, or Physics, US History	Other Recommended CTE Courses: Intro to Computers, Intro to Business, Personal Finance Carpentry, Power Tech, Accounting I (Start)
	CTE and/or Electives	Welding II or Welding III, Architectural Drafting, Advanced CAD, Carpentry, Power Tech	
12th	Graduation Requirements Workforce/College Prep	English 4, Government, Ecology	Career & Technical Student Organization(s): SkillsUSA, Jefferson High School.
	CTE and/or Electives	Welding III, Advanced CAD, Carpentry, Power Tech	

ADVANCED LEARNING OPPORTUNITIES

High School to College/Career Linkages

Dual Enrollment courses: **Welding 112: Cutting Processes**; **WLDG 107 Industrial Safety**, **WRIT101 College Writing** (can sub for WRIT121) DFT150 CAD 2D

Online courses: Digital Academy [HR 100T Human Relations](#)

Other: *Work Experiences*

POSTSECONDARY PROGRAM OF STUDY

	Math	English	Major	Other
Semester 1	M111T Technica I Math (3)		WLDG 107 Industrial Safety (2); WLDG 112, Cutting Processes (3); WLDG 135 GMAW Theory and Practical Application (5); WLDG 181 Shielded Metal Arc Welding (SMAW) Theory and Practical Application (5)	
Semester 2			WLDG 117 Blueprint Reading and Weld Symbols (3); WLDG 131 Layout, Metal Forming & and Fabrication (6), WLDG 140 Intro Gas Tungsten ARC Welding (GTAW) - Integrated Lab (3); WLDG 151 Shop Practices (4);	
Semester 3		WRIT101 College Writing OR WRIT 121T Introduction to Technical Writing (3)	WLDG 217 Advanced Blueprint (2); WLDG 225 Structural Fabrication (2); WLDG 230 Field Welding and Processes (2), WLDG 243 Advanced Metal Fabrication I (6); WLDG 255 CNC Burn Table Programming and Operation (3)	
Semester 4			WLDG 213 Pipe Welding Lab I (5); WLDG 244 Advanced Metal Fabrication II (4); WLDG 245 Metal Fabrication Design and Construction (5); WLDG 265 MSHA Safety Training (1)	HR 100T Human Relations (2)