## Capital High School to Helena College degree program: AAS Industrial Welding & Metal Fabrication





			CUCCECT		
				ED HIGH SCHOOL COURSES	
9th	Graduation Requirements Workforce/College Prep			ebra I, Earth Science, World Cultures, Phys Ed1,	Recommended CTE Cluster Foundation Course(s): Industrial Tech, Welding I, Welding and Machining II, Welding and Machining III
	CTE and/or Electives		Industrial Technology, Construction I; Drafting I		Recommended CTE Pathway
10th	Oth Graduation Requirements Workforce/College Prep		English 2, Geo	ometry, Biology, PE/Health, Fine Art Elective	<b>Courses:</b> Construction 1-3; Industrial Tech, Welding I, Welding and Machining II, Welding and Machining III (Milling Operations)
	CTE and/or Electives		Welding I, Carpentry/Cabinet Making II		Other Recommended CTE
11th	Graduation Requirements Workforce/College Prep		ů,	11T Technical Math (DC), Chemistry, US History	Courses: Computer Tech Skills
		Electives	Welding and Machining II; Carpentry III; Drafting II		Drafting I, Drafting II –Mechanical, CAD, Carpentry, Automotive, Accounting I (DC)
12th	Graduation Requirements Workforce/College Prep		Technical Writ	WRIT101 College Writing (DC), or WRIT 121T ting, US Government	Career & Technical Student Organization(s):
	CTE and/or	<sup>-</sup> Electives	Welding and Machining III - Certification Available – AWS 3G and 4G 3/8 Plate Test minimum; WLDG 112 Cutting Processes; MCH234 Milling Operations Level 1		SkillsUSA
WLDG	112 Cutting Pro courses: N	ocesses; CSTN Iontana Digital .	100 Fundamentals of Academy - <u>HR 1107</u> ess Work Coop, Jol	atics; M12 College Algebra; WRIT121T Technical Writ of Construction Technology (thru NCOTI exam) <u>F Human Relations</u> b Shadow, and Student Shadow at Helena College NDARY PROGRAM OF STUDY	ing, with for college writing;
		Math	English	Major	Other
Semester 1		M111T Technical Mathematics (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 AR( Welding (GTAW) - Integrated Lab (3); WLDG 151 Shop Practices (4);	
Semester 3			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)	