

Helena High School to Helena College apprenticeship program:

## Sheet Metal Apprenticeship AAS

(Note: college coursework subject to change based on industry recommendations)

## BIG SKY PATHWAY



Recommended pathway from Helena High School to Helena College with dual credit opportunities highlighted

### SUGGESTED HIGH SCHOOL COURSES

9th	Graduation Requirements Workforce/College Prep	English I, Algebra, Earth Science, World Cultures, Frosh HP,	Recommended CTE Cluster Foundation Courses: Industrial Technology
	<b>CTE and/or Electives</b>	<b>Welding I, Industrial Technology, Drafting I</b>	
10th	Graduation Requirements Workforce/College Prep	English II, Geometry, Biology, Soph. HP/Health	Recommended CTE Pathway Courses: Carpentry I & II, Drafting or CAD, Welding I, II, III, IV
	<b>CTE and/or Electives</b>	<b>Carpentry I, Welding II, Drafting II, Fine Art Elective</b>	
11th	Graduation Requirements Workforce/College Prep	English III, US History, Chemistry or Forensic Science, Math III	Other Recommended CTE Courses: Money Management, Basic Computer Skills CTE Student Organization(s): Skills USA ( <a href="http://www.skillsusa.org">www.skillsusa.org</a> )
	<b>CTE and/or Electives</b>	<b>Welding III, Carpentry II, Drafting III</b>	
12th	Graduation Requirements Workforce/College Prep	English IV, <b>Technical Math (M111T)</b> , Government	
	<b>CTE and/or Electives</b>	<b>Welding IV, Technical Writing (WRIT121), WLDG112 Cutting Processes, CAD DRT150</b>	

### ADVANCED LEARNING OPPORTUNITIES

#### High School to College/Career Linkages

**CTE START courses:** CSTN 100 with NOCTI test. This program is competency-based. Skills developed in HS may shorten program length.

**Dual Enrollment courses:** **Technical Math (M111T), Technical Writing (WRIT121T), WLDG112 Cutting Processes**

**Online courses:** **Montana Digital Academy - <http://www.montanadigitalacademy.org/> HR 110T Human Relations**

**Other:** Job Shadowing, Work Experience, Internships. Please note: Students must find a business to sponsor apprenticeship

### POSTSECONDARY PROGRAM OF STUDY

	Math	English	Major: Competency-based	Other #
<b>Semester 1 Fall</b>			SHML 100 Safety & Health in Construction (3 credits) SHML 110 Sheet Metal Orientation (3 credits) CSTN 200 Rigging (3 credits)	Work Assignments (40 hours)
<b>Semester 2 Spring</b>			SHML 120 Materials, Hand Tools, Fasteners (3 credits) Co-op (3 credit)	Work Assignments (40 hours) <a href="#">HR110T - Human Relations (2)</a>
<b>Semester 3 Fall</b>	<b>M111T Technical Math (3)</b>		MCH 240 Metallurgy (2 cr) SHML 160 Basic Ductwork Installation (3)	Work Assignments (40 hours)
<b>Semester 4 Spring</b>		<b>WRIT121 Technical Writing (3)</b>	SHML 170 Drafting & Layout Tools (3 cr) Co-op (3 credits)	Work Assignments (40 hours)
<b>Semester 5 Fall</b>			SHML 200 Blueprint Reading and Uniform Building Codes (3 credits) WLDG 131 Intro to Layout and Pattern Making (3 credits) SHML 210 Duct Liners and Insulation (3)	Work Assignments (40 hours)
<b>Semester 6 Spring</b>			WLDG 133 Soldering and Resistance Welding (4 credits) Co-op (3 credits)	Work Assignments (40 hours)
<b>Semester 7 Fall</b>			SHML 250 Stainless Steel Orientation (3) SHML 260 Sheet Metal Shop Practices (3) SHML 270 Advanced Layout & Fabrication Plasma Cutting (3 credits)	Work Assignments (40 hours)
<b>Semester 8 Spring</b>			SHML 280 Psychrometrics and Duct Sizing (3 credits) SHML 290 Architectural Sheet Metal (3) Co-op (3 credits)	Work Assignments (40 hours)