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





| | | | CUCCECT | | |
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| | | | | 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 | Courses: 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 | ⁻ 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) | |