



SUGGESTED HIGH SCHOOL COURSES

9th	Graduation Requirements Workforce/College Prep	English I, Algebra I, Earth Science, World Cultures, Phys Ed1, Fine Arts Elective	Recommended CTE Cluster Foundation Course(s): Industrial Tech, Basic Computer Skills, Career Planning
	<i>CTE and/or Electives</i>	Industrial Technology, Basic Computer Skills, Career Planning	
10th	Graduation Requirements Workforce/College Prep	English II, Geometry, Biology, PE/Health	Recommended CTE Pathway Courses: Industrial Tech, Welding I, Welding and Machining II, Welding and Machining III
	<i>CTE and/or Electives</i>	Welding I, Drafting I	
11th	Graduation Requirements Workforce/College Prep	English III, Algebra II, Chemistry, US History	Other Recommended CTE Courses: Drafting I, Drafting II –Mechanical, CAD, Carpentry
	<i>CTE and/or Electives</i>	Welding and Machining II; Drafting II	
12th	Graduation Requirements Workforce/College Prep	English 4 and WRIT101 College Writing (DC), OR WRIT 121T Technical, M111T Technical Math (DC), Physics, US Government	Career & Technical Student Organization(s): Skills USA
	<i>CTE and/or Electives</i>	Welding and Machining III (MCH 234 Milling Operations I) - Certifications Available HAAS Milling Level II, NIMS CNC Milling Level 1, CNC Mill Operator	

ADVANCED LEARNING OPPORTUNITIES

High School to College/Career Linkages

Advanced Placement: Lang & Comp 3, History, European History, English IV, Government, Economics, Biology

Dual Enrollment courses: M111T Technical Mathematics; M121 (DC) College Algebra; WRIT121T Technical Writing, WRIT101 College Writing; MCH 234 Milling Operations I; WLDG 112 Cutting Processes

Online courses: Montana Digital Academy - <http://www.montanadigitalacademy.org/>, HR110T Career Development and Human Relations

Other: Work-based Learning: Business Work Coop (Business Education Instructors, Counselors) Job Shadowing (Boeing) Student Shadowing (HC)

POSTSECONDARY PROGRAM OF STUDY

	Math	English	Major	Other
Semester 1	M111T Technical Mathematics 3cr		MCH120 Blueprint Reading and Interpretation for Machining, 2cr; MCH130 Machine Shop, 3cr; MCH132 Introduction to Engine Lathes, 5cr; MCH134 Intro to Mills, 5cr	
Semester 2			MCH136 Advanced Lathes, 5cr; MCH137 Advanced Mills, 5cr; MCH139 Grinding Applications 2cr; MCH240 Metallurgy, 1cr; MCH246 Shop Practices, 2cr	
Semester 3		WRIT121T Intro to Technical Writing	MCH230 Tooling and Fixtures in CNC, 2cr; MCH231 CNC Turning Operations Level 1, 3cr; MCH232 CNC Turning Programming Operations 2, 3cr; MCH234 Milling Operations Level 1, 3cr; MCH236 CNC Millings Programming Operations 2, 3cr	
Semester 4			MCH233 CNC Turning Programming Operations 2, 3cr; MCH236 CNC Milling Programming Operations 3, 3cr; MCH237 CAD/CAM CNC turning Center, 5cr; MCH238 CAD/CAM CNC Machining Center, 5 cr	HR110T Career Development and Human Relations, 3cr