



Career Plan of Study—Baker High School



Pathway Options: Production, Manufacturing & Production Process Development, Maintenance, Installation and Repair, Quality Assurance, Logistics and Inventory Control, Health, Safety and Environmental Assurance

Overview: Jobs in manufacturing career cluster involve planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities, such as production planning and control, maintenance, and manufacturing/process engineering.

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

	9th Grade	10th Grade	11th Grade	12th Grade
High School	*English 9 *Math	*English 10 *Math	*Composition 11/English Electives	*Composition 12/English Electives
	*PE/Health *Doc Formatting	*PE/Health *Biology	Or AP English	Or AP English
	*Earth Science		*US History *Math	*US Government
	*World History		*Speech	
	Career Electives: Computer Apps	Career Electives: Beginning Ag Welding/Small Engines, Computer Apps	Career Electives: Ag Welding, Drafting, Construction, Computer Apps (Engineering—Pre-Calculus, Chemistry)	Career Electives: Advanced Drafting, (Engineering—AP Calculus, Physics)
Post-Secondary Degrees	2 Year College/Vo-Tech		College/University	
	City College- Sustainable Energy Tech, Power Plant Tech, Process Plant Technology, Welding and Metal Fabrication Highlands College— Sustainable Energy Tech, Metals Fab Gallatin College— Welding Technology Great Falls College— Sustainable Energy Tech, Welding Tech/Fabrication, Industrial Technician Helena College— Machine Tool Tech, Welding Tech, Metals Technology, Sheet Metal Apprenticeship Missoula College— Welding Technology, Electronics Tech	WDTI— Welding Casper— Welding Tech, Power Plant Tech, Process Tech Dawson— Welding Technology, Welding Tier 1 Flathead— Welding Technology, Industrial Machine Technology/CNC, Electrical Tech, Welding and Fabrication, Machining, Metal Arts Fabrication Miles City— Biofuel Energy NW-Powell— Welding, Welding Tech, Robotics Tech Sheridan— Welding, Engineering Tech, Bio-tech	BHSU— Industrial Tech., Carroll— Engineering DSU— Manufacturing Engineering, Industrial Eng MSU— Bioengineering, Electrical Eng., Civil Eng., Industrial Eng., Mechanical Eng., Biotechnology MSU Northern— Welding Tech MT Tech— Electrical Eng., Civil Eng., Mechanical Eng., Mining Eng., Occup. Safety & Health, Welding Eng., Metallurgical & Materials Eng. Petroleum Eng., Machining Tech SDSMT— Electrical Eng., Civil Eng., Industrial Eng., Mechanical Eng., Mining Engineering, Metals U of M— Energy Technology	
Activities & Employment	Suggested Extra-Curricular Activities		Suggested Volunteer/Employment Opportunities	
	FFA		Welder's Helper Summer Construction Work Oil Field Work Farm/Ranch Work	

* Required for graduation at BHS



Advanced Learning Opportunities - High School to College/Career Linkages

Dual Credit: See School Counselor for available opportunities
 Advanced Placement: See BHS Schedule for AP offerings
 Online Learning: Approval of online credits must be obtained from Principal

Sample Occupations and Degree Areas	Military	Associate's Degree
	Professional Certificate	Bachelor's Degree
	Apprenticeship	Graduate Degree
	Certificate of Applied Science	
	Baker High School Graduation	Montana University System College Entrance
	Requirements	

- ◆ Requires High School Diploma or GED
- ◆ 17 years old with parental consent, 18 without
- ◆ For more information go to: <http://todaysmilitary.com>

- ◆ Requires diploma or GED
- ◆ 60-72 credits; includes 15-25 general education credits
- ◆ Complete in 2 years (*if prepared academically in math and English*)
- ◆ Examples: Biofuel Energy, Power Plant Technology, Process Plant Technology, Welder, Sheet Metal Worker

- ◆ Requires High School Diploma or GED
- ◆ Less than 30 credits; little/no general education credits
- ◆ Complete in one year or less
- ◆ Examples: Welding Technology

- ◆ Requires 4-year college prep for admission
- ◆ Approximately 128 credits
- ◆ Complete in four years
- ◆ Examples: Bioengineering, Electrical Engineer, Civil Engineer, Industrial Engineer, Mechanical Engineer, Mining Engineer, Safety Engineer, Welding Engineer, Metallurgical & Materials Engineer, Petroleum Engineer

- ◆ Requires High School Diploma or GED
- ◆ Must be at least 18
- ◆ Minimum 2,000 hours of supervised experience
- ◆ Examples: Electricians, Sheet Metal Workers, Machinist, Welder

- ◆ Requires education beyond Bachelor's Degree
- ◆ Examples: Graduate degrees are available in all areas of Engineering and Research.

- ◆ Requires High School Diploma or GED— Complete in 1 year or less
- ◆ 30-45 credits; limited general education credits
- ◆ Examples: Welder, Machinist, Sustainable Energy, Water Quality

4 credits English
 3 credits Social Studies
 3 credits Math
 2 credits Science (1 Physical, 1 Biological)
 2 credits PE/Health
 1 credit Fine Arts
 1 credit Vocational/Practical Arts (.5 must be Document Formatting)
 .5 credit Speech
 5.5 credits Electives
TOTAL 22 CREDITS

4 credits English
 3 credits Social Studies
 3 credits Math (Algebra I, II, and Geometry)
 2 credits Science
 2 credits Electives

Rigorous Core Courses include:
 1 additional credit Math
 1 additional credit Science
 1 additional credit Elective

Visit www.mus.edu for further information