



Manufacturing Individual Graduation Plan

PRODUCTION*



This career cluster plan of study is a source of information as you develop your own personal learning plan. This plan lists examples of suggested coursework. The Graduation Requirements shown here are general, but Plans of Study should meet most high school graduation requirements.

Coursework					
Subject	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Advanced Coursework for Postsecondary Credit
Language Arts (9 credits)	English 9	English 10 Speech	English 11	English 12	Tech Prep Advanced Placement
Mathematics (6 credits)	Algebra I	Geometry Algebra II	Pre-Calculus	Calculus Statistics	Tech Prep Advanced Placement
Science (6 credits)	Earth Science	Biology	Chemistry Anatomy/Physiology	Physics	Tech Prep Advanced Placement
Social Studies (5 credits)	World History Geography	US History 10	US History 11	American Government Economics	Tech Prep Advanced Placement
Idaho Professional-Technical Education/Other Classes	• Introduction to Manufacturing Occupations	TI 1001 Precision Machining Level I	TI 1002 Precision Machining Level II	TI 1003 Precision Machining Level III TI 9810 Occupational and Career Experience in Machining	Tech Prep
Additional Requirements or Electives	Physical Education Health	Foreign Language Computer Technology	Physical Education Health Foreign Language Computer Technology	Computer Technology	Tech Prep Advanced Placement
Extended Learning					
School-Based	ITEA Career Research Senior Project		SkillsUSA Cooperative Education	Career Days Internships Service Learning Project	Career Interviews Job Shadowing
Community-Based	Website Development/Maintenance for Community Organizations		Mentorships	Part-Time Employment	Volunteer

■ Coursework					
Major	Year 13	Year 14	Year 15	Year 16	Occupations Relating to This Pathway
Option	<p>BSU Articulation</p> <p>APPACAD 111: Applied Communications (3)</p> <p>APPACAD 136: Technical Math (3)</p> <p>MACHTECH 103: Machine Shop Laboratory (7)</p> <p>MACHTECH 127: Related Blueprint Reading (2)</p> <p>MACHTECH 153: Machine Shop Theory (3)</p> <p>ISU Articulation</p> <p>MACH 110: Engine Lathe Practices 1 (2)</p> <p>MACH 111: Engine Lathe Theory 1 (2)</p> <p>MACH 112: Machine Math 1 (5)</p> <p>MACH 120: Milling Practice 1 (2)</p> <p>MACH 121: Milling Theory 1 (5)</p> <p>MACH 125: Blueprint Reading (2)</p> <p>NIC Articulation</p> <p>MACH 151: Machine Tech Theory 1 (4)</p> <p>MACH 151L: Machine Tech Lab 1 (6)</p> <p>MACH 171: Blueprint Reading (2)</p>	<p>Complete Certificate</p>	Complete an AA Degree	Complete a 4-year degree	<p>Assembler</p> <p>Automated Manufacturing Technician</p> <p>Calibration Technician</p> <p>Electrical Installer and Repairer</p> <p>Electromechanical Equipment Assembler</p> <p>Extruding and Drawing Machine Setter/Set-Up Operator</p> <p>Foundry Worker</p> <p>Grinding, Lapping, and Buffing Machine Operator</p> <p>Hand Packer and Packager</p> <p>Hoist and Winch Operator</p> <p>Instrument Maker</p> <p>Large Printing Press Machine Setter and Set-Up Operator</p> <p>Machine Operator</p> <p>Medical Appliance Maker</p> <p>Micro and Nano Fabrication Technicians</p> <p>Milling Machine Setter and Set-Up Operator</p> <p>Millwright</p> <p>Pattern and Model Maker</p> <p>Precision Layout Worker</p> <p>Sheet Metal Worker</p> <p>Solderer and Brazier</p> <p>Tool and Dye Maker</p> <p>Welder</p>
	Option				