

Manufacturing



The Manufacturing Pathway is a hands-on, project-based, learn-by-doing set of courses that helps prepare students for a future in machining, welding or manufacture engineering



	Pathway Course	English	Math	Social Studies	World Language	Science	PE
Year 1	Introduction to Engineering & Design	English 1 or English 1H	Algebra 1 or Geometry	Elective	Spanish 1 or French 1 Or Latin 1	Biology	PE
Year 2	Principles of Engineering	English 2 or English 2H	Geometry or Algebra 2	World History	Spanish 2 or French 2 Or Latin 2	Chemistry	PE
Year 3	Computer Integrated Manufacturing	English 3 or AP Eng Language	Algebra 2 or Pre-Calculus	US History	Elective	Physics	Elective
Year 4	Advanced Manufacturing (Recommended but not required, taken through ROP or CC)	English 4 or AP Eng Lit	Pre-Calculus or Calculus	Government and Economics	Elective	Elective	Elective

External Activities & Experiences

- FHS Engineering Club
- UCI Energy Invitational
- VEX Robotics Team
- Chevron Challenge

Possible College Majors

- Machine Technology
- Welding Technology
- Engineering

Certifications / College Credit

- Autodesk Inventor
- CAD/CAM

Careers

- Machinist
- Welder
- CAD/CAM Specialist
- Engineer
- Quality Control
- CNC Operator

*Please see your counselor for details on Honors and Advanced Placement courses available