

# MVHS Technology & Engineering Course Listings

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Exploratory Courses			
Title	Level	Prerequisite	Additional Information
Engineering Technology 1	9-12	None	An introduction to the area of engineering. Class combines modular and hands-on learning experiences. Good for students who aren't sure if engineering is their area of interest.
Engineering Technology 2	9-12	None	This course is the next level of exploratory courses. Class combines modular and hands-on learning experiences. Students engage in projects that build upon concepts learned in Engineering Technology 1.
Communications Technology			
Title	Level	Prerequisite	Additional Information
Media Communication & Production I	9-12	None	Hands-on class. Introduction to various forms of electronic media. Professional level equipment and editing software used. Dual Credit course.
Broadcast Journalism & Production II	10-12	Media Communication I and Instructor Approval	Students choose Production track or Broadcast Journalism track. Dual Credit course.
Broadcast Journalism & Production III	11-12	Broadcast Journalism & Production II and Instructor Approval	Students choose Production track or Broadcast Journalism track. Will work on school related media production assigned by instructor along with personal projects.
Manufacturing and Construction Technology			
Title	Level	Prerequisite	Additional Information
Woods Fabrication I	10-12	None	Basic understanding of woodworking industry.
Woods Fabrication II	11-12	Woods Fabrication I	Advanced skills. Larger projects of students choosing.
Intro to Construction	10-12	None	Basic construction skills. Ideal for students interested in Construction careers.
Drafting & Design	10-12	None	Introduction to drafting. Ideal for students interested in Engineering and Architecture.
Architectural Drafting	11-12	Drafting & Design	Instruction focuses on architectural techniques, history and homestyles. Use of CADD software. A must for future Architects. Dual Credit course.
Computer Aided Drafting and Design	11-12	Drafting & Design	A <i>must</i> course for Engineering and Architectural students. AutoCAD software.
Transportation Technology			
Title	Level	Prerequisite	Additional Information
Power Mechanics	9-12	None	Basic knowledge of small engines.
Automotive Maintenance	10-12	None	Ideal for students who want to know basic car maintenance
Automotive Mechanics	10-12	Power Mechanics	A <i>must</i> for students interested in Auto careers.
Automotive Servicing	11-12	Auto Mechanics and Instructor Approval	A <i>must</i> for students interested in Auto Servicing careers. Opportunity to work on student and staff cars. Two Period Block, Weighted class.
Project Lead The Way			
Title	Level	Prerequisite	Additional Information
Introduction to Engineering Design (IED)	9-12	Algebra I	Weighted Grade - a <i>must</i> for students interested in Engineering.
Principles of Engineering (POE)	10-12	Appropriate grade level math & science	Weighted Grade – Foundation PLTW course.
Digital Electronics (DE)	10-12	IED, or POE, PLUS Appropriate Grade Level Math and Science	Weighted Grade - For students interested in Electrical Engineering. Dual Credit course.
Civil Engineering and Architecture (CEA)	10-12	IED, POE, or Drafting PLUS Appropriate Grade Level Math and Science	Weighted Grade - For students interested in Civil Engineering.
Engineering Design and Development (EDD)	12	IED or POE, and one other PLTW course	Weighted Grade – Capstone course where students work in teams to design and develop original solutions to open-ended technical problems.