



Chippewa Valley High School Design Technology Program

2021-2022 School Year Options



Important News!!!!



Elective Class Opportunity

What is Design Technology????

The Design Technology Program is a planned series of career preparation courses. These courses provide students with an in depth, sequenced educational experience in mechanical design, engineering and STEM (Science, Technology, Engineering & Mathematics) career pathways. The design program here at Chippewa Valley High School will help students to better understand the technical world around them, how products are designed and the career opportunities that await students after graduation.

Our Design Technology Program will challenge students to “think outside the box,” become more creative, explore different technologies and work in teams. Our goal is to give students the design skills needed to enter the workforce as a CAD designer, enter into engineering colleges, receive internships and apprenticeships related to mechanical engineering fields.

Year 1: Technical Design

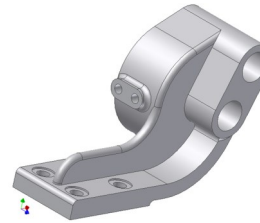
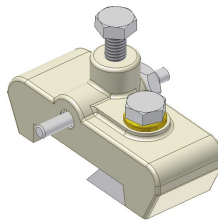
Class Title:	Grade Taken In:	Credits:
Technical Design 1A (1 Hr)	9-12	.5
Technical Design 1B (1 Hr)	9-12	.5

Technical Design 1A/1B: 9501/9502 (1 HR)

This is the first course of a possible four year vocational and pre-professional program. It introduces the student to basic drafting and design techniques. Students will be practicing the techniques of sketching, lettering, measuring, tool line work, geometric construction, orthographic projection, computer aided design and isometrics. Students will be learning how to use AutoCad 2015 and Inventor Professional 2015 Solid Modeling design software. Students will also be participating in a variety of “hands-on” projects related to design and pre-engineering.

Classes Offered In The CVHS Design Technology Program

(Course #)	Class Title:	Grade Taken In:	Credits:
(9501/9502)	Technical Design (1 Hr)	9-12	1
(9507/9508)	Mechanical Design (1 Hr)	10-12	1
(9511/9512)	Engineering Design 1A/1B (1 Hr)	11-12	1
(9513/9514)	Engineering Design 1C/1D (1 Hr)	11-12	1
(9465/9466)	Research & Development (2Hr)	12	2
(9607/9608)	Design Internship (1 or 2 Hr)	12	1 or 2



Focus Areas of our Design Program:

- Computer Aided Design (CAD)
- Technical Sketching, Measuring & Lettering
- Mechanical Design
- 3D Solid Modeling
- Build Projects & Fabrication
- Problem Solving Activities
- STEM Projects (Science, Technology, Engineering & Mathematics)
- Prototyping
- Club Activities: MITES / Square One Education Network / Robotics Club
- Industry Software Taught: Autocad 2021, Inventor 2021 Solid Works 2021 & MicroSoft Office Products
- MAT2 Apprenticeship Program (Work & College Fully Paid)

*** The Design Technology program fulfills the 1-credit Visual, Performing & Applied Art (VPAA) graduation requirement. Successfully completing two (.5 credit) CTE classes or one (1.00 credit) CTE class are required meet this graduation requirement.

*** The 2nd year FOREIGN LANGUAGE requirement may be met by successfully completing a CTE class in Design Technology that is 1.0 credit or a year-long class.

NOTICE OF NONDISCRIMINATION

It is the policy of Chippewa Valley Schools not to discriminate on the basis of race, color, religion, national origin or ancestry, gender, age, disability, height, weight or marital status in its programs, services, activities, or employment. Inquiries related to nondiscrimination policies should be directed to: Civil Rights Coordinator, Assistant Superintendent of Human Resources, Chippewa Valley Schools Administration, 19120 Cass Avenue, Clinton Township, MI 48038 Phone: 586-723-2090 / Nondiscrimination inquiries related to disability should be directed to: Section 504 Coordinator, Director of Special Services, (same address) Phone: 586-723-2180

For Additional Information, please contact:

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