

Engineering & Architectural Design

Students who complete 2 credits in this pathway will meet their state graduation pathway through the CTE Sequence option.



The **Engineering & Architectural Design Program of Study** teaches engineering principles. Students engage in hands-on design projects for real-world experience and problem-solving skills. The program covers subjects like ski design, engineering, marketing, and customer service. Hands-on experiences develop both creative and technical abilities. Courses have students working in CADD and Introduction to Engineering with a capstone project in Ski Design and Adaptive Play.



Is this program a fit for you?

- Enjoy designing things and solving problems
- Enjoy projects that allow for personal creativity and presentation
- Comfortable working with technology to design and create
- Interested in architecture, engineering, drafting, or other careers in design



Courses

- Engineering & Design I
- Computer-Aided Drafting & Design I
- Computer-Aided Drafting & Design II
- Ski Design & Adaptive Play

Additional Possibilities

- TSA
- Lead - Doug Merrill

Career Connected Learning

- Job Shadows/Internship
- Career Exploration Field Trips

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Certificates

- Drafting

2 year option

- Drafting

4 year option

- Drafting and Design Technology
- Architecture
- Mechanical Engineering
- Electrical and Electronics Engineering
- Engineering Technologies
- Civil Engineering

Example of Careers and Salary

- Technical Drafter \$ 53,480
- Industrial Designer \$ 67,790
- Architect, Urban Planner \$ 76,930
- Mechanical Engineering, \$ 84,190
- Computer Hardware Engineering \$115,080
- Architecture and Engineering Management \$134,730

*Data Source - Schoolinks

Program Courses

Program High School Courses	Grades	Equivalencies	CIHS	Dual Credit	Industry Recognized Certificate (IRC)
Engineering & Design I	9, 10, 11, 12				YouScience - Engineering Technology
Computer-Aided Drafting & Design I	9, 10, 11, 12	Art		X	YouScience - CAD 1 Mechanical 1
Computer-Aided Drafting & Design II	9, 10, 11, 12				YouScience - CAD Architectural 1
Ski Design & Adaptive Play	10, 11, 12	Science			YouScience Manufacturing Principles 1

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