

Sherwood High School ENGINEERING

For students interested in:

- Developing new technologies
- · Designing devices for improving various products and industries
- Creating original products and designs
- Planning construction
- Sequence of Courses

Introductory

- ENGR1 Intro to Drafting & Design (9-12th grade, 0.5 credit)
- Architecture 1 (9-12th grade, 0.5 credit)

Intermediate

- ENGR2 Rapid Prototyping (9-12th grade, 0.5 credit)
- ENGR3 Advanced Drafting & Design(9-12th grade, 0.5 credit)
- Architecture 2(9-12th grade, 0.5 credit)
- CAD for College Engineering(9-12th grade, 0.5 credit)

Advanced

- ENGR4 Advanced Digital Manufacturing (9-12th grade, 0.5 credit)
- ENGR5 Engineering Projects (9-12th grade, 0.5) credit)
- Architecture 3 (9-12th grade, 0.5 credit)
- Architecture 4 (9-12th grade, 0.5 credit)
- CTE Apprentice Eng/Arch (9-12th grade, 0.5 credit)

Dual Credit Offerings

- PCC CADD 105 Digital Design and Fabrication Fundamentals (3 credit hours)
- PCC CADD 160 Drafting Fundamentals (4 credit hours)
- PCC CADD 175 SolidWorks Fundamentals (3 credit hours)

Students will learn:

- To utilize an iterative design process
- Computer-Aided Design (CAD) software to create engineering designs
- To develop written & verbal communication skills
- To apply design principles to identify and solve problems
- To optimize product designs for and operate; 3D printers, vinyl & laser cutters, & CNC machines

Career Options

| Electrical and Electronic Engineering Technologists and Technicians | \$63,190 |
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| Electrical Engineers | \$103,934 |
| Mechanical Engineers | \$100,922 |
| Architectural and Civil Drafters | \$61,464 |
| Computer Hardware Engineers | \$132,288 |

2022 median annual salary for tri-county area high wage and high demand -Oregon Employment Division

Current Industry Partners

• DW Fritz

- Shields MFG
- Mentor Graphics
- Engineered Solution Group

