Tigard High School



MANUFACTURING

For students interested in:

- · Designing unique products
- · Building with tools
- Creating products
- Applying learning in a
- · Using tools and
- real-world environment
- equipment

Sequence of Courses

Introductory

- Exploring Engineering and Design (9-12th grade, 1.0 credit)
- Intro to Engineering (9-11th grade, 1.0 credit)
- Fusion 360 Fundamentals (10-12th grade, 1.0 credit)
- SOLIDWORKDS Fundamentals (9-12th grade, 0.5 credit)

Intermediate

Digital Design and Fabrication Fundamentals

Advanced

- Digital Design and Fabrication Advanced (10-12th grade, 1.0 credit)
- SOLIDWORKS Advanced

Dual Credit Offerings

- PCC CADD 105 Digital Design and Fabrication Fundamentals (3 credit hours)
- PCC CADD 155 Fusion 360 Fundamentals (3 credit hours)
- PCC CADD 175 SolidWorks Fundamentals (3 credit hours)

Students will learn:

- To use a computer and machines to model and create products
- To apply quality control techniques to achieve desired specifications
- To plan manufacturing operations to meet deadlines
- To operate machine shop equipment such as a laser cutter or 3D printer
- To practice safe, legal, and ethical work habits
- Industry standard software

Career Options

Sheet Metal Workers	\$78,354
Structural Iron and Steelworkers	\$79,373
Industrial Engineers	\$103,334
Industrial Machinery Mechanics	\$62,856
Welders, Cutters, Solderers, and Brazers	\$51,355
Machinists	\$51,667
Computer Numerically Controlled Tool Programmers	\$65,083

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

Current Industry Partners

OMIC

- Lam Research
- WaferTech
- Microsoft
- Intel

- Robotics