

Forest Grove High School

MECHATRONICS

For **students** interested in:

- Developing new technologies
- Creating original products
- Computers

- Building with tools
- Applying learning in a real-world environment

Sequence of Courses

Introductory

- Mechatronics 1 (9-12th grade, 0.5 credit)
- Mechatronics 2 (9-12th grade, 0.5 credit)
- Mechatronics Design SoildWorks CAD (9-12th grade, 0.5 credit)

Intermediate

- Mechatronics 3 (10-12th grade, 0.5 credit)
- · Mechatronics 4 (10-12th grade, 0.5 credit)

Advanced

- Mechatronics Processes (9-12th grade, 0.5 credit)
- Advanced Mechatronics Processes (10-12th grade, 0.5 credit)
- Advanced Mechatronic Design Advanced SolidWorks (9-12th grade, 0.5 credit)

Dual Credit Offerings

- PCC CADD 175 SolidWorks Fundamentals (3 credit hours)
- PCC MT 101 Introduction to Semiconductor Manufacturing (1 credit hour)
- PCC MT 102 Introduction to Semiconductor Devices (1 credit hour)
- PCC MT 103 Introduction to Micro and Nano Processing (1 credit hour)
- PCC MT 121 Digital Systems I (3 credit hours)

Students will learn:

To create solutions to real-world problems

To create products/programs that meet specifications

How to work in teams and other professional skills

To use computer-aided drafting software

To create with 3D printers and other technologies

How to practice safe, legal, and ethical work habits

Career Options	
Electrical, Electronic Electromechanical Assemblers	\$45,647
Semiconductor Processing Technician	\$57,285
Mechanical Engineering Technicians	\$72,084
Electrical & Electronics Technologists/Technicians	\$75,722
Electrical & Electronics Equipment Repairers/Technicians	\$80,589
Electronics Engineer	\$104,466
Electrical Engineer	\$107,665
Mechanical Engineer	\$109,399
Computer Hardware Engineer	\$147,315

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

Current Industry Partners

- ASM
- Applied Materials
- City of Hillsboro
- Jireh Semiconductor
- Lam Research
- Qorvo Semiconductor

Intel

Industry Recognized Credentials

SolidWorks CSWA Exam & Certification

