



Forest Grove High School

MECHATRONICS

For **students** interested in:

- Developing new technologies
- Building with tools
- Creating original products
- Applying learning in a real-world environment
- Computers

Sequence of Courses

Introductory

- Mechatronics 1 (9-12th grade, 0.5 credit)
- Mechatronics 2 (9-12th grade, 0.5 credit)
- Mechatronics Design – SolidWorks 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)



Click QR Code to connect to Industry Sheet

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	\$47,490
Electro-Mechanical and Mechatronics Technologists/Technicians	\$53,704
Semiconductor Processing Technician	\$62,053
Mechanical Engineering Technicians	\$73,987
Electrical and Electronic Engineering Technologists and Technicians	\$75,917
Electronics Engineer	\$119,870
Electrical Engineer	\$119,017
Mechanical Engineer	\$111,999
Computer Hardware Engineer	\$147,315

2024 median annual salary for tri-county area high wage and high demand -Oregon Employment Division

Current Industry Partners

- Adobe
- Applied Materials
- City of Hillsboro
- Intel
- Jireh Semiconductor
- Lam Research
- Qorvo Semiconductor
- KLA Tencor

Industry Recognized Credentials

- SolidWorks CSWA Exam & Certification



PACTEC
Portland Area Career Technical Education Consortium



Portland Community College