

Manufacturing Cluster

Mechatronics is defined as the combining of several disciplines, Electrical Engineering, Mechanical Engineering, Computer Engineering and Robotics. The combination of these engineering disciplines creates design, development, and control of very complex systems used in a range of industries including manufacturing, medicine, aircraft, and all service industries. Mechatronics is a field that changes daily with the rapid improvements in technology and computer systems. Systems are networked to meet the demands of automated industrial processes and students are trained to meet these necessary entry-level skills as well as entry into a post-secondary school.

Program Duration & Grade Level

Mechatronics is a two (2) year program

Once a student starts in 11th grade, they will be required to continue and complete the Mechatronics program in their 12th grade year.

Certifications & Qualifications

Upon completion of this two-year program, students will receive the following certifications: NIMS Certification and OSHA-10

Requirements for Program

- Completion of Algebra I
- Maintain a 80 average in the course
- Complete Mechatronics I with an 80 or higher
- Read blueprints, schematics, and diagrams to determine the method and sequence of assembly parts, machine, or piece of equipment
- Verify dimensions of parts, using precision measuring instruments
- Operate metalworking machines to make housings, fittings, and fixtures
- Repair and calibrate hydraulic and pneumatic assemblies
- Test the performance of electro-mechanical assemblies using test instruments; and install electronic parts and hardware using soldering equipment and hand tools

Estimated Pay

Estimated pay salaries for a person in the Mechatronics field

Job Description	Degree	Estimated Starting Salary
Electro-Mechanical Technician	Associate Degree	\$53,411
Electrical Engineer	Bachelor's Degree	\$73,493
Mechanical Engineer	Bachelor's Degree	\$64,585