

Mechatronics Technology Program

Associate of Applied Science Degree

60 Credit Hours

Purpose:

The Mechatronics Technology Program prepares students for industrial automation in applications (engineering) positions, as well as service (maintenance) type positions by providing knowledge and hands-on experience in electricity, fluid power, sensors, control systems, robotics, and programmable controllers (components that are used in a wide variety of industrial automation systems, machines, and equipment. The program is designed for people who are interested in product development, plant maintenance, machine set-up and installation, and troubleshooting of modern computer controlled machines. Mechatronics engineering technician jobs are found in the manufacturing, energy, medical, electronics, agriculture, biotechnology, and automotive industries.

Support Courses:

CS 102	Computer Literacy	3 Credit Hours
EN 101 or EN 101A	English Composition I	3 Credit Hours
MT 124 or MT 124A	Technical Math	3 Credit Hours
OR 105	Orientation to Technical Programs	1 Credit Hour
PH 200 or higher	Introductory Physics	4 Credit Hours
SP 103	Speech Fundamentals	3 Credit Hours
Restricted Elective	¹ Social Science Elective	3 Credit Hours

Major Courses:

EG 103	Electrical Calculations	3 Credit Hours
EG 105	Industrial Safety	1 Credit Hours
EG 107	Introduction to Circuits	4 Credit Hours
MX 110	Introduction to Mechatronics	2 Credit Hours
MX 120	Mechanical Power I	2 Credit Hours
MX 130	Fluid Power I	2 Credit Hours
MX 180	PLC Fundamentals	1 Credit Hour
MX 184	PLC Interfacing and HMIS	1 Credit Hour
MX 186	PLC Applications	1 Credit Hour
MX 190	Industrial Robotics	3 Credit Hours
MX 298	Capstone	1 Credit Hour
Restricted Electives	² Specialization Courses	18 Credit Hours

¹Choose from any Psychology or Sociology course

²Specialization Courses (18 hours): Student must complete a series of restricted electives. Courses offered to fulfill the electives will be structured around current business and industry demands. Courses are limited to Electrical, Mechatronics, Welding, Robotics, and AutoCAD, courses not already required by the program and other related courses as approved by the Division Head for Applied and Industrial Technology.

For more information, please contact:

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