

Mechatronics

Associate in Applied Science
60 Credit Hours



Purpose

The Mechatronics 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.

The full Mechatronics Technology Program is available on the Williamson Campus. The Boone/Lincoln, Logan, and Wyoming/McDowell campuses offer the general education/program support courses only.

Dept/No.	Title	Credit Hours
Support Courses		
CS 102	Computer Literacy	3
EN 101 or EN 101A	~English Composition I	3
MT 124	Technical Math	3
or	or	
MT 124A	Technical Math, Enhanced	
OR 105	Orientation to Technical Programs	1
PH 200 or higher	~Conceptual Physics	4
SP 103	~Speech Fundamentals	3
	¹ Social Science Elective	3
Major Courses		
EG 103	Electrical Calculations	3
EG 105	Industrial Safety	1
EG 107	Introduction to Circuits	4
MX 110	Introduction to Mechatronics	2
MX 120	Mechanical Power I	2
MX 130	Fluid Power I	2
MX 180	PLC Fundamentals	1
MX 184	PLC Interfacing and HMIS	1
MX 186	PLC Applications	1
MX 190	Industrial Robotics	3
MX 298	Capstone	2
	² Specialization Courses	18

~ Designates courses on the statewide Core Coursework Transfer Agreement.

¹Choose from any Psychology or Sociology course

²Specialization Courses (minimum of 18 credit hours): Students 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 of Applied and Industrial Technology.

A program course sequence is available at <http://www.southernwv.edu/programs/mechatronics>

Division Head: 304.236.7633

Administrative Secretary: 304.236.7619

E-mail: technology@southernwv.edu

~ Designates courses on the statewide Core Coursework Transfer Agreement.

¹Any college-level course not already specified in the program may be used to fulfill the general elective requirement.

²Choose BS 115 for the Entrepreneurship and Health Care Options; choose MN 212 for the Energy Option.

A program course sequence is available at <http://www.southernwv.edu/programs/management>

Division Head: 304.236.7620

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