

Mechatronics (642)

Associate of Applied Science

When graduates of the Mechatronics program enter industry, they bring with them the wide range of skills that local and regional employers are seeking.

They have experience with electricity and electronics, pneumatics and hydraulics, sensors and motors, and tool usage. Graduates will be versed in welding, machining, and other manufacturing processes, as well as troubleshooting as it relates to industrial equipment.

The degree includes health and safety instruction and an internship where students develop skills while applying their maintenance knowledge.

This breadth of knowledge and experience will prepare Mechatronics graduates for entry level employment at any facility that requires general maintenance and repair. This would include, but is not limited to, Manufacturing, Value Added Agriculture, or any business with automation.

For more information, contact

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Dean of Business & Technology
815-599-3604

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Industrial Technology Faculty
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FIRST SEMESTER 14 Sem. Hours

* BUSN	141	Business Communication (or ENGL 121 or COMM 101)	3	
	DRAF	110	Print Reading and Inspection	2
* ELET	179	Electronic Principles	3	
* INFT	180	Introduction to Information Systems	3	
* MATH	111	Technical Mathematics (or higher level)	3	

SECOND SEMESTER 15 Sem. Hours

* ELET	182	Devices and Circuits I	3	
* ELET	293	Introduction to Programmable Logic Controllers	3	
	MTEC	120	Equipment Maintenance Skills	3
* MTEC	151	Machine Processes	3	
* MTEC	263	General Hydraulics	3	

SUMMER 4 Sem. Hours

* OCED	290	Workplace Experience	4
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THIRD SEMESTER 15 Sem. Hours

* ELET	220	Motors and Controls	3
* ELET	297	Advanced Programmable Logic Controllers	3
* MTEC	291	Introduction to Automation	3
WELD	130	Introduction to Welding (or Weld 135)	3
	Elective		3

FOURTH SEMESTER 12 Sem. Hours

* MTEC	210	General Pneumatics	3
OCED	117	Occupational Safety	1
OCED	118	Health & Safety Topics	1
SPCH	191	Fundamentals of Speech Communications	3
* WELD	232	Intermediate Welding and Fabrication	3
	Elective		1

TOTAL HOURS = 60

* Course has a prerequisite.