

Associate in Applied Science

Mechatronics Engineering Technology

(A40350) Mechanical Track

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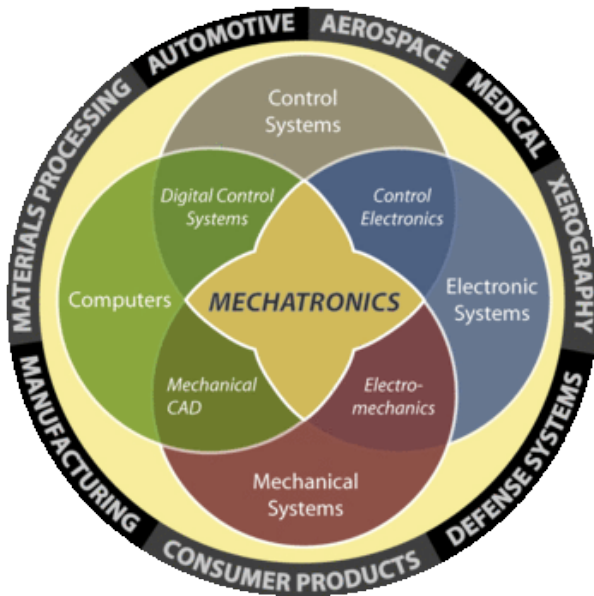
704.330.6545



Overview

This curriculum is designed to prepare individuals for jobs requiring electrical, mechanical, and computer skills necessary to work on complex systems found in manufacturing environments.

Course work includes basic electricity, fluid mechanics, mechanical drives, instrumentation, motor control, and courses specific to electrical, mechanical, and controls specialties.



Graduates should be qualified for the jobs such as industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, and upgrades of machinery and the associated control system. Graduates will be eligible to take the exam for the PMMI Mechatronics Certification and the Siemens Mechatronics Certification Level I & II

The Associate in Applied Science Degree– Mechatronics Engineering Technology is awarded by the College upon completion of this program. Mechanical Engineering Technology Program is accredited by the Accreditation Commission of ABET, <http://www.abet.org>

Fall First Semester

		Lecture	Lab	Credit
ENG 111	Expository Writing	3	0	3
MAT 121	Algebra/Trigonometry 1 or	2	2	3
or MAT 171	Pre-Calculus Algebra	3	0	3
EGR 125	Application Software for Technician	1	2	2
ELC 131	Circuit Analysis	3	3	4
	Humanities/Fine Arts Elective or	3	0	3
	or Behavioral&Social Sciences Elective	3	0	3
Total				15

Spring Second Semester

		Lecture	Lab	Credit
MAT 122	Algebra/Trigonometry 2 or	2	2	3
or MAT 172	Pre-Calculus Trigonometry	3	0	3
MAT 122	Algebra/Trigonometry II	3	4	3
PHY 131	Physics-Mechanics	3	2	4
ENG 114	Professional Research&Reporting	3	0	3
ELC 135	Electrical Machines	2	2	3
DFT 154	Intro to Solid Modeling	2	2	3
Total				16

Summer Third Semester

		Lecture	Lab	Credit
COM 110	Intro. to Communication	3	0	3
ISC 112	Industrial Safety	2	0	2
MEC 130	Mechanisms or	2	3	3
MEC 275	Engineering Mechanisms	2	2	3
MEC 130	Mechanisms	2	3	3
ELC 213	Instrumentation	3	2	4
MAC 234	Adv. Multi-Axis Mach	2	3	3
Total				15

Fall Fourth Semester

		Lecture	Lab	Credit
ELN 260	Program Logic Controllers	3	3	4
MEC 161	Manufacturing Processes I	3	0	3
MEC 180	Engineering Materials	2	3	3
EGR 250	Statics/Strength of Mater	4	3	5
Total				15

Spring Fifth Semester

		Lecture	Lab	Credit
MEC 265	Fluid Mechanics	2	2	3
ATR 112	Intro. to Automation	2	3	3
MEC 270	Machine Design	3	3	4
ECO 251	Prin.of Mircoeconomics	3	0	3
ISC 212	Metrology	1	2	2
Total				15

Total Program Credit Hours 76

Note: Online class sections available

ENG 111, 114; COM 110; ECO 251;EGR 125, ISC 112, MEC 161

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FIRST STEP TO ENROLL:

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