

Associate in Applied Science

Mechatronics Engineering Technology

(A40350) Mechanical Track

For more information call Jami Dale 704-330-6545

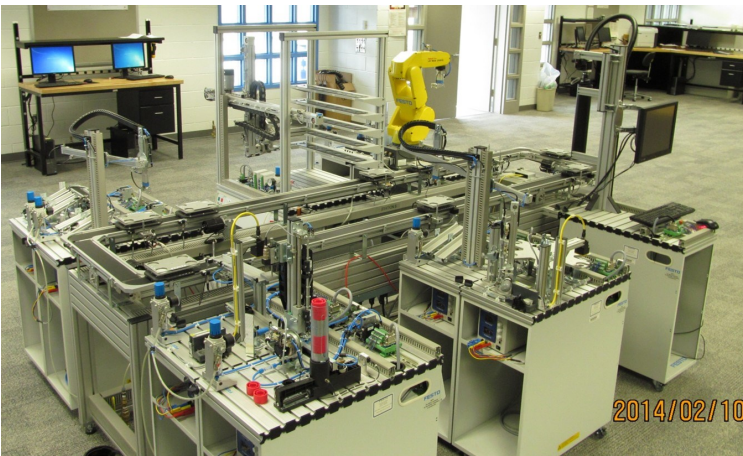
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Overview

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, or 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 exam for the PMMI Mechatronics Certificate for Introduction to Industrial Electricity and other certificate modules as they become available.

The Associate in Applied Science Degree– Mechatronics Engineering Technology is awarded by the College upon completion of this program.

www.cpcc.edu/getstarted

Engineering Technologies
Change your direction!

FIRST STEP TO ENROLL:

Call CPCC Jami Dale
704.330.6545

*CPCC is an Equal
Opportunity Institution.*



CENTRAL PIEDMONT COMMUNITY COLLEGE

Fall 1st Semester

			Lecture	Lab	Credit
ENG	111	Expository Writing	3	0	3
MAT	121	Algebra/Trigonometry 1	2	2	3
or	171	Pre-Calculus Algebra	3	0	4
EGR	125	App. Software for Technician	1	2	2
ELC	131	Circuit Analysis	3	3	4
ISC	112	Industrial Safety	2	0	2
					14

Spring 2nd Semester

			Lecture	Lab	Credit
ENG	114	Prof. Research & Reporting	3	0	3
or	112	Argument-Based Research			
or	113	Literature Based Research			
ELC	130	Adv. Motor Control	2	2	3
DFT	154	Intro to Solid Modeling	2	2	3
MAT	122	Algebra/Trigonometry 2	2	2	3
or	172	Pre-Calculus Trigonometry	3	0	3
PHY	131	Physics-Mechanics	3	2	4
or	151	College Physics I			
					16

Summer 3rd Third Semester

			Lecture	Lab	Credit
COM	110	Intro. to Communication	3	0	3
ECO	251	Prin. Of Microeconomics	3	0	3
ELC	213	Instrumentation	3	2	4
MAC	234	Adv. Multi-Axis Mach	2	3	3
Total					13

Fall 4th Semester

			Lecture	Lab	Credit
EGR	250	Statics/Strength of Mater	4	3	5
ISC	212	Metrology	1	2	2
ELN	260	Program Logic Controllers	3	3	4
MEC	130	Mechanisms	2	3	3
MEC	161	Manufacturing Processes I	3	0	3
Total					17

Spring 5th 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
MEC	180	Engineering Materials	2	3	3
Elective		Humanities/Fine Arts/ Behavioral/Social Sciences	3	0	3
Total					16

Total Program Credit Hours 76

Catalog Year 2015-2016