CENTRAL PIEDMONT COMMUNITY COLLEGE · ENGINEERING TECHNOLOGIES

Associate in Applied Science

Mechatronics Engineering Technology

Engineering Technologies

(A40350) Electrical Track

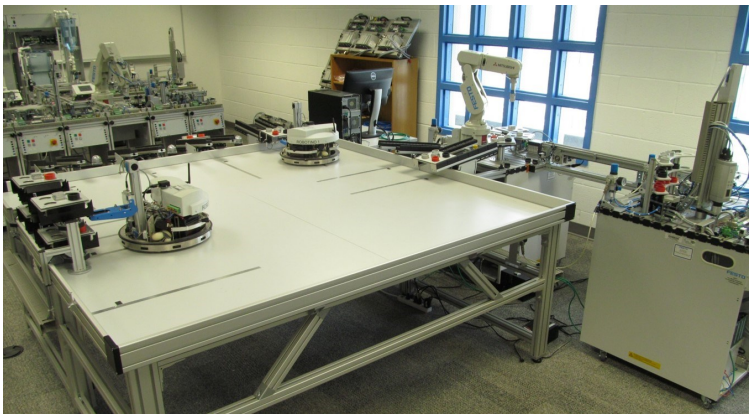
For more information call Program Chair Jami Dale 704-330-6545 jami.dale@cpcc.edu

Get There.

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.

Engineering Technologies
Change your direction!

FIRST STEP TO ENROLL:
Call CPCC Jami Dale
704.330. 6545
CPCC is an Equal Opportunity Institution.

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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	Precalculus Algebra	3	0	4
DFT	154	Intro to Solid Modeling	2	2	3
or EGR	120	Eng. and Design Graphics	2	2	3
ELC	131	Circuit Analysis I	3	3	4
EGR	125	Application Software for Technician	1	2	2
ISC	112	Industrial Safety	2	0	2
					17/18

Spring 2nd Semester			Lecture	Lab	Credit
ENG	114	Prof Research & Reporting or	3	0	3
or	112	Argument-Based Research or			
or	113	Literature Based Research			
ELC	135	Electrical Machines	2	2	3
MAT	122	Algebra/Trigonometry II	2	2	3
or	172	Precalculus Trigonometry	3	0	4
PHY	131	Physics-Mechanics	3	2	4
or	151	College Physics I			
					12/13

Summer 3rd Semester			Lecture	Lab	Credit
COM	110	Intro to Communication	3	0	3
ECO	251	Prin of Microeconomics	3	0	3
ELC	213	Instrumentation	2	2	4
Elective		Humanities/Fine Arts Elective	3	0	3
		Behavioral &Social Sciences Elective			13

Fall 4thSemester			Lecture	Lab	Credit
ELC	133	Circuit Analysis II	2	3	4
ELN	133	Digital Electronics	3	3	4
ELN	260	Program Logic Controllers	3	3	4
MEC	130	Mechanisms	2	3	3
					15

Spring 5th Semester			Lecture	Lab	Credit
ELC	136	Electrical Machines II	3	3	4
ELN	131	Analog Electronics I	3	3	4
MEC	265	Fluid Mechanics	2	2	3
ATR	112	Intro. to Automation	2	3	3
					14

Total program Credit hours 72
Catalog year 2015- 2016