MECHATRONIC ENGINEERING TECHNOLOGY

Associate in Applied Science | Dipolma | Certificate

The Mechatronic Engineering Technology curriculum is designed to prepare or upgrade individuals to obtain jobs in the manufacturing industry as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial and technology managers, or research technicians.

To learn more visit **www.piedmontcc.edu/mech**

More about MECHATRONIC ENGINEERING TECHNOLOGY

The Mechatronic Engineering Technology curriculum is designed to prepare or upgrade individuals to obtain jobs in the manufacturing industry as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial and technology managers, or research technicians. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing electronic and mechanical systems. Course work includes mathematics, natural sciences, engineering sciences and technology.

Students will learn multi-craft technical skills in blueprint reading, mechanical systems, electrical/electronic systems, hydraulics/pneumatics, automation, and includes various diagnostic and repair procedures. Practical application in the mechanical and electrical systems will be emphasized and advanced course work may be offered.

The Mechatronic Engineering Technology program strives to meet the demands of the global workforce therefore, students are provided with various levels of course work in the mechanical and electronic field.

Outlook for EMPLOYMENT

Upon completion of this curriculum, graduates should be able to plan, manage, and provide scientific research and professional and technical services including laboratory and testing services, research and development services and troubleshooting.

COURSES

Required Courses for Program	AAS	DIP	CERT
ACA 111 College Student Success *			
ACA 122 College Transfer Success *			
ATR 112 Intro to Automation			
BPR 115 ELC/Fluid Power Diagrams ****			
BPR 111 Blueprint Reading ****			
CIS 110 Intro to Computers			
COM 231 Public Speaking			
DFT 119 Basic CAD			
ELC 112 DC/AC Electricity			
ELC 117 Motors and Controls			
ELC 128 Intro to PLC's			
ELC 213 Instrumentation			
ELC 228 PLC Applications			
ELN 131 Analog Electronics I			
ENG 111 Writing and Inquiry			
ENG 231 American Literature I ***			
ENG 232 American Literature II ***			
HUM 110 Technology and Society **			
HUM 115 Critical Thinking **			
HYD 110 Hydraulics/Pneumatics			
ISC 112 Industrial Safety			
ISC 170 Problem Solving			
MAT 171 Pre-Calculus Algebra			
MEC 130 Mechanisms			
MNT 110 Intro to Maintenance			
PSY 150 General Psychology			
PHY 151 College Physics I			
Total Semester Hours Required for Degree	**71**	**48**	**18**

Courses with matching symbols indicate OR/AND requirements. Review back page or contact Student Development for more information.

AAS = Associate of Applied Science *DIP = Dipolma* *CERT = Certificate*

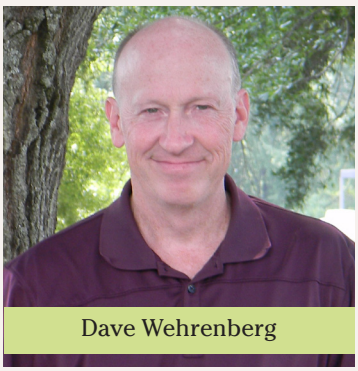
Denotes required for completion

MECHATRONIC ENGINEERING TECHNOLOGY

ASSOCIATE IN APPLIED SCIENCE | DIPLOMA | CERTIFICATE

Process for ADMISSIONS

- Submit a complete Application for Admission to the Office of Admissions.
- Submit official transcript(s) of high school education and all post-high school course work to the Office of Admissions if requested. GED scores or transcript of courses for the Adult High School Diploma may be submitted in lieu of the high school transcript.
- Complete the Admission Placement Test.
- Diploma and certificate admission requirements may vary. Contact the Admissions Office for details.



Dave Wehrenberg

Program CONTACTS

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Person County Campus - I115

Walter Montgomery, Dean
(336) 322-2258
walter.montgomery@piedmontcc.edu
Person County Campus - L119

Piedmont Community College

Person County Campus
1715 College Drive
Roxboro, NC 27573
(336) 599-1181

Caswell County Campus
331 Piedmont Drive
Yanceyville, NC 27379
(336) 694-5707

ASSOCIATE IN APPLIED SCIENCE

Suggested Course Sequence

Full-time Student

Course#		Course Name	CL.	LB.	CLIN.	CR.
FALL SEMESTER						
ACA	111	College Student Success ***OR***	1	0	0	1
ACA	122	College Transfer Success	0	2	0	1
MAT	171	Precalculus Algebra	3	2	0	4
ENG	111	Writing and Inquiry	3	0	0	3
MNT	110	Intro. To Maintenance	1	3	0	2
ATR	112	Intro. To Automation	2	3	0	3
CIS	110	Intro. To Computers	2	2	0	3
			11-12	**10-12**	**0**	**16**
SPRING SEMESTER						
PHY	151	College Physics I	3	2	0	4
COM	231	Public Speaking	3	0	0	3
ELC	112	DC/AC Electricity	3	6	0	5
DFT	119	Basic CAD	1	2	0	2
ISC	112	Industrial Safety	2	0	0	2
BPR	111	Blueprint Reading ***OR***	1	2	0	2
BPR	115	ELC/Fluid Power Diagrams	1	2	0	2
			13	**12**	**0**	**18**
SUMMER SEMESTER						
ELC	117	Motors and Controls	2	6	0	4
			2	**6**	**0**	**4**
FALL SEMESTER						
ISC	170	Problem Solving	3	0	0	3
ELC	128	Intro to PLC's	2	3	0	3
ISC	130	Intro to Quality Control	3	0	0	3
ELC	213	Instrumentation	3	2	0	4
HUM	110	Technology and Society ***OR***	3	0	0	3
HUM	115	Critical Thinking ***OR***	3	0	0	3
ENG	231	American Literature I ***OR***	3	0	0	3
ENG	232	American Literature II	3	0	0	3
			14	**5**	**0**	**16**
SPRING SEMESTER						
HYD	110	Hydraulics	2	2	0	3
MEC	130	Mechanisms	2	2	0	3
ELN	131	Analog Electronics	2	3	0	4
ELC	228	PLC Applications	2	6	0	4
*SOC		Social Science Elective	3	0	0	3
		(ECO 151, ECO 251, PSY 150, SOC 210)	**11**	**13**	**0**	**17**
			51-52	**46-48**	**0**	**71**

TOTAL SEMESTER HOURS REQUIRED FOR DEGREE: 71