



MECHATRONICS ENGINEERING TECHNOLOGY

Associate in Applied Science | Diploma | Certificate

The Mechatronics 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 MECHATRONICS ENGINEERING TECHNOLOGY

The Mechatronics 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 Mechatronics 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	✓	✓	
HUM	110	Technology and Society **	✓		
HUM	115	Critical Thinking **	✓		
HYD	110	Hydraulics/Pneumatics	✓	✓	
ISC	112	Industrial Safety	✓	✓	
ISC	130	Intro to Quality Control	✓		
ISC	170	Problem Solving	✓	✓	
MAT	171	Pre-Calculus Algebra	✓	✓	
MEC	130	Mechanisms	✓	✓	✓
MNT	110	Intro to Maintenance	✓	✓	✓
PHY	151	College Physics I	✓	✓	
SOC		Social Science Elective	✓		
Required Courses for Program			71	48	18

AAS = Associate of Applied Science

DIP = Diploma

CERT = Certificate

✓ Denotes required for degree completion

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

MECHATRONICS 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.

Program CONTACTS

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(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	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 (ECO 151, ECO 251, PSY 150, SOC 210)	3	0	0	3
		11	13	0	17
		51-52	46-48	0	71

TOTAL SEMESTER HOURS REQUIRED FOR DEGREE: 71