Awards

Associate Degree: Mechatronics Engineering Technology (A40350)
Length of Program: 5 Semesters
Prerequisite: High School Diploma, Placement Test Equivalent

Diploma: NA
Length of Program:
Prerequisite:

Certificate: NA
Length of Program:
Prerequisite:

Program Information Contact

Curriculum Chairperson
Darius Wilkins
(910) 678-1064
Advanced Technology Center, Room 244-C
wilkinsd@faytechcc.edu
www.faytechcc.edu

Rev. 02/17/26

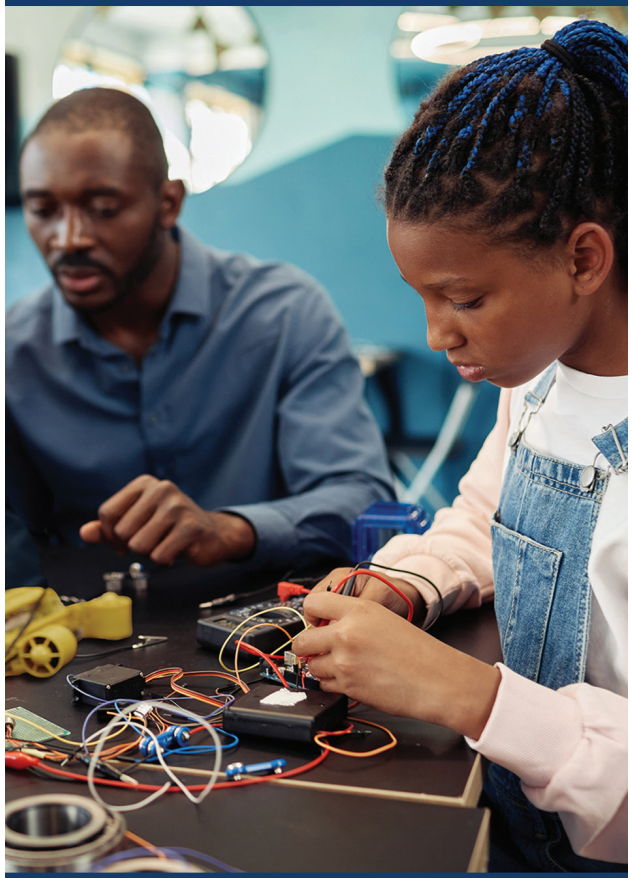
Other Important Information

Application Deadlines: The program is designed for a student to enter during the fall semester. A student may enter at other times with approval of the Department Chairperson.

Scholarship/Title IV Financial Aid/VA Services: Scholarships/Title IV Financial Aid/Veteran's assistance may be available for associate degrees. Certificates and diplomas that fall under this program/area of study **may or may not be eligible** for Scholarship/Title IV Financial Aid/VA Services. Please contact the Financial Aid Office, Student Center, Room 2; Telephone (910) 678-8242. Veterans Services, General Classroom Building, Room 202, (910) 678-8580.

FTCC
FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE
2201 Hull Road
PO Box 35236
Fayetteville, NC 28303
(910) 678-8400

MECHATRONICS ENGINEERING TECHNOLOGY



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PROGRAM FACT SHEET
MECHATRONICS ENGINEERING TECHNOLOGY A40350

The Mechatronics Engineering Technology curriculum is designed to prepare students to use basic engineering principles and technical skills in developing and testing automated, servo-mechanical, and other electromechanical systems. This includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures.

Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement, and control systems, and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry examinations.

FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE
MECHATRONICS ENGINEERING TECHNOLOGY (A40350)
Effective: Fall 2025
Revised: 02/21/25

Length: 5 Semesters
Prerequisite: High School Diploma, Placement Test Equivalent
Award: Associate in Applied Science

FALL SEMESTER 1

Prefix	No.	Title	Class	Lab	Clinical	Credit
ACA	120	Career Assessment	1	0	0	1
or						
ACA	122	College Transfer Success	0	2	0	1
CIS	110	Introduction to Computers	2	2	0	3
ELC	112	DC/AC Electricity	3	6	0	5
ELC	128	Intro to PLC	2	3	0	3
*ENG	110	Freshman Composition	3	0	0	3
or						
ENG	111	Writing & Inquiry	3	0	0	3
		TOTALS	**10**	**11**	**0**	**15**

SPRING SEMESTER 1

Prefix	No.	Title	Class	Lab	Clinical	Credit
ATR	112	Intro to Automation	2	3	0	3
ELC	117	Motors & Controls	2	6	0	4
ELC	228	PLC Applications	2	6	0	4
DFT	170	Engineering Graphics	2	2	0	3
ISC	112	Industrial Safety	2	0	0	2
		TOTALS	**10**	**17**	**0**	**16**

SUMMER SEMESTER 1

Prefix	No.	Title	Class	Lab	Clinical	Credit
BPR	115	Elc/Fluid Power Diagrams	1	2	0	2
HYD	110	Hydraulics/Pneumatics I	2	3	0	3
		Soc/Behav Science Elective	3	0	0	3
		TOTALS	**6**	**5**	**0**	**8**

FALL SEMESTER 2

Prefix	No.	Title	Class	Lab	Clinical	Credit
ATR	212	Industrial Robots	2	3	0	3
ELC	213	Instrumentation	3	2	0	4
MEC	130	Mechanisms	2	2	0	3
MAT	171	Precalculus Algebra	3	2	0	4
		TOTALS	**10**	**9**	**0**	**14**

SPRING SEMESTER 2

Prefix	No.	Title	Class	Lab	Clinical	Credit
COM	120	Intro Interpersonal Com	3	0	0	3
or						
COM	231	Public Speaking	3	0	0	3
ELC	215	Electrical Maintenance	2	3	0	3
ISC	220	Lean Manufacturing	2	2	0	3
PHY	151	College Physics I	3	2	0	4
		Humanities/Fine Arts Elective	3	0	0	3
		TOTALS	**13**	**7**	**0**	**16**

TOTAL REQUIRED CREDITS.....69

Work-Based Learning Option: NA

***Note**: Students **may not** take an introductory foreign language to fultill the Humanities/Fine Arts requirements.

***Note:** ENG-110 is not transferable.

Refer to the FTCC website for the most current information. Go to www.faytechcc.edu and click on College Catalog.