Awards

Associate Degree: Length of Program: Prerequisite:	Industrial Systems Technology (A50240) 5 Semesters High School Diploma, Placement Test Equivalent
Diploma: Length of Program: Prerequisite:	Not Applicable
Certificate: Length of Program: Prerequisite:	Electrical PLC Applications Certificate (C50240C1) 2 Semesters High School Diploma, Placement Test Eqivalent
Certificate: Length of Program: Prerequisite:	Mechanical Maintenance Certificate (C50240C2) 2 Semesters High School Diploma, Placement Test Eqivalent
Certificate: Length of Program: Prerequisite:	Basic Mechanical Maintenance Certificate (C50240H1) 2 Semesters Placement Test Eqivalent

Other Important Information

Application Deadlines: The program is designed for a student to enter during the fall or spring semesters. 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.



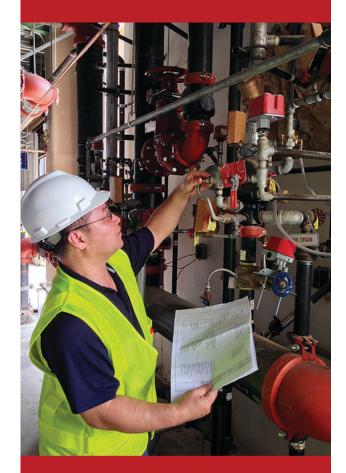
Program Information Contact

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



2201 Hull Road P.O. Box 35236 Fayetteville, NC 28303 (910) 678-8400

INDUSTRIAL SYSTEMS TECHNOLOGY



www.faytechcc.edu

Fayetteville Technical Community College

910-678-8400 P.O. Box 35236 • 2201 Hull Road Fayetteville, NC 28303

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PROGRAM FACT SHEET INDUSTRIAL SYSTEMS TECHNOLOGY (A50240)



The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to safely service, maintain, repair, or install equipment. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial systems.

Students will learn multi-craft technical skills in print reading, mechanical systems maintenance, electricity, hydraulics/pneumatics, welding, machining or fabrication, and includes various diagnostic and repair procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of this curriculum, graduates should be able to individually, or with a team, safely install, inspect, diagnose, repair, and maintain industrial process and support equipment. Students will also be encouraged to develop their skills as life-long learners.

FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE INDUSTRIAL SYSTEMS TECHNOLOGY (A50240) Effective: Fall 2025 Revised: 02/21/25

Length: 5 Semesters Prerequisite: High School Diploma, Placement Test Credit 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 and Inquiry	3	0	0	3	
		Totals	10	11	0	15	
Spring Semester 1							
Prefix	No.	Title	Class	Lab	Clinical	Credit	

Prefix	No.	Title	Class	Lab	Clinical	Credit
ATR	212	Industrial Robots	2	3	0	3
ELC	117	Motors and 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		
		Social/Behavioral Sci Elec	t 3	0	0	3		
		Totals	6	5	0	8		
Fall S	Fall Semester 2							
Prefix	No.	Title	Class	Lab	Clinical	Credit		
ATAR	212	Industrial Robots	2	3	0	3		
MEC	130	Mechanisms	2	2	0	3		
MAT	110	Math Measure & Literacy	2	2	0	3		
or		, ,						
PHY	121	Applied Physics I	3	2	0	4		
WLD	131	GTAW (TIG) Plate	2	6	0	4		

Spring Semester 2

Sprin	y Sen	lester z				
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
MAC	141	Machining Applications I	2	6	0	4
MNT	230	Pumps & Piping Systems	1	3	0	2
		Humanities/Fine Arts Elect	3	0	0	3
		Totals	11	12	0	15

TOTAL REQUIRED CREDITS... 67

Work-Based Learning Option: NA

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

*Note: ENG-110 is not transferable

