

Awards

Associate Degree: Industrial Systems Technology (A50240)
Length of Program: 5 Semesters
Prerequisite: High School Diploma, Placement Test Equivalent

Diploma: Not Applicable
Length of Program:
Prerequisite:

Certificate: Electrical PLC Applications Certificate (C50240C1)
Length of Program: 2 Semesters
Prerequisite: High School Diploma, Placement Test Equivalent

Certificate: Mechanical Maintenance Certificate (C50240C2)
Length of Program: 2 Semesters
Prerequisite: High School Diploma, Placement Test Equivalent

Certificate: Basic Mechanical Maintenance Certificate (C50240H1)
Length of Program: 2 Semesters
Prerequisite: Placement Test Equivalent

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

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INDUSTRIAL SYSTEMS TECHNOLOGY



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Community College*

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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
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 Elect	3	0	0	3
Totals			6	5	0	8

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
Totals			8	13	0	13

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
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

