

## 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

## Program Information Contact

### Curriculum Chairperson

Darius Wilkins  
 (910) 678-1064

Advanced Technology Center, Room 244-C  
 wilkinsd@faytechcc.edu  
 www.faytechcc.edu

Rev. 12/09/22

## 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.



# FTCC

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### SOUTHERN ASSOCIATION OF COLLEGES & SCHOOLS COMMISSION ON COLLEGES

Fayetteville Technical Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate degrees, diplomas, and certificates. Degree-granting institutions also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Fayetteville Technical Community College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website ([www.sacscoc.org](http://www.sacscoc.org)).

## INDUSTRIAL SYSTEMS TECHNOLOGY



[www.faytechcc.edu](http://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 2023

Revised: 12/09/22

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
<b>Totals</b>			<b>7</b>	<b>16</b>	<b>0</b>	<b>14</b>

### 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
<b>Totals</b>			<b>10</b>	<b>17</b>	<b>0</b>	<b>16</b>

### 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
<b>Totals</b>			<b>6</b>	<b>5</b>	<b>0</b>	<b>8</b>

### 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
<b>Totals</b>			<b>8</b>	<b>13</b>	<b>0</b>	<b>13</b>

### 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
<b>Totals</b>			<b>11</b>	<b>12</b>	<b>0</b>	<b>15</b>

**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

