



# INDUSTRIAL SYSTEMS TECHNOLOGY

Associate in Applied Science | Diploma | Certificate

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.

To learn more visit [www.piedmontcc.edu/ist](http://www.piedmontcc.edu/ist)

## More about INDUSTRIAL SYSTEMS TECHNOLOGY

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 blueprint 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 advanced course work may be offered.

The Industrial Systems Technology program strives to meet the demands of the global workforce therefore, students are provided with various levels of course work in the industrial systems field.

## Outlook for EMPLOYMENT

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.

**Mechanical Technicians  
Maintenance Technicians**

## COURSES

### Required Courses for Program

	AAS	DIP	CER
ACA 111 College Student Success <b>OR</b>	✓		
ACA 122 College Transfer Success	✓		
BPR 111 Blueprint Reading	✓	✓	✓
CIS 110 Intro. To Computers	✓	✓	
COM 231 Public Speaking	✓		
DFT 119 Basic CAD	✓		
ELC 112 DC/AC Electricity	✓	✓	
ELC 113 Basic Wiring	✓	✓	
ELC 117 Motors and Controls	✓	✓	
ELC 128 Intro. To PLC	✓	✓	
ENG 111 Writing and Inquiry	✓	✓	
HUM Elective	✓		
HYD 110 Hydraulics	✓	✓	✓
HYD 121 Hydraulics 2	✓		
ISC 112 Industrial Safety	✓	✓	✓
ISC 130 Intro. To Quality Control	✓	✓	
ISC 170 Problem Solving Skills	✓		✓
MAT 143 Quantitative Literacy	✓	✓	
MEC 111 Machine Processes	✓	✓	
MEC 130 Mechanisms	✓	✓	✓
MNT 110 Intro. To Maintenance	✓	✓	✓
PHY 110 Conceptual Physics	✓	✓	
WLD 112 Basic Welding	✓	✓	
WLD 121 GMAW (Mig) <b>OR</b>	✓		
WLD 131 GMAW (Tig)	✓		
XXX Soc. Science Elective	✓		
<b>Total Semester Hours Required for Degree</b>	<b>69</b>	<b>48</b>	<b>15</b>

AAS = Associate in Applied Science

DIP = Diploma

CER= Certificate (Basic)

✓ Denotes required for degree completion

# INDUSTRIAL SYSTEMS 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. Office 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 CONTACT

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Person County Campus - I115

Walter Montgomery, Dean  
(336) 322-2258  
walter.montgomery@piedmontcc.edu  
Person County Campus - L119



**Person County Campus**  
1715 College Drive  
Roxboro, NC 27573  
(336) 599-1181



**Caswell County Campus**  
331 Piedmont Drive  
Yanceyville, NC 27379  
(336) 694-5707

## ASSOCIATE OF APPLIED SCIENCE Suggested Course Sequence Full-time Student

Course#	Course Name	CL.	LB.	CLIN.	CR.
<b>FALL SEMESTER</b>					
ACA 111	College Student Success <i>OR</i>	1	0	0	1
ACA 122	College Transfer Success	0	2	0	1
MAT 143	Quantitative Literacy	2	2	0	3
ENG 111	Writing and Inquiry	3	0	0	3
MNT 110	Intro. To Maintenance	1	3	0	2
MEC 111	Machine Processes	1	4	0	3
HUM	Elective	3	0	0	3
		<b>10-11</b>	<b>9-11</b>	<b>0</b>	<b>15</b>

<b>SPRING SEMESTER</b>					
PHY 110	Conceptual Physics	3	0	0	3
COM 231	Public Speaking	3	0	0	3
HYD 110	Hydraulics	2	2	0	3
MEC 130	Mechanisms	2	2	0	3
CIS 110	Intro. To Computers	2	3	0	3
		<b>12</b>	<b>7</b>	<b>0</b>	<b>15</b>

<b>SUMMER SEMESTER</b>					
ELC 117	Motors and Controls	2	6	0	4
WLD 112	Basic Welding	1	3	0	2
		<b>3</b>	<b>9</b>	<b>0</b>	<b>6</b>

<b>FALL SEMESTER</b>					
ELC 113	Basic Wiring	2	6	0	4
ISC 170	Problem Solving Skills	3	0	0	3
ELC 128	Intro. To PLC	2	3	0	3
ISC 130	Intro. To Quality Control	3	0	0	3
BPR 111	Blueprint Reading	1	2	0	2
ISC 112	Industrial Safety	2	0	0	2
		<b>13</b>	<b>11</b>	<b>0</b>	<b>17</b>

<b>SPRING SEMESTER</b>					
HYD 121	Hydraulics 2	1	3	0	2
ELC 112	DC/AC Electricity	3	6	0	5
DFT 119	Basic CAD	1	2	0	2
WLD 121	GMAW (Mig) <i>OR</i>	2	6	0	4
WLD 131	GMAW (Tig)	2	6	0	4
XXX	Soc. Science Elective	3	0	0	3
		<b>10</b>	<b>17</b>	<b>0</b>	<b>16</b>
		<b>48-49</b>	<b>53-55</b>	<b>0</b>	<b>69</b>

**TOTAL SEMESTER HOURS REQUIRED FOR ASSOCIATES: 69**