INSTRUMENTATION AND CONTROL TECHNOLOGY

Associate in Applied Science
Checklist

- View the General Education Matrix for a complete list of qualifying courses.
- Fulfill the College Degree Requirements in conjunction with this degree plan.
- Consult an Academic Advisor to ensure all academic requirements are met.

Summary

Prescribed Program	58
General Education	16
Digital Literacy	
Total Credits	**74**

Degree Plan
Prescribed Program
1st Year

Choose one of the following options:

Journeyman Electrician License [1]	

OR

Transfer in Electrician coursework completed through a regionally accredited institution.	

OR

ELEC 100	Direct Current Analysis	4
ELEC 100L	Direct Current Analysis Lab	1
ELEC 118	Solid State Devices I	4
ELEC 118L	Solid State Devices I Lab	1
ELEC 114	Digital Electronics I	3
ELEC 114L	Digital Electronics I Lab	1
ELEC 130	Active Devices	4
ELEC 130L	Active Devices Lab	1
ELEC 120	AC Analysis	4
ELEC 120L	AC Analysis Lab	1
ELEC 115	Digital Electronics II	3
ELEC 115L	Digital Electronics II Lab	1
Credits Subtotal		**28**

2nd Year

ICTL 205	Mechanical Practices	4
ICTL 205L	Mechanical Practices Lab	1
ICTL 215	Instrumentation Drawings and Documents	4
ICTL 215L	Instrument Drawings and Documents Lab	1
ICTL 225	Input and Output Devices	4
ICTL 225L	Input and Output Devices Lab	1
ICTL 235	Motors and Controllers	4
ICTL 235L	Motors and Controllers Lab	1
ICTL 245	Controls	4
ICTL 245L	Controls Lab	1
ICTL 255	Automation Overview	4
ICTL 255L	Automation Overview Lab	1
Credits Subtotal		**30**

Prescribed Program Total Credits   **58**

General Education

Written or Oral Communications

ENGL 110	College Composition I	3
Select one of the following:		3
COMM 110	Fundamentals of Public Speaking	
ENGL 120	College Composition II	
ENGL 125	Introduction to Professional Writing	
Credits Subtotal		**6**

Arts & Humanities/Social & Behavioral Sciences

Select one of the following recommended courses:		3
HIST 103	United States to 1877	
ECON 201	Principles of Microeconomics	
PSYC 111	Introduction to Psychology	
SOC 110	Introduction to Sociology	
Credits Subtotal		**3**

Business, Math, Science, & Technology (Two Areas of Study)

CIS 164	Networking Fundamentals I (Required)	4
Select one of the following recommended courses:		3
MATH 137	Applied Algebra	
MATH 210	Elementary Statistics	
Credits Subtotal		**7**

General Education Total Credits   **16**

Digital Literacy

Select one of the following:		
ENGL 110	College Composition I	
NDUS Institution Approved Training Course		
NDUS Institution Designated Digital Literacy Course		

Footnotes

[1]

Program must be approved through the Prior Learning Process.