

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

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Program must be approved through the Prior Learning Process.