

A major of 49 units is required for the certificate.

Required core courses (34 units):

COURSE	TITLE	UNITS
<input type="checkbox"/> CS 111	Fundamentals of Programming 1	4
<input type="checkbox"/> EL 118	Fundamentals of DC and AC Circuits Analysis	3
<input type="checkbox"/> EL 119	Fundamentals of DC and AC Circuits Analysis Laboratory	2
<input type="checkbox"/> EL 125	Digital Devices and Circuits	3
<input type="checkbox"/> EL 126	Digital Devices and Circuits Lab	2
<input type="checkbox"/> EL 104	Introduction to Robotics and Mechatronics	3
or		
<input type="checkbox"/> CEL 104	Introduction to Robotics and Mechatronics	3
or		
<input type="checkbox"/> ET 104	Introduction to Robotics and Mechatronics	3
<input type="checkbox"/> EL 122	Electronic Devices and Circuits	3
<input type="checkbox"/> EL 123	Electronic Devices and Circuits Laboratory	2
<input type="checkbox"/> ET 140	Engineering Drawing	3
<input type="checkbox"/> EL 146	Electronic Product Design, Fabrication and Documentation	2
<input type="checkbox"/> MT 109	Survey of Machining and Manufacturing	4
<input type="checkbox"/> MT 117	Print Reading and Interpretation	3
or		
<input type="checkbox"/> WLDT 306	Layout and Fabrication Interpretation	3

Plus a minimum of 15 units selected from the following:

COURSE	TITLE	UNITS
<input type="checkbox"/> EL 105	PC Preventive Maintenance and Upgrading	3
or		
<input type="checkbox"/> EL 320	A+ Certification	2
<input type="checkbox"/> EL 106	Networking Essentials 1	3
<input type="checkbox"/> EL 107	Networking Essentials 2	3
<input type="checkbox"/> EL 135	Electronic Measurement and Instrumentation	3
<input type="checkbox"/> EL 136	Electronics Measurement and Instrumentation Laboratory	2
<input type="checkbox"/> EL 128	Introduction to Renewable Energy	3

or	<input type="checkbox"/> CEL 128	Introduction to Renewable Energy	3
or	<input type="checkbox"/> ET 128	Intro to Renewable Energy	3
	<input type="checkbox"/> EL 131	Programmable Logic Controllers and Control Design	3
or	<input type="checkbox"/> CEL 131	Programmable Logic Controllers and Control Design	3
or	<input type="checkbox"/> ET 131	Programmable Logic Controllers and Control Design	3
	<input type="checkbox"/> EL 133	Mechatronic Systems 1	3
or	<input type="checkbox"/> CEL 133	Mechatronic Systems 1	3
or	<input type="checkbox"/> ET 133	Mechatronic Systems 1	3
	<input type="checkbox"/> EL 135	Electronic Measurement and Instrumentation	3
	<input type="checkbox"/> EL 136	Electronics Measurement and Instrumentation Laboratory	2
	<input type="checkbox"/> EL 139	Electrical Power, Motors, and Controls	3
or	<input type="checkbox"/> CEL 139	Electrical Power, Motors, and Controls	3
or	<input type="checkbox"/> ET 139	Electrical Power, Motors, and Controls	3
	<input type="checkbox"/> EL 162	Fluid Power And Control	2
or	<input type="checkbox"/> CEL 162	Fluid Power and Control	2
or	<input type="checkbox"/> ET 162	Fluid Power and Control	2
	<input type="checkbox"/> ET 100	Computer Aided Drafting and Design	3
	<input type="checkbox"/> PHYS 100	Concepts In Physics	3
or	<input type="checkbox"/> PHYS 100	Concepts In Physics	3
or	<input type="checkbox"/> PHSC 111	Matter, Energy and Molecules	4
	<input type="checkbox"/> WLDT 106	Beginning Welding	3
	<input type="checkbox"/> WLDT 107	Advanced Welding	3
	<input type="checkbox"/> WLDT 307	G.M.A.W. Welding	3
or	<input type="checkbox"/> WLDT 308	T.I.G. Welding	3
	<input type="checkbox"/> WLDT 315	Metal Fabrication	4

Suggested Course Sequence

The "Suggested Course Sequence" is an example of how to complete the requirements plus any additional general education that may be needed. If you would like to create a personalized Student Education Plan (SEP), schedule a meeting with a counselor.

SUMMER SEMESTER (YEAR 1)

Course	Title	Units
<input type="checkbox"/> ET 100	Computer Aided Drafting and Design	3
Total Units		3
Tasks		

FALL SEMESTER (YEAR 1)

Course	Title	Units
<input type="checkbox"/> ET 104	Introduction to Robotics and Mechatronics	3
<input type="checkbox"/> EL 118	Fundamentals of DC and AC Circuits Analysis	3
<input type="checkbox"/> EL 119	Fundamentals of DC and AC Circuits Analysis Laboratory	2
<input type="checkbox"/> ET 140	Engineering Drawing	3
<input type="checkbox"/> elective	major elective group 1	3
Total Units		14

Tasks:

- Complete Career Exploration
- Meet with Counselor (SEP)
- Visit library & tutoring
- Review Financial Aid Requirements
- Apply AHC Scholarship

SPRING SEMESTER (YEAR 1)

Course	Title	Units
<input type="checkbox"/> EL 122	Electronic Devices and Circuits	3
<input type="checkbox"/> EL 123	Electronic Devices and Circuits Laboratory	2
<input type="checkbox"/> MT 117	Print Reading and Interpretation	3
<input type="checkbox"/> elective	major elective group 2	3
Total Units		11

Tasks:

- Set up Jobspeaker
- Attend Career Exploration Day
- FAFSA or Dream Act due March 2
- Apply AHC Scholarship

SUMMER SEMESTER (YEAR 2)

Course	Title	Units
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<input type="checkbox"/> CS 102	Introduction to Computing with HTML	3
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Total Units 3

Tasks

FALL SEMESTER (YEAR 2)

Course	Title	Units
<input type="checkbox"/> CS 111	Fundamentals of Programming 1	4
<input type="checkbox"/> EL 125	Digital Devices and Circuits	3
<input type="checkbox"/> EL 126	Digital Devices and Circuits Lab	2
<input type="checkbox"/> elective	major elective group 3	3
Total Units		12

Tasks:

- Meet with a Counselor
- Develop Resume at Career Center
- Review Financial Aid Requirements
- Apply for AHC Scholarship

SPRING SEMESTER (YEAR 2)

Course	Title	Units
<input type="checkbox"/> EL 146	Electronic Product Design, Fabrication and Documentation	2
<input type="checkbox"/> MT 109	Survey of Machining and Manufacturing	4
<input type="checkbox"/> elective	major elective group 4	3
<input type="checkbox"/> elective	major elective group 5	3
Total Units		12

Tasks:

- Apply for Certificate with Counseling
- Utilize Job Search Resources
- Complete FAFSA or Dream Act by March 2
- Attend Job Fair/Career Exploration Day