

A major of 49 units is required for the degree.

Required core courses (34 units):

COURSE	TITLE	UNITS
<input type="checkbox"/> CS 111	Fundamentals of Programming 1	4
<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 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 122	Electronic Devices and Circuits	3
<input type="checkbox"/> EL 123	Electronic Devices and Circuits 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"/> MT 117	Print Reading and Interpretation	3
or		
<input type="checkbox"/> WLDT 306	Layout and Fabrication Interpretation	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"/> ET 140	Engineering Drawing	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 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 110	Introductory 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		

- FAFSA or Dream Act due March 2
- Apply AHC Scholarship

FALL SEMESTER (YEAR 1)

Course	Title	Units
<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"/> ET 104	Introduction to Robotics and Mechatronics	3
<input type="checkbox"/> AHC GE Req	Area 2: Mathematical Concepts and Quantitative Reasoning	3-5
<input type="checkbox"/> AHC Grad Req	Dance or Physical Activity	.5-3
Total Units		13.5-19

Tasks:

- Complete Career Exploration
- Meet with Counselor (SEP)
- Visit library and 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"/> ENGL 101	Freshman Composition: Exposition	4
<input type="checkbox"/> MT 117	Print Reading and Interpretation	3
<input type="checkbox"/> Elective	Major elective group 1	2-4
Total Units		17-19

Tasks:

- Set up Jobspeaker
- Attend Career Exploration Day



Computer Networking and Electronics

Technology: Mechatronics Associate in Science

FALL SEMESTER (YEAR 2)

Course	Title	Units
<input type="checkbox"/> EL 125	Digital Devices and Circuits	3
<input type="checkbox"/> EL 126	Digital Devices and Circuits Lab	2
<input type="checkbox"/> PHSC 111	Matter, Energy and Molecules	4
<input type="checkbox"/> AHC GE Req	Area 6: Ethnic Studies	3
<input type="checkbox"/> AHC GE REQ	Area 3: Arts and Humanities	3
<input type="checkbox"/> AHC GE REQ	Area 7: Living Skills	3
<input type="checkbox"/> AHC GE REQ	Area 4A: Social and Behavioral Sciences	3
Total Units		18

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"/> CS 111	Fundamentals of Programming 1	4
<input type="checkbox"/> MT 109	Survey of Machining and Manufacturing	4
<input type="checkbox"/> EL 146	Electronic Product Design, Fabrication and Documentation	2
<input type="checkbox"/> elective	major elective group 2	2-4
<input type="checkbox"/> elective	major elective group 3	2-4
<input type="checkbox"/> AHC GE REQ	Area 4B: United States History and Government	3
Total Units		17-21

Tasks:

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