

Program Requirements:

"Program Requirements" specify the courses required for this program. See suggested course sequence for additional information.

A major of 49 units is required for the associate in science degree and certificate.

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 125	Digital Devices and Circuits	3
<input type="checkbox"/> EL 122	Electronic Devices and Circuits	3
<input type="checkbox"/> EL 126	Digital Devices and Circuits Lab	2
<input type="checkbox"/> EL 123	Electronic Devices and Circuits Laboratory	2
<input type="checkbox"/> EL 146	Electronic Product Design, Fabrication and Documentation	2
<input type="checkbox"/> ET 140	Engineering Drawing	3
<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 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		



Engineering Technology w/Emphasis in Mechatronics Associate in Science

<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

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 4A: Social and Behavioral Sciences	3
<input type="checkbox"/> AHC GE REQ	Area 1B: Oral Comm. and Critical Thinking	3
<input type="checkbox"/> AHC GE Req	Area 6: Ethnic Studies	3
Total Units		18

Tasks:

- Meet with a Transfer 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"/> 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 2	3
<input type="checkbox"/> elective	major elective group 3	3
<input type="checkbox"/> AHC GE REQ	Area 4B:United States History and Government	3
Total Units		19

Tasks:

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