

Electrical Engineering Technology (A40180)

Degree Type

Associate in Applied Science

Credential Number

A40180

General Education Requirements

Communication

Take 2 Groups

Group 1 - Take 3 credits from

Item #	Title	Credits
ENG 110	Freshman Composition	3
ENG 111	Writing and Inquiry	3

Group 2 - Take 3 credits from

Item #	Title	Credits
COM 110	Introduction to Communication	3
COM 120	Intro Interpersonal Com	3
COM 231	Public Speaking	3
ENG 112	Writing/Research in the Disc	3

Humanities/Fine Arts

Take 3 credits from

Item #	Title	Credits
ART 111	Art Appreciation	3
ART 114	Art History Survey I	3
ART 115	Art History Survey II	3
PHI 240	Introduction to Ethics	3
REL 110	World Religions	3

Social/Behavioral Sciences

Take 3 credits from

Item #	Title	Credits
HIS 131	American History I	3
HIS 132	American History II	3
POL 120	American Government	3
PSY 118	Interpersonal Psychology	3
PSY 150	General Psychology	3
SOC 210	Introduction to Sociology	3

Natural Sciences/Math

Take 3 credits from

Item #	Title	Credits
MAT 110	Math Measurement & Literacy	3
MAT 121	Algebra/Trigonometry I	3
MAT 171	Precalculus Algebra	4

Major Requirements

Analog

Take 4 credits from

Item #	Title	Credits
ELN 131	Analog Electronics I	4

Circuits

Take 4 credits from

Item #	Title	Credits
ELC 131	Circuit Analysis I	4

Digital

Take 4 credits from

Item #	Title	Credits
ELN 133	Digital Electronics	4

Electrical Engineering Technology

Take 2 Groups

Group 1 - Take 3 credits from

Item #	Title	Credits
ELC 128	Intro to PLC	3

Group 2 - Take 11 credits from

Item #	Title	Credits
ELC 117	Motors and Controls	4
ELC 120	Intro to Wiring	3
ELC 213	Instrumentation	4
ELN 232	Intro to Microprocessors	4

Other Major Requirements

Take 24 credit from

Item #	Title	Credits
ACA 115	Success & Study Skills	1
ACA 122	College Transfer Success	1
AHR 112	Heating Technology	4
AHR 113	Comfort Cooling	4
AHR 160	Refrigerant Certification	1
ATR 112	Intro to Automation	3
ATR 115	Introduction to Mechatronics	4
CIS 110	Introduction to Computers	3
CSC 134	C++ Programming	3
DFT 111	Technical Drafting I	2
DFT 111A	Technical Drafting I Lab	1
DFT 119	Basic CAD	2
DFT 151	CAD 1	3
ELC 118	National Electrical Code	2
ELC 125	Diagrams and Schematics	2
ELC 131A	Circuit Analysis I Lab	1
ELC 220	Photovoltaic Sys Tech	3
ELC 231	Electric Power Systems	4
ELN 232	Intro to Microprocessors	4
HYD 110	Hydraulics/Pneumatics I	3
ISC 112	Industrial Safety	2
MAT 172	Precalculus Trigonometry	4
MAT 271	Calculus I	4
MEC 130	Mechanisms	3
PHY 151	College Physics I	4
PHY 152	College Physics II	4
PTE 114	Pathway to Employ-Egr Tech	3
WBL 110	World of Work	1
WBL 111T	Work-Based Learning I - Technical Programs	1
WLD 110	Cutting Processes	2
WLD 121	GMAW (MIG) FCAW/Plate	4
WLD 151	Fabrication I	4

Course Sequencing

1st Semester (Fall)

Item #	Title	Credits
ELC 120	Intro to Wiring	3
ELN 133	Digital Electronics	4
MEC 130	Mechanisms	3
PTE 114	Pathway to Employ-Egr Tech	3

2nd Semester (Spring)

Item #	Title	Credits
ATR 112	Intro to Automation	3
ELC 117	Motors and Controls	4
ELC 125	Diagrams and Schematics	2
ELC 213	Instrumentation	4
	Natural Science/Math Choice (A40180)	3

3rd Semester (Summer)

Item #	Title	Credits
CIS 110	Introduction to Computers	3
	Humanities/Fine Arts Choice (A40180)	3

4th Semester (Fall)

Item #	Title	Credits
DFT 119	Basic CAD	2
ELC 131	Circuit Analysis I	4
ELC 231	Electric Power Systems	4
HYD 110	Hydraulics/Pneumatics I	3
	Communication 1st Choice (A40180)	3

5th Semester (Spring)

Item #	Title	Credits
ELC 128	Intro to PLC	3
ELN 131	Analog Electronics I	4
	Communication 2nd Choice (A40180)	3
	Social/Behavioral Sciences Choice (A40180)	3
	Work-Based Learning Choice	1
	Total Credits	65