Electrical Systems Technology — Associate Degree

Degree Type

Associate Degree

The same course hours may be counted only once to fulfill degree requirements. Course and credit requirements are shown below.

Requirements

General Education

Complete 5 of the following groups:

English

Take 3 credits from:

Code	Title	Credits
ENG-110	Freshman Composition	3
ENG-111	Writing and Inquiry	3

Communication

Take 3 credits from:

Code	Title	Credits
COM-231	Public Speaking	3
ENG-112	Writing/Research in the Disc	3
ENG-113	Literature-Based Research	3
ENG-114	Prof Research & Reporting	3
ENG-115	Oral Communication	3

Mathematics

Take 3 credits from:

Code	Title	Credits
MAT-110	Math Measurement & Literacy	3
MAT-143	Quantitative Literacy	3
MAT-171	Precalculus Algebra	4

Social/Behavioral Sciences

Take 3 credits from:

Code	Title	Credits
GEO-110	Introduction to Geography	3
GEO-111	World Regional Geography	3
HIS-121	Western Civilization I	3
HIS-131	American History I	3
HIS-132	American History II	3
HIS-221	African-American History	3
POL-120	American Government	3
PSY-118	Interpersonal Psychology	3
PSY-150	General Psychology	3
PSY-243	Child Psychology	3
SOC-210	Introduction to Sociology	3
SOC-213	Sociology of the Family	3
SOC-220	Social Problems	3

Humanities/Fine Arts

Take 3 credits from:

Code	Title	Credits
ART-111	Art Appreciation	3
HUM-110	Technology and Society	3
HUM-115	Critical Thinking	3
HUM-120	Cultural Studies	3
HUM-121	The Nature of America	3
HUM-122	Southern Culture	3
HUM-160	Introduction to Film	3
HUM-211	Humanities I	3
MUS-110	Music Appreciation	3
REL-110	World Religions	3
REL-211	Intro to Old Testament	3
REL-212	Intro to New Testament	3

Major Requirements

Take 16 credits from:

Code	Title	Credits
ELC-112	DC/AC Electricity	5
ELC-113	Residential Wiring	4
ELC-117	Motors and Controls	4
ELC-128	Intro to PLC	3

Concentration Requirements

Take 12 credits from:

Code	Title	Credits

Code	Title	Credits
ELC-114	Commercial Wiring	4
ELC-118	National Electrical Code	2
ELC-125	Diagrams and Schematics	2
ELC-213	Instrumentation	4

Other Requirements

Take 21 credits from:

Code	Title	Credits
ACA-115	Success & Study Skills	1
ACA-122	College Transfer Success	1
AHR-110	Intro to Refrigeration	5
AHR-111	HVACR Electricity	3
ALT-120	Renewable Energy Tech	3
ATR-112	Intro to Automation	3
BPR-111	Print Reading	2
BUS-110	Introduction to Business	3
BUS-137	Principles of Management	3
BUS-139	Entrepreneurship I	3
CIS-110	Introduction to Computers	3
CIS-111	Basic PC Literacy	2
DFT-119	Basic CAD	2
ELC-119	NEC Calculations	2
ELC-127	Software for Technicians	2
ELC-131	Circuit Analysis I	4
ELC-135	Electrical Machines	3
ELC-213	Instrumentation	4

Code	Title	Credits
ELC-220	Photovoltaic Sys Tech	3
ELC-221	Adv PV Sys Designs	3
HYD-110	Hydraulics/Pneumatics I	3
HYD-210	Advanced Hydraulics	2
ISC-112	Industrial Safety	2
MAT-121	Algebra/Trigonometry I	3
MEC-110	Intro to CAD/CAM	2
MEC-111	Machine Processes I	3
MEC-130	Mechanisms	3
MNT-110	Intro to Maint Procedures	2
PHY-131	Physics-Mechanics	4
WBL-111	Work-Based Learning I	1
WBL-112	Work-Based Learning I	2
WBL-113	Work-Based Learning I	3
WLD-110	Cutting Processes	2
WLD-112	Basic Welding Processes	2
WLD-115	SMAW (Stick) Plate	5

Plan of Study

Fall 1

Course Code	Title	Credits
ACA-115	Success & Study Skills/College Transfer Success	1
ELC-112	DC/AC Electricity	5
ELC-113	Residential Wiring	4
ELC-118	National Electrical Code	2
ELC-125	Diagrams and Schematics	2
ISC-112	Industrial Safety	2

Spring 1

Course Code	Title	Credits
ELC-114	Commercial Wiring	4
ELC-117	Motors and Controls	4
ELC-119	NEC Calculations	2
ELC-128	Intro to PLC	3
HYD-110	Hydraulics/Pneumatics I	3

Summer 1

Course Code	Title	Credits
ENG-111	Writing and Inquiry	3
HUM-115	Humanities/Fine Arts Elective	3

Fall 2

Course Code	Title	Credits
AHR-110	Intro to Refrigeration	5
BPR-111	Print Reading	2
BUS-110	Introduction to Business	3
ELC-213	Instrumentation	4

Spring 2

Course Code	Title	Credits
CIS-110	Introduction to Computers	3
COM-231	Public Speaking	3
MAT-110	Math Measurement & Literacy	3
PSY-150	Behavioral/Social Sciences Elective	3
	Total Credits	**64**