Electrical Technology A.A.S.

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NOTICE(s): For the A.A.S. Degree in Industrial Automation Technology, Electrical Technology Specialty, the student must complete a minimum of 76 credit hours—a minimum of 61 in technical courses and a minimum of 15 in general education courses—all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student's major advisor. Technical courses may vary to meet student needs and to provide options. Admission Requirements: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

Program: Electrical Technology
Type: Associate in Applied Science Degree

Written Composition

Item #	Title	Credits
ENG 101	English Composition I	3
	Sub-Total Credits	3

Humanities and Fine Arts

Item #	Title	Credits
	Humanities/Fine Arts Elective	3
	Sub-Total Credits	3

Natural Sciences and Mathematics

Item #	Title	Credits
INT 104	Principles of Technology	3
	MTH 100: Intermediate College Algebra OR numerically higher	3
	Sub-Total Credits	6

History, Social and Behavioral Sciences

Item #	Title	Credits
	History, Social and Behavioral Sciences Elective	3
	Sub-Total Credits	3

Technical Courses - Required

Item #	Title	Credits
EET 100	Introduction to Engineering Technologies	3
EET 109	Electrical Blueprint Reading I	3
	ELT 110 or EET 192	3
ELT 114	Residential Wiring Methods	3
ELT 115	Residential Wiring Methods II	3
	ELT 117 or INT 206	3
	ELT 118 or INT 158	3
	ELT 122 or INT 211	3
	ELT 231 or INT 184	3
	INT 101 or EET 103	3
	INT 103 or EET 104	3
INT 117	Principles of Industrial Mechanics	3
INT 113	Industrial Motor Control I	3
INT 118	Fundamentals of Industrial Hydraulics and Pneumatics	3
ORI 101	Orientation to College	1
	Sub-Total Credits	43

Additional Coursework:

Choose 18 credits from the following list.

Item #	Title	Credits
CIS 146	Microcomputer Applications	3
ELT 181	Special Topics in Electrical Technology	3
ELT 182	Special Topics in Electrical Technology	3
	ELT 183 or INT 129	3
ELT 192	Practicum/Intern/Co-Op	1
ELT 194	Practicum/Intern/Co-Op	3
ELT 206	Osha Safety Standards	3
ELT 212	Motor Controls II	3
ELT 232	Advanced Programmable Controllers	3
ELT 234	PLC Applications	3
ELT 241	National Electric Code	3
ELT 242	Journeyman Master Prep Exam	3
ELT 244	Conduit Bending and Installation	3
ELT 288	Co-Op	2
ACR 111	Principles of Refrigeration	3
ACR 112	HVACR Service Procedures	3
ACR 113	Refrigeration Piping Practices	3
ACR 132	Residential Air Conditioning	3
EET 114	Concepts of Solid State Electronics	5
EET 115	Concepts of Digital Electronics	5
EET 119	Circuit Fabrication I	1
EET 207	Intro to Robotics	3
EET 212	Intro to Robotics Lab	2
EET 213	Process Control and Instrumentation	3
EET 224	Elements of Industrial Controls with PLCs	3
EET 229	Elements of Industrial Controls with PLCs Lab	2
EET 238	Process Control and Instrumentation Lab	2
INT 126	Preventive Maintenance	3
INT 127	Principles of Industrial Pumps and Piping Systems	3
INT 134	Principles of Industrial Maintenance Welding and Metal Cutting Techniques	3
INT 139	Introduction to Robotic Programming	3
INT 253	Industrial Robotics	3
	INT 254 or ELT 254	3
	MDT 105 or DDT 104	3
SPH 106	Fundamentals of Oral Communication	3
	Sub-Total Credits	101
	Total credits:	**76**