



Electrical Technology A.A.S.

Advisors – Ayers Campus: Tony Thrower, Electricity Building (256.835.5441) tthrower@gadsdenstate.edu;
East Broad Campus: Debbie Reynolds, Electrical Building (256.549.8631) dreynolds@gadsdenstate.edu

		STUDENT PROGRESS	
		<u>Grade</u>	<u>Term Completed</u>
Area I — Written Composition:	3		
• ENG 101 - English Composition I	3		
Area II — Humanities and Fine Arts:	3		
• Humanities/Fine Arts*	3		
Area III — Natural Science or Mathematics:	6		
• INT 104 - Principles of Technology	3		
• MTH 100 - Intermediate College Algebra OR numerically higher.....	3		
Area IV – History, Social and Behavioral Sciences:	3		
• Economics, Geography, History, Political Science, Psychology, or Sociology.....	3		
Area V - Technical Courses:	28		
Courses listed below are required.			
• EET 100 - Introduction to Engineering Technologies.....	3		
• EET 109 - Electrical Blueprint Reading I.....	3		
• ELT 110 - Wiring Methods OR EET 192 - Installation Practices.....	3		
• ELT 231 - Introduction to Programmable Controllers OR INT 184 – Introduction to Programmable Logic Controllers	3		
• INT 101 - DC Fundamentals OR EET 103 - DC Fundamentals.....	3		
• INT 103 - AC Fundamentals OR EET 104 - AC Fundamentals	3		
• INT 113 - Industrial Motor Control I.....	3		
• INT 117 - Principles of Industrial Mechanics.....	3		
• INT 118 - Fundamentals of Industrial Hydraulics and Pneumatics.....	3		
• ORI 101 - Orientation to College.....	1		
Additional Coursework:	33		
• CIS 146 - Microcomputer Applications.....	3		
• * ELT 114 - Residential Wiring Methods	3		
• * ELT 115 - Residential Wiring Methods II	3		
• * ELT 117 - AC/DC Machines OR INT 206 - Industrial Motors I	3		
• * ELT 118 - Commercial/Industrial Wiring I OR INT 158 - Industrial Wiring I	3		
• * ELT 122 - Advanced AC/DC Machines OR INT 211 - Industrial Motors II	3		
• ELT 181 - Special Topics in Electrical Technology	3		
• ELT 182 - Special Topics in Electrical Technology	3		



STUDENT PROGRESS

	<u>Grade</u>	<u>Term Completed</u>
• ELT 183 - Special Topics in Electrical Technology- NCCER Certification 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	_____	_____
• ACR 111 - Principles of Refrigeration 3	_____	_____
• ACR 113 - Refrigeration Piping Practices 3	_____	_____
• ACR 126 - Commercial Heating Systems 3	_____	_____
• ACR 148 - Heat Pump Systems I 3	_____	_____
• ACR 200 - Review for Contractors Exam..... 3	_____	_____
• EET 114 - Concepts of Solid State Electronics..... 5	_____	_____
• EET 115 - Concepts of Digital Electronics 3	_____	_____
• 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 – Robot Maintenance and Troubleshooting OR ELT 254—Robot Maintenance and Troubleshooting 3	_____	_____
• MDT 105 - Introduction to Computer-Aided Design (CAD) OR DDT 104 - Basic Computer Aided Drafting and Design 3	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____

***Required Courses**

Total Hours Required for Degree:..... 76

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.

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.