



## Industrial Automation Technology A.A.S.

**Advisors – Ayers Campus:** Tony Thrower, Electrical Building (256.835.5441) [tthrower@gadsdenstate.edu](mailto:tthrower@gadsdenstate.edu)  
**East Broad Campus:** Jack Mayfield, Industrial Automation Building (256.549.8637) [jmayfield@gadsdenstate.edu](mailto:jmayfield@gadsdenstate.edu)

		<b>STUDENT PROGRESS</b>	
		<u>Grade</u>	<u>Term Completed</u>
<b>Area I — Written Composition:</b> .....	<b>3</b>		
• ENG 101 - English Composition I .....	3	_____	_____
<b>Area II — Humanities and Fine Arts:</b> .....	<b>3</b>		
• Humanities/Fine Arts** .....	3	_____	_____
<b>Area III — Natural Science or Mathematics:</b> .....	<b>6</b>		
• INT 104 - Principles of Technology .....	3	_____	_____
• MTH 100 - Intermediate College Algebra <b>OR</b> numerically higher.....	3	_____	_____
<b>Area IV — History, Social and Behavioral Sciences:</b> .....	<b>3</b>		
• Economics, Geography, History, Political Science, Psychology, or Sociology.....	3	_____	_____
<b>Area V — Technical Courses:</b> .....	<b>28</b>		
Courses listed below are required.			
• EET 100 - Introduction to Engineering Technologies.....	3	_____	_____
• EET 109 - Electrical Blueprint Reading I.....	3	_____	_____
• ELT 110 - Wiring Methods .....	3	_____	_____
• INT 101 - DC Fundamentals <b>OR</b> EET 103 - DC Fundamentals.....	3	_____	_____
• INT 103 - AC Fundamentals <b>OR</b> 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	_____	_____
• INT 184 - Introduction to Programmable Logic Controllers <b>OR</b> ELT 231 - Introduction to Programmable Controllers.....	3	_____	_____
• ORI 101 - Orientation to College.....	1	_____	_____
<b>Additional Coursework:</b> .....	<b>33</b>		
• CIS 146 - Microcomputer Applications.....	3	_____	_____
• * INT 126 - Preventive Maintenance .....	3	_____	_____
• * INT 127 - Principles of Industrial Pumps and Piping Systems .....	3	_____	_____
• INT 128 - Principles of Industrial Environmental Controls.....	3	_____	_____
• * INT 134 - Principles of Industrial Maintenance Welding and Metal Cutting Techniques .....	3	_____	_____
• INT 139 – Introduction to Robotic Programming.....	3	_____	_____
• INT 153 - Precision Machining Fundamentals I .....	3	_____	_____



**STUDENT PROGRESS**

	<u>Grade</u>	<u>Term Completed</u>
• INT 180 - Special Topics..... 2	_____	_____
• INT 206 - Industrial Motors I ..... 3	_____	_____
• INT 211 - Industrial Motors II ..... 3	_____	_____
• INT 252 - Variable Speed Motor Drives ..... 3	_____	_____
• INT 253 – Industrial Robotics..... 3	_____	_____
• INT 280 - Special Topics in Industrial Maintenance Technology 3	_____	_____
• INT 291 - Cooperative Education..... 3	_____	_____
• INT 292 - Cooperative Education..... 3	_____	_____
• INT 293 - Cooperative Education..... 3	_____	_____
• ELT 114 – Residential Wiring Methods..... 3	_____	_____
• ELT 115 – Residential Wiring Methods II..... 3	_____	_____
• ELT 117 - AC/DC Machines..... 3	_____	_____
• * ELT 118 - Commercial/Industrial Wiring I <b>OR</b>		
INT 158 - Industrial Wiring I ..... 3	_____	_____
• ELT 122 - Advanced AC/DC Machines..... 3	_____	_____
• ELT 183 - Special Topics in Electrical Technology- NCCER Certification ..... 3	_____	_____
• ELT 212 - Motor Controls II..... 3	_____	_____
• ELT 232 - Advanced Programmable Controllers ..... 3	_____	_____
• ELT 244 - Conduit Bending and Installation..... 3	_____	_____
• ACR 111 - Principles of Refrigeration ..... 3	_____	_____
• ACR 112 - HVACR Service Procedures ..... 3	_____	_____
• MDT 105 - Introduction to Computer-Aided Design (CAD) <b>OR</b>		
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, 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 Requirement: 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.