

# Automation and Electrical Technology, A.S.

The EART program prepares Electrical Automation Technicians to troubleshoot, wire, repair, adapt, maintain, program (PLC's PAC's), and control large automated electrical systems found in Industrial and Manufacturing Industries worldwide. The EART Technician will work with DC AC motor controlled machines; Programmable Logic Controlled (PLC's) and Programmable Automation Controlled (PAC's) machines, systems, and devices; Hydraulic and pneumatic controlled machines; conveyor, fluid, and bulk storage systems; flex, soft start, and variable frequency drives; Robots; servo, and stepper motors. Because of their highly skilled hands on training the EART student is in high demand from many industries. Total Program Credits: 63

## Program Requirements

Code	Title	Credit Hours
<b>Total Credit Hours</b>		<b>60</b>
<b>General Education Requirements</b>		<b>35 Credits</b>
ENGL 1010 or ENGH 1005	Introduction to Academic Writing CC Literacies and Composition Across Contexts CC	3
ENGL 2010	Intermediate Academic Writing CC	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning QL (undefined)	
MAT 1035	Quantitative Reasoning with Integrated Algebra QL (undefined)	
STAT 1040	Introduction to Statistics QL (3)	
STAT 1045	Introduction to Statistics with Algebra QL (5)	
MATH 1050	College Algebra QL (4)	
MATH 1055	College Algebra with Preliminaries QL (5)	
MATH 1090	College Algebra for Business QL (undefined)	
Complete one of the following:		3
HIST 2700 & HIST 2710	US History to 1877 AS and US History since 1877 AS (6)	
HIST 1700	American Civilization AS (3)	
HIST 1740	US Economic History AS (3)	
POLS 1000	American Heritage AS (3)	
POLS 1100	American National Government AS (3)	
Complete the following:		
PHIL 2050	Ethics and Values IH	3
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE Fitness for Life TE	2
<b>Distribution Courses</b>		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
<b>Discipline Core Requirements</b>		<b>16 Credits</b>
Choose from AET or related courses (1000 level or higher)		16
<b>Elective Requirements</b>		<b>9 Credits</b>
Electives (1000 level or higher)		9

## Graduation Requirements

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above with no core course below a C-.

3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

## Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track (<http://www.uvu.edu/wolverinetrack/>).

### First Year

Semester 1		Credit Hours
ENGL 1010 or ENGH 1005	Introduction to Academic Writing CC or Literacies and Composition Across Contexts CC	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning QL	
STAT 1040	Introduction to Statistics QL	
MATH 1050	College Algebra QL	
MATH 1090	College Algebra for Business QL	
HIST or POLS		3
Biology		3
EART		5
<b>Credit Hours</b>		<b>17</b>

Semester 2		Credit Hours
ENGL 2010	Intermediate Academic Writing CC	3
Physical Science		3
Humanities		3
EART		5
<b>Credit Hours</b>		<b>14</b>

### Second Year

Semester 3		Credit Hours
PHIL 2050	Ethics and Values IH	3
Social/ Behavioral Science		3
EART		6
Elective		3
<b>Credit Hours</b>		<b>15</b>
Semester 4		Credit Hours
3rd Science		3
Fine Arts		3
Elective		3
Elective		3
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE or Fitness for Life TE	2
<b>Credit Hours</b>		<b>14</b>
<b>Total Credit Hours</b>		<b>60</b>

## Program Learning Outcomes

1. EART Students will be able to troubleshoot, install, program and maintain equipment used in an automated process.