

# ELECTRICAL AND INSTRUMENTATION TECHNOLOGY AAS – 20611

Course	Requirement Field	Credits	Notes
<b>Fall - 1st Semester</b>			
BUS 111 Business Mathematical Calculations	GE	3 to 5	Fall or Spring
<b>OR</b> MAT 100 Applied Mathematics or higher			
ELT 110 Electricity and Electronics	Curriculum Required	3	Fall only
ELT 111 DC Electrical Systems	Curriculum Required	3	Fall only; Class held 1 <sup>st</sup> 8 weeks
ELT 112 AC Electrical Systems	Curriculum Required	3	Fall only; Class held 2 <sup>nd</sup> 8 weeks
TEC 112 Basic Hydraulics and Pneumatics	Curriculum Required	2	Fall only
TEC 133 Safety Practices for Industry	Curriculum Required	1	Fall Only
<b>Total Hours</b>		<b>17</b>	

Course	Requirement Field	Credits	Notes
<b>Spring - 2nd Semester</b>			
CMP 101 Introduction to Computers <b>OR</b> CMP 103 Intro to Computer Based Systems	GE	3	Fall or Spring
ELT 115 Conduits and Raceways	Curriculum Required	3	Spring only
ELT 161 Process Measurement Instrumentation I	Curriculum Required	3	Spring only
ELT 171 Process Control Instrumentation	Curriculum Required	3	Prereq ELT 161 or concurrent enrollment in ELT 161; spring only
ELT 181 Electronic Components	Curriculum Required	3	Prereq ELT 112 or instructor approval; spring only
ELT 251 National Electric Code	Curriculum Required	3	Spring only
<b>Total Hours</b>		<b>15</b>	

Course	Requirement Field	Credits	Notes
<b>Fall - 3rd Semester</b>			
ELT 271 Process Control and PLC's <b>OR</b>	Curriculum Required	3	Prereq ELT 112; Fall only 2nd 8 weeks
ELT 273 Process Control and PLC's ELT 272 Motors and Motor Controls	Curriculum Required	3	Prereq ELT 112; Fall only 1st 8 weeks
ENG 100 <b>OR</b> ENG 101 Written Communications	GE	3	
Elective	Elective	3	
General Education Elective	GE	3	
<b>Total Hours</b>		<b>15</b>	

Course	Requirement Field	Credits	Notes
<b>Spring- 4th Semester</b>			
ELT 162 Process Measurement Instrumentation II	Curriculum Required	3	Prereq ELT 161 or instructor approval ; Spring only. 1 <sup>st</sup> 8 weeks.
ELT 181 Electronic Components	Curriculum Required	3	Prereq ELT 112 or instructor approval; Spring only
ELT 258 Electrical Troubleshooting	Curriculum Required	3	Prereq ELT 112; Spring only 2 <sup>nd</sup> 8 weeks
Elective	Elective	3	
Gen Ed Elective	GE	3	
ENG 102 Written Communications II <b>OR</b> TEC 260 Technical Report Writing	GE	3	Prereq ENG 100 or ENG 101
<b>Total Hours</b>		<b>18</b>	

<b>Total Hours</b>	63
Total Curriculum Required	39
Total Curriculum Related	0
Total General Education	18
Total Elective	6

**Notes:** The foregoing is a recommended, or suggested, sequence of courses. Of course, if a student enters the program in the spring, or transfers credit in, the above would have to be modified.

*This degree dictates specific courses that must be taken as part to meet the General Education requirements. Consult your catalog. **All courses must be completed with a grade of "C" or better--Be sure to check the catalog for other changes and requirements.***