



Fall Term 1	<i>13-15 credit hours</i>	Hours	Notes
• ELT 183 Digital Circuits		3	
• MAT 100 Technical Mathematics <i>Recommended Mathematics</i>		3	<b>Prerequisite:</b> MAT 082 or a satisfactory score on the mathematics skills assessment.
<b>1<sup>st</sup> 8 weeks</b>			
• ELT 111 DC Electrical Systems		3	
• STU 100 Computer Literacy <b>OR</b> AGS 101 Microcomputers in Agriculture <b>OR</b> CSA 126 Microsoft Office for Windows		1-3	<b>Note:</b> It is recommended that students take STU 100 to fulfill this requirement.
<b>2<sup>nd</sup> 8 weeks</b>			
• ELT 112 AC Electrical Systems		3	<b>Prerequisite:</b> ELT 111 (may be taken concurrently)
<b>Term hours subtotal:</b>		<b>13-15</b>	

Spring Term 1	<i>13 credit hours</i>	Hours	Notes
• ELT 126 Solid State Devices		3	<b>Prerequisites:</b> ELT 111 and ELT 112
• AIT 115 Hydraulic Systems		3	
• AIT 120 Pnuematic Systems		3	
<b>1<sup>st</sup> 8 weeks</b>			
• ELT 162 Microprocessors & Microcontrollers		2	<b>Prerequisites:</b> ELT 183
<b>2<sup>nd</sup> 8 weeks</b>			
• ELT 165 Programmable Logic Controllers		2	<b>Prerequisite:</b> ELT 101 or ELT 111
<b>Term hours subtotal:</b>		<b>13</b>	

Summer Term 1	<i>5-6 credit hours</i>	Hours	Notes
• General Education Requirement <i>Physical and Biological Science or Social and Behavioral Sciences or Arts and Humanities or College Composition or Applied Communication</i>		3-4	
• WLD 113 SMAW/GMAW Welding for Non-Welding Majors <i>Recommended Program Elective</i>		2	
<b>Term hours subtotal:</b>		<b>5-6</b>	

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Fall Term 2		15-17 credit hours	Hours	Notes
•	ELT 221 Communication Systems and Circuits		3	Prerequisites: ELT 126 and ELT 162
•	ELT 271 Process Control Instrumentation		3	Prerequisite: ELT 126
•	General Education Requirement Physical and Biological Science or Social and Behavioral Sciences or Arts and Humanities or College Composition or Applied Communication		3-4	
•	General Education Requirement Physical and Biological Science or Social and Behavioral Sciences or Arts and Humanities or College Composition or Applied Communication		3-4	
•	MET 200 SolidWorks for Non-Engineers <u>OR</u> ELT 130 Introduction to Robotics Recommended Program Elective		3	Note: One program elective is needed in Fall or Spring.
<b>Term hours subtotal:</b>			<b>15-17</b>	

Spring Term 2		14-16 credit hours	Hours	Notes
•	ELT 258 Electronic Troubleshooting		2	Prerequisites: ELT 126 and ELT 162
•	ELT 272 Motors and Motor Control		3	Prerequisite: ELT 126
•	General Education Course Physical and Biological Science or Social and Behavioral Sciences or Arts and Humanities or College Composition or Applied Communication		3-4	
•	General Education Course Physical and Biological Science or Social and Behavioral Sciences or Arts and Humanities or College Composition or Applied Communication		3-4	
•	EGR 180 CAD (Computer Aided-Drawing) with SolidWorks <u>OR</u> ELT 135 Robot Operator Recommended Program Elective		3	Note: One program elective is needed in Fall or Spring.
<b>Term hours subtotal:</b>			<b>14-16</b>	

*This recommended sequence is not a binding agreement of any kind between Yavapai College and the student, but merely represents a potential curriculum that may be altered as appropriate to meet the student's academic objectives. Course availability is subject to change and all courses are not available every semester. Students should inquire each semester with their Advisor before registering to determine current requirements and possible changes to the suggested curriculum.*