



# Electronics Course Sequence Chart



	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
<b>LEVEL I</b>	<b>ELC111</b> 15 Electrical Math I	<b>ELC112</b> 15 Electrical Math II	<b>ELC113</b> 15 Electrical Math III	<b>ELC114</b> 15 Electrical Math IV
	<b>ELC102</b> 15 Orientation	<b>ELC101</b> 15 OHSA 10 Hour Certification	<b>ELC135</b> 30 AC Current and Voltage	<b>ELC137</b> 45 Transformers and R, C, and L Circuits
	<b>ELC121</b> 15 Soldering Safety and Theory	<b>ELC133</b> 30 Multiple Load Circuits	<b>ELC235</b> 30 AC Power	<b>ELC138</b> 30 Motors and Instruments
	<b>ELC131</b> 30 Electrical Concepts, Quantities and Units	<b>ELC139</b> 30 Residential Electricity	<b>ELC136</b> 45 Capacitance and Inductance	<b>ELC233</b> 30 Complex Circuit Analysis
	<b>ELC132</b> 45 Basic Circuit Laws, Measurements, and Components	<b>ELC134</b> 30 Magnetism		
	<b>PFS109</b> 7.5 Leadership	<b>PFS110</b> 7.5 Leadership		
	<b>TOTAL: 127.5</b>	<b>TOTAL: 127.5</b>	<b>TOTAL: 120</b>	<b>TOTAL: 120</b>
<b>LEVEL II</b>	<b>ELC211</b> 15 Electronics Math I	<b>ELC212</b> 15 Electronics Math II	<b>ELC213</b> 15 Electronics Math III	<b>ELC214</b> 15 Electronics Math IV
	<b>ELC201</b> 15 Electrical Safety	<b>ELC243</b> 30 Transistors	<b>ELC245</b> 30 Operational Amplifiers	<b>ELC247</b> 45 Integrated Circuits and Electronic Control Devices
	<b>ELC241</b> 45 Introduction to Electronics and Semiconductors	<b>ELC343</b> 45 Small Signal Amplifiers	<b>ELC345</b> 30 Troubleshooting	<b>ELC248</b> 30 Regulated Power Supplies
	<b>ELC242</b> 45 Junction Diodes and DC Power Supplies	<b>ELC244</b> 30 Large Signal Amplifiers	<b>ELC246</b> 45 Oscillators and Radio Communications	<b>ELC263</b> 30 National Skills Certificate Review
	<b>PFS209</b> 7.5 Business Principles	<b>PFS211</b> 7.5 Business Principles		
	<b>TOTAL : 127.5</b>	<b>TOTAL: 127.5</b>	<b>TOTAL: 120</b>	<b>TOTAL : 120</b>
<b>LEVEL III</b>	<b>ELC311</b> 15 Digital Electronics Math I	<b>ELC312</b> 15 Digital Electronics Math II	<b>ELC313</b> 15 Digital Electronics Math III	<b>ELC314</b> 15 Digital Electronics Math IV
	<b>ELC301</b> 15 Electrostatic Discharge Prevention and Practices	<b>ELC353</b> 30 IC Specifications and Interfacing	<b>ELC356</b> 30 Arithmetic Circuits	<b>ELC364</b> 15 Audio and Video Systems
	<b>ELC351</b> 30 Digital Electronics Introduction and Digital Numbering Systems	<b>ELC354</b> 30 Encoding, Decoding, Displays and Flip Flops	<b>ELC357</b> 30 Memories	<b>ELC365</b> 30 Programmable Logic Controllers
	<b>ELC352</b> 45 Logic Gates and Logic Gate Uses	<b>ELC355</b> 30 Counters and Shift Registers	<b>ELC358</b> 30 Digital Systems and Computers	<b>ELC363</b> 45 National Skills Certificate Preparation
	<b>PFS309</b> 7.5 Total Quality Principles	<b>PFS310</b> 7.5 Total Quality Principles	<b>BFM301/SRS299</b> 15 Business Finance/Skill Practice	<b>BFM301/SRS299</b> 15 Business Finance/Skill Practice
	<b>BFM301/SRS299</b> 15 Business Finance/Skill Practice	<b>BFM301/SRS299</b> 15 Business Finance/Skill Practice		
	<b>TOTAL: 127.5</b>	<b>TOTAL: 127.5</b>	<b>TOTAL: 120</b>	<b>TOTAL: 120</b>

Revision Date: June 2018

Level II and III curriculum is taught in alternating years. Level II curriculum in school years starting with odd numbers in the fall, Level III with even numbers.