

# AAS: Electrical Technology

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## Developmental Courses as required based on placement scores

<input type="checkbox"/>	<b>No Developmental Courses Required</b>
<input type="checkbox"/>	<b>ENG 91</b> Writing for College 1 – Score of 4 E Code 1 and below
<input type="checkbox"/>	<b>ENG 92</b> Writing for College 2 – Score of 6 E Code 2
<input type="checkbox"/>	<b>ESL 94</b> Academic Writing 1 – Score of 5 or 6 E Code 6
3 <input type="checkbox"/>	<b>ESL 122</b> Academic Writing 2 (3 credits) – Score of 7 E Code 7
<input type="checkbox"/>	<b>MATH 92</b> Pre-Algebra – Arithmetic score 44 and below, Elementary Algebra 54 and below
<input type="checkbox"/>	<b>MATH 93</b> Beginning Algebra – Arithmetic score 45 and above, Elementary Algebra 54 and below <b>OR</b> <b>MATH 94</b> Math Literacy – Arithmetic score 45 and above, Elementary Algebra 54 and below
<input type="checkbox"/>	<b>READ 93</b> Foundation of College Reading – Score of 57 and below
3 <input type="checkbox"/>	<b>READ 105</b> Analytical Reading (3 credits) – Score of 58 and higher

## Core Requirements

3 <input type="checkbox"/>	<b>ENG 101</b> – Writing and Research Choose an item.
3 <input type="checkbox"/>	<b>ENG 102</b> – Writing and Literature Choose an item.
4 <input type="checkbox"/>	<b>MATH 135</b> – College Algebra with Trigonometry Choose an item.
4 <input type="checkbox"/>	<b>MATH 161</b> – Pre-calculus Choose an item.
3 <input type="checkbox"/> or 4 <input type="checkbox"/>	Any Physics ( <b>PHYS</b> ) <sup>1</sup>
	<b>Science with Lab<sup>2</sup>: One Course in BIOL, CHEM, or PHYS</b>
3 <input type="checkbox"/> or 4 <input type="checkbox"/>	
	<p><b>CHOOSE A 3 CREDIT COURSE FROM 2 AREAS FOR A TOTAL OF 6 CREDITS.</b></p> <p><b>BEHAVIORAL SCIENCE:</b>  <b>Courses include:</b> Sociology (<b>SOC</b>), Psychology (<b>PSYCH</b>), Anthropology (<b>ANTHR</b>), Linguistics (<b>ANTHR</b>), and Geography (<b>GEOG</b>). <i>However SS 101 and SS 103 CANNOT BE USED TO FULFILL Behavioral Science.</i> <b>OR</b></p> <p><b>HUMANITIES:</b>  <b>Courses include:</b></p> <ul style="list-style-type: none"> <li>▪ Art (<b>ART</b>) 101, 103, 105, 108, 108A, 108B, 109, 109A, 125, 128, 129, 133, 139, 185, or 265. Additional fees and/or supplies may be required of <b>ART</b> classes; see catalog for details.</li> <li>▪ Communications (<b>COMM</b>) 101, 103, 109, or 115</li> <li>▪ Dance (<b>DANCE</b>) 101, 102, 105, 107, 121, 205, or 207 <b>OR</b>  A combination of three 1 credit dance classes to be chosen from <b>DANCE</b> 112, 115, 120, or 122</li> <li>▪ English (<b>ENG</b>) any <b>ENG</b> course <b>EXCEPT</b> <b>ENG</b> 101, 101H, 102, 102H, 124, or 222 <b>CANNOT BE USED TO FULFILL</b> Humanities elective.</li> <li>▪ Film (<b>FILM</b>) 100, 101, 102, 103, 109, 113, 114H, 115H, 125, 125H, 220, 220H</li> <li>▪ Foreign Language to be chosen from: <b>ARABC, CHINS, FREN, GER, ITAL, JAPNS, RUSSN, SPAN. ITAL 104 or ITAL 105 CANNOT BE USED TO FULFILL</b> a Foreign Language elective, but <b>CAN BE USED TO FULFILL</b> a Humanities elective.</li> </ul>

<sup>1</sup> Recommended that students take **PHYS 101**-Technical Physics 1 (Mechanics) and Lab.

<sup>2</sup> **PHYS 102**-Tech Physics 2 (Heat, Light, Sound) and Lab, is recommended to fulfill science requirement.

	<ul style="list-style-type: none"> <li>▪ Music (<b>MUSIC</b>) 100, 101, 102, 103, 111, 150, or 211</li> <li>▪ Philosophy (<b>PHIL</b>) 101A, 102A, 111, 150, 160, or 201H</li> <li>▪ Theater (<b>THEAT</b>) 101, 103, 111, 113, or 201</li> </ul> <p><b>THEAT 117A</b> is a 2 credit course which must be combined with another 1 credit approved Humanities elective. <b>OR</b></p> <p><b>SOCIAL SCIENCE:</b>  <b>Courses include:</b> History (<b>HIS</b>), Political Science (<b>POLSC</b>), Economics (<b>ECON</b>), and Geography (<b>GEOG</b>).  <i>However SS 102 and SS 105 CANNOT BE USED TO FULFILL Social Science.</i></p>
3 <input type="checkbox"/> or 4 <input type="checkbox"/>	3 <input type="checkbox"/> or 4 <input type="checkbox"/>
	<p><b>PEC/PEH/PES:</b> A combination of two courses (2 credits) either <b>PEH</b> and <b>PES</b>, or <b>PEC</b> and <b>PES</b>, or <b>PEC</b> or <b>PEH</b>, <b>PEC</b> and <b>PEC</b>. <b>PEC 110</b> (2 credits) <i>IS THE ONLY COMBINIATION COURSE THAT FULFILLS BOTH P.E. REQS.</i></p>
1 <input type="checkbox"/>	1 <input type="checkbox"/>

Degree Requirements	
3 <input type="checkbox"/>	<b>CIVIL 103</b> – Introduction to Technology Choose an item.
3 <input type="checkbox"/>	<b>ELEC 128</b> – Electrical Circuits: <b>High School Algebra or MATH 93 is the prerequisite or co-requisite.</b> Choose an item.
3 <input type="checkbox"/>	<b>ELEC 129</b> – Digital Logic: <b>High School Algebra or MATH 93 is the prerequisite.</b> Choose an item.
3 <input type="checkbox"/>	<b>ELEC 137</b> – Alternating Current and Non-Sine Wave: <b>ELECT 128 is the prerequisite. MATH 135 is a co-requisite.</b> Choose an item.
3 <input type="checkbox"/>	<b>ELEC 160</b> – Electronics: <b>High School Algebra or MATH 93 is the prerequisite.</b> Choose an item.
3 <input type="checkbox"/>	<b>ELEC 204</b> – Electrical Machinery: <b>ELEC 128 is the prerequisite.</b> Choose an item.
3 <input type="checkbox"/>	<b>ELEC 218</b> – Introduction to Microprocessors Choose an item.
3 <input type="checkbox"/>	<b>ELEC 239</b> – Analog Circuits: <b>ELEC 160 is the prerequisite. Offered in Fall semester.</b> Choose an item.
3 <input type="checkbox"/>	<b>ELEC 282</b> – Electronic Communication: <b>ELEC 128 is the prerequisite.</b> Choose an item.
	<b>TECHNICAL ELECTIVES<sup>3</sup>: See below for courses (9 Credits)</b>
3 <input type="checkbox"/>	3 <input type="checkbox"/>
3 <input type="checkbox"/>	

SEEN BY:

Completed credits of 64 required

**NOTES:**

**The Technical Electives requires Chairpersons approval**

All students should take Introduction to Technology in the first semester.

**# Technical Electives Fall**

**ELEC 227**-Electrical Systems Analysis  
**ELEC 240**-Advanced Electronic Circuits  
**ELEC 208**-Computer Systems  
**ELEC 224**-Telecom (Data Communications)  
**MECH 162**-CAD 1 Technical elective that is given both semester

**# Technical Electives Spring**

**ELEC 255**-Circuits for Engineers  
**ELEC 228**-Energy Conversion & Power  
**ELEC 226**-Pulse Timing Logic  
**ELEC 256**-Electronic Logic Algebra & Arithmetic

<sup>3</sup> Or substitute approved by Curriculum Chair

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Academic Plan		Completed credits of 64 required			
		Fall/Spring		Fall/Spring	
<u>Class</u>	<u>Credits</u>	<u>Class</u>	<u>Credits</u>	<u>Class</u>	<u>Credits</u>
Fall/Spring		Fall/Spring			
<u>Class</u>	<u>Credits</u>	<u>Class</u>	<u>Credits</u>	<u>Class</u>	<u>Credits</u>