

# AAS: Electrical Technology

**Curriculum Chair:** Professor Kary Ioannou TECH-33 Tel # (914) 606-8561 Email: [Kary.Ioannou@sunywcc.edu](mailto:Kary.Ioannou@sunywcc.edu)  
**Academic Dean:** TECH-106 Tel # (914) 606-6789 Email:

## 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 Choose an item.
<input type="checkbox"/>	<b>ENG 92</b> Writing for College 2 – Score of 6 E Code 2 Choose an item.
<input type="checkbox"/>	<b>ESL 94</b> Academic Writing 1 – Score of 5 or 6 E Code 6 Choose an item.
3 <input type="checkbox"/>	<b>ESL 122</b> Academic Writing 2 – Score of 7 E Code 7 Choose an item.
<input type="checkbox"/>	<b>MATH 92</b> Pre-Algebra – Arithmetic score 44 and below, Elementary Algebra 54 and below Choose an item.
<b>OR</b> <input type="checkbox"/>	<b>MATH 93</b> Beginning Algebra – Arithmetic score 45 and above, Elementary Algebra 54 and below Choose an item.
	<b>MATH 94</b> Foundations of Mathematical Reasoning – Arithmetic score 45 and above, Elementary Algebra 54 and below Choose an item.
<input type="checkbox"/>	<b>READ 93</b> Foundation of College Reading – Score of 57 and below Choose an item.
3 <input type="checkbox"/>	<b>READ 105</b> Analytical Reading – Score of 58 and higher Choose an item.

## New General Education Requirements

3 <input type="checkbox"/>	<b>ENG 101</b> – Writing and Research <b>OR ENG 101H</b> Choose an item.
3 <input type="checkbox"/>	<b>ENG 102</b> – Writing and Literature <b>OR ENG 102H</b> 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.
4 <input type="checkbox"/>	<b>PHYSC 101</b> – Technical Physics 1
4 <input type="checkbox"/>	<b>NATURAL SCIENCE GENERAL ED REQUIREMENTS</b> – Choose a 4 credit course: <b>BIOL</b> 101, 103, 115, 115H, 117, 117H, 121, 123, <b>CHEM</b> 107, 111, 113, 117, 201, 205, <b>PHYSC</b> 111, 112, 121, 122, 129 143, 143H, 151, 292
	<b>THE ARTS, FOREIGN LANGUAGE, or OTHER WORLD CIVILIZATIONS GENERAL ED REQUIREMENTS</b> – Choose a 3/4 credit course: <b>ART</b> 101, 102, 103, 104, 105, 106, 107, 108, 109, 109A, 110, 111, 112, 125, 129, 130, 133, 134, 135, 137, 138, 140, 141, 147, 201, 203, 212, 265, <b>DANCE</b> 101, 102, 107, 120, 121, 205, 207, <b>FILM</b> 100, 101, 102, 130 <b>MUSIC</b> 110, 110H, 111, 120, 121, 130, 131, 132, 133, 150, 230, 231, 232, 233, <b>THEAT</b> 111, 113, 201 <b>CHINS</b> 102, <b>FREN</b> 101, 102, 201, <b>ITAL</b> 101, 102, 103, 201, 201H, 202, 202H, 250, <b>SPAN</b> 101, 102, 103, 104, 201, 201H, 202, 202H, 203, 204
3 <input type="checkbox"/> /4 <input type="checkbox"/>	
	<b>AMERICAN HISTORY, WESTERN CIVILIZATIONS or SOCIAL SCIENCES GENERAL ED REQUIREMENTS</b> – Choose a 3 credit course: <b>HIS</b> 101, 102, 103, 201, <b>CJ</b> 111, <b>ECON</b> 101, 101H, 102, 102H, <b>GEOG</b> 101, <b>HSERV</b> 102, 200, <b>LIN</b> 201, <b>POLSC</b> 111, 111H, 115, <b>PSYCH</b> 101, 101H, 103, 103H, 107, 109, 110, 111, 112H, <b>SOC</b> 101, 101H, 102, 103, 104

	<p><b>ART 108, 109, HIS 101, 102, 104, 106, 110, 111, 112, 121*, 133**, 134**, POLSC 102, 104, 107</b></p> <p><i>*Students who complete this course cannot use HIS 133 or 134 to fulfill degree and/or general education requirements</i></p> <p><i>**Students who complete this course cannot use HIS 121 to fulfill degree and/or general education requirements</i></p>
3 <input type="checkbox"/>	

Degree Requirements			
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.		
3 <input type="checkbox"/>	<b>CIVIL 103</b> – Introduction to Technology Choose an item.		
	<b>TECHNICAL ELECTIVES: 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: Select THREE courses from:**

**ELEC 138** – Intro Telecommunications: **Offered in fall semester**

**ELEC 223** – Digital Logic and Switching Circuits: **Offered every semester**

**ELEC 228** – Energy Conversion & Power: **Not offered every semester**

**ELEC 240** – Advanced Electronic Circuits: **Offered every semester**

**ELEC 255**-Circuits for Engineers Corequisite: **Offered every semester** **MATH 165** – Technical Mathematics with Calculus

**ELEC 266** – Computer Applications for Electronics: **Not offered every semester**

**ELEC 267** - Advanced Circuits for Engineers: **Offered in spring semester** **Corequisite: ELEC 244** – Advanced Passive and Active Laboratories, **Prerequisites: ELEC 255** – Circuits for Engineers

**MECH 162**-CAD 1 Technical elective that is given both semester

**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>