



## Electrical Engineering Technologies

### Associate in Applied Science

Four-Semester Pathway - Academic Year 2019-2020

Semester 1	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
FIGS-100	Freshman Interest Group				1	
MATH-140	College Algebra		MATH-050		3	
MATH-146	Introduction to Trigonometry		MATH-050	MATH-140	1	
ELEC-101	Introduction to Electrical Engineering Technologies				3	
ELEC-110	DC Circuits		ELEC Program Acceptance	MATH-145	3	
ELEC-175	Wiring Practices		ELEC Program Acceptance		3	
ELEC-240	Fluid Power Systems		ELEC Program Acceptance		3	
<b>Semester 2</b>						
ELEC-120	Digital Electronics		ELEC Program Acceptance		3	
ELEC-130	Programmable Logic Controllers		ELEC Program Acceptance		4	
ELEC-140	AC Circuits		ELEC-101, ELEC-110, MATH-140 & MATH-146 or MATH-145		3	
ENGL-100	English Composition		ENGL-090, ENGL-095		3	
PHYS-150	College Physics I with Lab		MATH-140 & MATH-146 or MATH-145		4	
<b>Semester 3</b>						
AEDD-105	CAD Graphics		MATH-030		3	
ELEC-170	Three-Phase Circuits		ELEC-140 w/grade of C or better		3	
ELEC-215	Electrical Machinery		ELEC-140	ELEC-170	3	
ELEC-230	Industrial Electronics		ELEC-140 w/grade of C or better		3	
ENGL-115	Introduction to Literature		ENGL-100		3	
	Social Science Elective		See course prerequisites	See course corequisites	3	
<b>Semester 4</b>						
ELEC-235	Electronics II		ELEC-230		3	
ELEC-250	National Electrical Code		ELEC-215 and ELEC-170		3	
ELEC-260	Motor Controls and Automation		ELEC-215		3	
ELEC-265	Renewable Energy Resources		ELEC-110		3	
	Fine Arts or Humanities Elective		See course prerequisites	See course corequisites	3	



## Electrical Engineering Technologies

<b>General Education Requirements</b>					
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>PREREQUISITES</b>	<b>COREQUISITES</b>	<b>CREDITS</b>	<b>MET</b>
ENGL-100	English Composition	ENGL-090, ENGL-095		3	
ENGL-115	Introduction to Literature	ENGL-100		3	
FIGS-100	Freshman Interest Group Elective			1	
MATH-140	College Algebra	MATH-050		3	
MATH-146	Introduction to Trigonometry	MATH-050	MATH-140	1	
PHYS-150	College Physics I with Lab	MATH-145		4	
	Fine Arts or Humanities Elective			3	
	Social Science Elective			3	
AEDD-105	CAD Graphics	MATH-030		3	
<b>Major Required Courses</b>					
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>PREREQUISITES</b>	<b>COREQUISITES</b>	<b>CREDITS</b>	<b>MET</b>
ELEC-101	Intro to Electrical Engineering Tech			3	
ELEC-110	DC Circuits	ELEC program acceptance	MATH-145	3	
ELEC-120	Digital Electronics	ELEC program acceptance		3	
ELEC-130	Programmable Logic Controllers	ELEC program acceptance		3	
ELEC-140	AC Circuits	ELEC-101, ELEC-110 w/grade of "C" or better, MATH-145		3	
ELEC-170	Three-Phase Circuits	ELEC-140 w/grade of C or better		3	
ELEC-175	Wiring Practices	ELEC program acceptance		3	
ELEC-215	Electrical Machinery	ELEC-140	ELEC-170	3	
ELEC-230	Electronics I	ELEC-140 w/grade of C or better		3	
ELEC-235	Electronics II	ELEC-230		3	
ELEC-240	Fluid Power Systems	ELEC program acceptance		3	
ELEC-250	National Electrical Code	ELEC-215 & ELEC-170 OR ELEC-150 & ELEC-220		3	
ELEC-260	Motor Controls and Automation	ELEC-215		3	
ELEC-265	Renewable Energy Resources	ELEC-110		3	