

Mechatronics, Electronics & Robotics - Electrical Technology

Program: [Mechatronics, Electronics & Robotics](#)

ELECTRICAL TECHNOLOGY CERTIFICATE - Guided Pathway/ Map

1st Semester

Item #	Title	Credits
ILT 160	DC Fundamentals	3
ILT 161	AC Fundamentals	3
AUT 138	Principles of Industrial Mechanics	3
ORI 110	Freshman Seminar	1
	Sub-Total Credits	10

2nd Semester

Item #	Title	Credits
ELT 110	Wiring Methods	3
ILT 197	Motor Controls I	3
ELT 114	Residential Wiring Methods	3
MTH 116	Mathematical Applications	3
	Sub-Total Credits	12

3rd Semester

Item #	Title	Credits
ILT 166	Motors and Transformers I	3
ILT 194	Intro. to Programmable Logic Controllers	3
ILT 240	Sensors Technology and Applications	3
ILT 231	National Electric Code	3
	Sub-Total Credits	12

4th Semester

Item #	Title	Credits
ELT 104	Distribution System	3
ILT 117	Principles of Construction Wiring	3
ILT 167	AC/DC Machinery and Controls I	3
ILT 169	Hydraulics/Pneumatics	3
ENG 101	English Composition I	3
	Sub-Total Credits	15

5th Semester

Item #	Title	Credits
ILT 181	Special Topics in ILT	3
ELT 132	Commercial/Industrial Wiring II	3
ELT 225	Smart House Wiring	3
	Sub-Total Credits	9
	Total credits:	58