

Mechatronics, Electronics & Robotics - Electronics Technology Mechatronics

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

OPTION I - ELECTRONICS TECHNOLOGY MECHATRONICS CERTIFICATE – Guided Pathway/Map

1st Semester

Item #	Title	Credits
ILT 160	DC Fundamentals	3
ILT 161	AC Fundamentals	3
ILT 199	MSSC Safety Course	3
ORI 110	Freshman Seminar	1
	Sub-Total Credits	10

2nd Semester

Item #	Title	Credits
ILT 162	Solid State Fundamentals	3
ILT 163	Digital Fundamentals	3
ILT 168	Hydraulics/Pneumatics	3
ENG 101	English Composition I	3
	Sub-Total Credits	12

3rd Semester

Item #	Title	Credits
ILT 197	Motor Controls I	3
ILT 240	Sensors Technology and Applications	3
ILT 139	Introduction to Robotic Programming	3
	Sub-Total Credits	9

4th Semester

Item #	Title	Credits
MTH 116	Mathematical Applications	3
ILT 194	Intro. To Programmable Logic Controllers	3
ILT 195	Troubleshooting Techniques I	3
ILT 196	Advanced Programmable Logic Controllers	3
	Sub-Total Credits	12

5th Semester

Item #	Title	Credits
ILT 210	Mechatronics	3
ILT 102	Industrial Automation	3
ILT 218	Industrial Robotics Concepts	3
	Sub-Total Credits	9
	Total credits:	52