

# Mechatronics, Electronics & Robotics - Electronics Technology Mechatronics

**Program:** Mechatronics, Electronics & Robotics

## OPTION I - AAS ELECTRONICS TECHNOLOGY MECHATRONICS – Guided Pathway/Map

### 1st Semester

Item #	Title	Credits
ILT 160	DC Fundamentals	3
ILT 161	AC Fundamentals	3
ILT 199	MSSC Safety Course	3
CIS 146	Computer Applications	3
ORI 110	Freshman Seminar	1
	Sub-Total Credits	13

### 2nd Semester

Item #	Title	Credits
ILT 162	Solid State Fundamentals	3
ILT 163	Digital Fundamentals	3
ILT 164	Circuit Fabrication I	1
ILT 168	Hydraulics/Pneumatics	3
ENG 101	English Composition I	3
	AUT 186 or CIS 199	3
	Sub-Total Credits	16

### 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
ILT 172	MSSC Manufacturing Processes and Production Course	3
	Sub-Total Credits	12

## 4th Semester

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
HUM 101	Introduction to Humanities I	3
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	15

## 5th Semester

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
ILT 210	Mechatronics	3
ILT 102	Industrial Automation	3
ILT 218	Industrial Robotics Concepts	3
	MTT 147 or AUT 138	3
HIS 101	Western Civilization I	3
	Sub-Total Credits	15
	<b>Total credits:</b>	<b>71</b>