



# PATHWAYS



YOUR MAP TO  
COMPLETION

## Electronics Technology Mechatronics

Associate in Applied Science Option I / Certificate / Short-Term Certificate

Full Time	Course Prefix	Course Description	Credit Hours	Semesters Offered	Area
Semester 1	ILT 160	Concepts of Direct Current <b>NC3 Certification Earned:</b> Fundamentals of Electricity - DC	3	As Needed	Required V
	ILT 161	Concepts of Alternating Current <b>NC3 Certification Earned:</b> Fundamentals of Electricity - AC	3	As Needed	Required V
	ILT 199	MSSC Safety Course <b>Certificaton Earned:</b> Certification: MSSC Safety / OSHA 10	3	Fa Sp Su	Required V
	MTH 103	Intro to Technical Mathematics	3	Fa Sp Su	Required III
	ORI 110	Freshman Seminar	1	Fa Sp Su	Required IV
Semester 2	ILT 162	Concepts of Solid States	3	As Needed	Required V
	ILT 163	Concepts of Digital Electronics	3	As Needed	Required V
	ILT 164	Circuit Fabrication	1	Fa Sp Su	Required V
	ILT 168	Hydraulics/Pneumatics <b>NC3 Certification Earned:</b> Fundamentals of Fluid Power – Pneumatics Fundamentals of Fluid Power – Hydraulics	3	Fa Sp Su	Required V
	ENG 101	English Composition I	3	Fa Sp Su	Required I
	AUT 186* Or AUT 138	Principles of Industrial Maintenance Welding and Metal Cutting Techniques or Principles of Industrial Mechanics	3	As Needed	Required V
Semester 3	ILT 109	Electrical Blueprint Reading I	3	Fa Sp Su	Required V
	ILT 197	Motor Controls I	3	Fa Sp Su	Required V
	ILT 218	Industrial Robotics Concepts	3	Fa Sp Su	Required V
	HUM 101	Intro to Humanities	3	Fa Sp Su	Required II
Semester 4	ILT 240	Sensors Technology and Applications <b>NC3 Certfication Earned:</b> Fundamentals of Sensor Technology	3	Fa Sp Su	Required V
	ILT 194	Intro Program Logic Controls <b>NC3 Certification Earned:</b> Fundamentals of PLCs - Allen-Bradley	3	Fa Sp Su	Required V
	ILT 195	Troubleshooting Techniques I	3	Fa Sp Su	Required V
	ILT 196	Adv Programmable Controls <b>NC3 Certification Earned:</b> Fundamentals of PLCs - Siemens	3	Fa Sp Su	Required V

	HIS 101	Western History	3	Fa Sp Su	Required IV
Semester 5	ILT 210	Mechatronics	3	Fa Sp Su	Required V
	ILT 102	Industrial Automation	3	As Needed	Required V
	ILT 172	MSSC Manufacturing Processes and Production Course	3	Fa Sp Su	Required V
		<b>Certificaton Earned:</b> MSSC MFG Processes and Production			
	MTT 147* Or CIS 199	Introduction to Machine Shop I or Network Communications	3	Fa Sp Su	Required V
MTH 100	Intermediate College Algebra	3	Fa Sp Su	Required III	
<b>Electronics Technology Mechatronics AAS Total Hours 71</b>					
Certifications					
<b>Electronics Technology Certificate In Mechatronics Total Hours 56</b>					
<b>Basic Electronics Short-Term Certificate Total Hours 9</b>					
<b>Intermediate Electronics Short-Term Certificate Total Hours 9</b>					
<b>Advanced Electronics Short-Term Certificate Total Hours 9</b>					
<b>Basic Automation &amp; Controls Short-Term Certificate Total Hours 9</b>					
<b>Advanced Automation &amp; Controls &amp; Mechanics Short-Term Certificate Total Hours 9</b>					

\*Advisor's approval required

For Assistance with Financial Aid: <http://www.wallacestate.edu/financial-aid>

For transfer information to a four-year school: <http://stars.troy.edu/>



<b>FAME Short-Term Certificate Total Hours 11</b>					
*This option is in addition to the AAS Degree and only available for approved FAME students.*					
FAME STC	AUT 186 *	Principles of Industrial Maintenance Welding and Metal Cutting Techniques	3	As Needed	Required V
	MTT 147*	Introdocation to Machine Shop I	3	As Needed	Required V
	ILT 150*	Manufacturing Core Exercise 1	1	As Needed	Required V
	ILT 152*	Manufacturing Core Exercise 2	1	As Needed	Required V
	ILT 154*	Manufacturing Core Exercise 3	1	As Needed	Required V
	ILT 156*	Manufacturing Core Exercise 4	1	As Needed	Required V
	ILT 158*	Manufacturing Core Exercise 5	1	As Needed	Required V