



# PATHWAYS



**YOUR MAP TO  
COMPLETION for  
2024-2025**

## Electronics Technology Mechatronics

Associate in Applied Science / Certificate / Short-Term Certificate

Full Time	Course Prefix	Course Title	Credit Hours	Semesters Offered	Area
Semester 1	ILT 160	DC Fundamentals	3	Fa Sp Su	V
	ILT 161	AC Fundamentals	3	Fa Sp Su	V
	ILT 139	Introduction to Robotic Programming	3	Fa Sp Su	V
	ORI 110	Freshman Seminar	1	Fa Sp Su	IV
	CIS 149	Digital Literacy	3	Fa Sp Su	III
Semester 2	ILT 162	Solid State Fundamentals	3	Fa Sp Su	V
	ILT 163	Digital Fundamentals	3	Fa Sp Su	V
	ILT 197	Motor Controls I	3	Fa Sp Su	V
	ILT 164	Circuit Fabrication I	1	Fa Sp Su	V
	AUT 186 or CIS 199	Principles of Industrial Maintenance Welding & Metal Cutting Techniques or Network Communications	3	Fa Sp Su	V
	ENG 101	English Composition I	3	Fa Sp Su	I
Semester 3	ILT 194	Introduction to Programmable Logic Controllers	3	Fa Sp Su	V
	ILT 175	Computer Fundamentals for Technology Students	3	Fa Sp Su	V
	ILT 218	Industrial Robotics Concepts	3	Fa Sp Su	V
	ILT 240	Sensors Technology and Applications	3	Fa Sp Su	V
Semester 4	ILT 169	Hydraulics/Pneumatics	3	Fa Sp Su	V
	ILT 195	Troubleshooting Techniques I	3	Fa Sp Su	V
	ILT 196	Advanced Programmable Logic Controllers	3	Fa Sp Su	V
	*MTH 116	Mathematical Applications	3	Fa Sp Su	III
	*HUM 101	Introduction to Humanities I	3	Fa Sp Su	II
Semester 5	ILT 210	Mechatronics	3	Fa Sp Su	V
	ILT 102	Industrial Automation	3	Fa Sp Su	V
	MTT 147 or AUT 138	Introduction to Machine Shop I or Principles of Industrial Mechanics	3	Fa Sp Su	V
	*HIS 101	Western Civilization I	3	Fa Sp Su	IV

Electronics Technology Mechatronics AAS TOTAL HOURS 68

Mechatronics Certificate TOTAL HOURS 53

Basic Electronics Short-Term Certificate TOTAL HOURS 9

Intermediate Electronics Short-Term Certificate TOTAL HOURS 10

Advanced Electronics Short-Term Certificate TOTAL HOURS 12

Fundamentals of Automation & Controls Short-Term Certificate TOTAL HOURS 9

Fundamentals of Automation & Robotics Integration Short-Term Certificate TOTAL HOURS 9

\* May be substituted per Mechatronics Instructor's approval

**WALLACE STATE**  
HANCEVILLE • ONEONTA