

# ADVANCED MANUFACTURING ACADEMY

The Advanced Manufacturing Academy allows high school seniors to earn six college credits toward technical diplomas in **Electromechanical Maintenance Technician** and **Industrial Machine Controls**, as well as associate degrees in **Electromechanical Technology**, **IoT Integration Specialist**, and **Mechatronic & Robotic Engineering Technology**.

## COURSES OFFERED

Term	Course	Credits
First Session	Intro to Mechatronics	2
First Session	Industrial Electricity	2
Second Session	Intro to Industrial Control Systems	2
	<b>Total Credits</b>	<b>6</b>

## COURSES DESCRIPTIONS

**Intro to Mechatronics:** This course introduces microprocessor-controlled electromechanical systems. Learners explore individual components, their integration into simple systems, and the role of technicians in advanced manufacturing.

**Industrial Electricity:** This course covers fundamental DC and AC electricity concepts for industrial control systems, including electrical measurements, circuit configurations, transformers, and proper wiring practices. Topics also include residential wiring, soldering, and de-soldering techniques.

**Intro to Industrial Control Systems:** Learners are introduced to industrial computer-controlled systems, exploring programming with robots and PLCs, electronic inputs/outputs, and Ethernet communication. Lab experiments demonstrate automation principles in manufacturing.

## 2025-2026 SCHOOL YEAR:

**Spring Term–Wanek Center of Innovation, La Crosse**

**First 7-Week Session:** January 12 – February 27, 2026

**Second 7-Week Session:** March 9 – April 24, 2026

This program is perfect for hands-on, focused seniors exploring careers in Advanced Manufacturing. It accelerates degree completion while offering career pathway exploration. After completing the Academy, students can continue their education at Western or another technical college to earn a technical diploma or associate degree.

**Schedule:** Classes run Monday through Friday, 7:30–9:00 am:

- **15 weeks:** Industrial Electricity (hands-on course)
- **Mondays & Wednesdays:** Intro to Mechatronics and Intro to Industrial Control Systems (7-week SACA credential courses)
- **Fridays:** Career pathway experiences at local manufacturing businesses

All courses take place in the state-of-the-art Wanek Center for Innovation on Western’s La Crosse campus, featuring brand-new equipment and facilities.

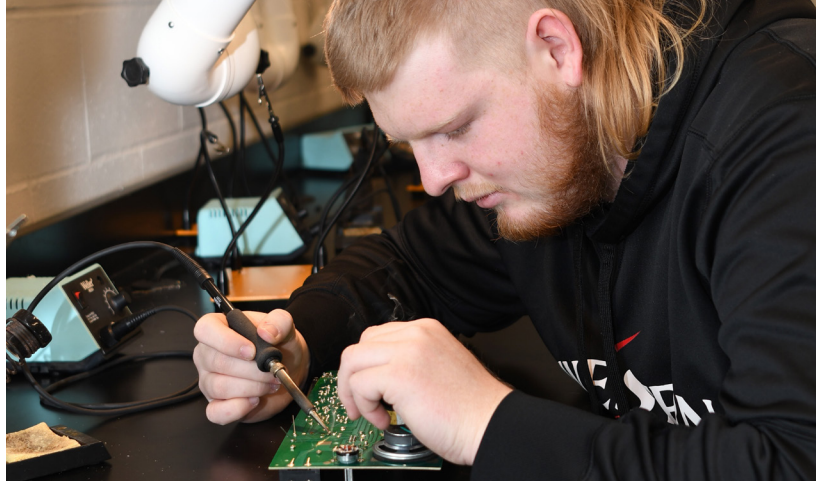
### For More Information

Contact your high school counselor or **Haley Bahr**

Western K12 Partnership Specialist  
bahrh@westernntc.edu

**Sign up for  
Academies here!**





# ADVANCED MANUFACTURING ACADEMY

## SCHEDULE:

**First Session: January 12 – February 27, 2026**

Time	Monday	Tuesday	Wednesday	Thursday	Friday
7:00 a.m.	Travel Time	Travel Time	Travel Time	Travel Time	Travel Time
7:30 a.m.	Intro to Mechatronics	Industrial Electricity	Intro to Mechatronics	Industrial Electricity	Industry Experiences/ Lab Time
8:00 a.m.	Hands-on Work	Hands-on Work	Hands-on Work	Hands-on Work	Hands-on Work
9:00 a.m.	Flexible Time	Flexible Time	Flexible Time	Flexible Time	Flexible Time
9:30 a.m.	Travel Time	Travel Time	Travel Time	Travel Time	Travel Time

**Second Session: March 9 – April 24, 2026**

Time	Monday	Tuesday	Wednesday	Thursday	Friday
7:00 a.m.	Travel Time	Travel Time	Travel Time	Travel Time	Travel Time
7:30 a.m.	Intro to Industrial Control Systems	Industrial Electricity	Intro to Industrial Control Systems	Industrial Electricity	Industry Experiences/ Lab Time
8:00 a.m.	Hands-on Work	Hands-on Work	Hands-on Work	Hands-on Work	Hands-on Work
9:00 a.m.	Flexible Time	Flexible Time	Flexible Time	Flexible Time	Flexible Time
9:30 a.m.	Travel Time	Travel Time	Travel Time	Travel Time	Travel Time