

## ABOUT THE PROGRAM

Change is constant. Change is rapid. In the world of manufacturing technology change brings more complex systems of assembly, control measurement, and material processing of manufactured products. If you're good at problem solving, like working with automated manufacturing equipment, and you're looking forward to work that continuously challenges you to keep growing your knowledge and skills—get started with the always-evolving career in electro-mechanical technology.

## PROGRAM OUTCOMES

- Perform work safely.
- Troubleshoot basic electrical and mechanical systems and devices.
- Repair basic electrical and mechanical systems.

## CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

Lakeshore credits transfer to over 30 universities. For more information visit [gotolakeshore.edu/future-students/transfer](https://gotolakeshore.edu/future-students/transfer).

## ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Complete Student Success Tutorial prior to meeting with your program counselor.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*\*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.*

## APPROXIMATE COSTS

\$149.50 per credit tuition (WI resident) plus \$8.97 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit [gotoltc.edu/financial-aid/tuition-and-fees](https://gotoltc.edu/financial-aid/tuition-and-fees) for details.

## FINANCIAL AID

This program is not eligible for financial aid. Talk with your Admissions Advisor about your payment options.

## RELATED PROGRAMS

- Certificate embedded in the Electro-Mechanical Automation Technology Associate degree
- Maintenance Mechanic
- Electro-Mechanical Maintenance Technician
- Manufacturing Engineering Technology
- Industrial Electrician Apprenticeship
- Maintenance Technician Apprenticeship

## CONTACT

Lakeshore Admissions Advisor  
920.693.1366 • [Admissions@gotoltc.edu](mailto:Admissions@gotoltc.edu)

Catalog No.	Class Title	Credit(s)
<b>COURSES</b>		
10620122	Industrial Wiring	2
10620155	Hydraulics and Pneumatics	3
10620169	Robotic Mechanical Maintenance	1
10804113	College Technical Math 1A	3
10462107	Tools and Measurement	1

**TOTAL 10**

*Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2024-2025 rates and are subject to change prior to the start of the academic year.*



**COLLEGE TECHNICAL MATHEMATICS 1A**...prepares the student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis will be on the application of skills to technical problems. COREQUISITE: Math placement assessment or equivalent

**HYDRAULICS AND PNEUMATICS**...prepares the learner to identify hydraulic and pneumatic component symbols and terms, adjust a pressure relief valve, analyze the operation of a pilot operated relief valve; analyze Pascal's law; evaluate flow, velocity, work and power in industrial hydraulic and pneumatic circuits;; analyze meter-in, meter-out, and bypass flow control circuits; identify basic hydraulic and pneumatic control valves; and assemble hydraulic circuits. COREQUISITE: 10804113 College Tech Math 1A

**INDUSTRIAL WIRING**...prepares the learner to follow safety procedures; maintain a safe and healthy work environment; construct electrical circuits; measure electrical quantities using a VOM and/or DVM; analyze measured values using electrical circuit laws; construct typical industrial control circuits; and analyze typical industrial control circuits.

**ROBOTIC MECHANICAL MAINTENANCE**...introduces the students to the robot teach pendant and robot jogging. Students will be taught to replace servo motors, recalibrate the robot and back up robot software and programs.

**TOOLS AND MEASUREMENT**...prepares the learner to use hand tools, precision measuring instruments, and torque tools.