Basic Hydraulics

Provides a basic understanding of the operation and maintenance of hydraulic components and systems. Topics covered in the classroom and in the lab setting: Principles of Hydraulics; Definitions and Terminology; Hydraulic Symbols and Schematics; Types of Circuits; Pumps (designs and applications); Motors (designs and applications); Cylinders (designs and application); Pressure, Direction and Flow Control Valves; Oil Filtration, Sampling and Fabrication; Fittings (use and identification).

Course Details:
- Day/Time: Thursdays, 4:15 PM – 7:15 PM
- Dates: October 6 – December 15, 2022 (10 weeks)
- Location: ATI Skou Hall Room 101 & 140
- Investment: $925.00 (Course fee, books & materials included)

Basic Industrial Electricity

Students will gain a basic understanding of the principles of electricity, electronic components, standards and schematics. Class and lab sessions will focus on the following: Personal and Equipment Safety, Definitions and Terminology; Basic Principles, Laws and Calculations, AC Principles, Wiring, Schematics and Codes; AC Motors, Lighting and other Equipment; Testing Instruments, Basic Troubleshooting and Repair (AC Equipment and DC/Electronic Equipment); DC Principles and Components; DC Circuits, Diagrams and Schematics; Electronics and Semiconductors.

Course Details:
- Day/Time: Thursdays, 1:00 PM – 4:00 PM
- Dates: September 15 – November 17, 2022 (10 weeks)
- Location: ATI Skou Hall Room 134
- Investment: $925.00 (Course fee, books & materials included)