Spring 2020 (January - March)

Course Schedule

Blueprint Reading
Provides basic skills for blueprint applications. Class sessions will focus on the following: Language of industry (universal language, common elements, care of blueprints, technique of reading blueprints); Drafting and Blueprint Reading Procedures (alphabet of lines, basic principles of projections, measurement tools).

Course Details:
- Day/Time: Mondays & Wednesdays 5:00 pm – 8:00 pm
- Date: January 13 – February 13, 2020
- Room: Halterman Hall 280
- Tuition: $695 + textbook

Basic Hydraulics
Provides a basic understanding of the operation and maintenance of hydraulic components and systems. Topics to be 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 5:00 pm – 8:00 pm
- Date: January 9 – March 12, 2020
- Room: Lecture: 5:00 – 6:00 (Skou Hall 232) & Lab 6:00 – 8:00 (Skou Hall 140)
- Tuition: $695 + textbook

Industrial Motors & Motor Controls
This course is intended for the participant with some working knowledge and/or experience in industrial electricity. Designed to help prepare participants for employment in the field of industrial electrical maintenance, this course consists of lecture, lab demonstration, and hands-on and software-based lab assignments. Areas covered include: Safety, Understanding electrical drawings, Motor transformer and distribution systems, Motor control devices, Motor principles, DC motors, Three phase AC motors, Single phase AC motors, Motor selection, Motor installation, Motor maintenance and troubleshooting, Motor starters, Relays and logic, Motor control devices and AC and DC drives. (Prerequisite: Basic Industrial Electricity)

Course Details:
- Day/Time: Thursdays 2:00 pm – 5:00 pm
- Date: January 9 – March 12, 2020
- Room: Skou Hall 134
- Tuition: $695 + textbook

To register please visit: go.osu.edu/ITC
Spring 2020 (March - May)

Course Schedule

Basic Welding *NEW COURSE*

This course will introduce the basic welding concepts of Shielded Metal Arc Welding (Stick) and Gas Metal Arc Welding (Mig) processes. Students will also have the opportunity to use Oxy-fuel cutting equipment. Basic safety will be included for all processes as well as basic joint setup, machine setup and proper usage of the equipment. Students will need to provide their own personal protective equipment including: Leather work boots, Flame Resistant Jacket, Long Pants (No nylon/polyester), Leather Welding Gloves, Welding Helmet, Clear Safety Glasses, Tinted Safety Glasses, Chipping Hammer, Wire Brush, Mig Welding Pliers and Welding beanie (optional).

Course Details:
➢ Day/Time: Mondays 5:00 pm – 8:00 pm
➢ Date: February 17 – April 20, 2020
➢ Room: Skou Hall 150
➢ Tuition: $995 (includes materials)

Advanced Hydraulics

A more in-depth look at hydraulic components and systems. Items to be covered will include complex systems of cartridge valves, proportional and servo controls, electrical feedback, closed and open loop control, and hydrostatic drives. Emphasis in the class and lab will be on understanding, troubleshooting and maintenance of these systems. (Prerequisite: Basic Hydraulics)

Course Details:
➢ Day/Time: Thursdays 5:00 pm – 8:00 pm
➢ Date: March 19 – May 21, 2020
➢ Room: Lecture: 5:00 – 6:00 (Skou Hall 232) & Lab 6:00 – 8:00 (Skou Hall 140)
➢ Tuition: $695 + textbook

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: Wednesdays 12:00 pm – 3:00 pm
➢ Date: March 4 – May 6, 2020
➢ Room: Skou Room 134
➢ Tuition: $695 + textbook

To register please visit: go.osu.edu/ITC