

Manufacturing

INDU 109 (5316) Blueprint Reading (Manufacturing)

Prerequisite: None

Credit Hours: 3

This course covers the interpretation of blueprints: visualizing the shape of objects from mechanical drawings, identifying different parts of the object in different views, knowing the size of any part of the object as taken from the drawing, identifying the name of common parts called for on the drawings, and knowing what kind of material and how many pieces of each part are required.

INDU 123 Advanced Applied Electronics II

Prerequisite: INDU 125 Fundamentals of Electronics

Credit Hours: 3

The course will include DC Power Supplies, Diodes, Transistors, Amplifiers, Troubleshooting, Operational Amplifiers, Oscillators, Integrated Circuits, Thyristors, Switch Mode Regulators, and AM/FM Radio Circuits.

INDU 125 (5311) Fundamentals of Electronics I

Prerequisite: None

Credit Hours: 3

Provides a fundamental knowledge of analysis techniques used to solve for current, voltage, wattage, and resistance in various D.C. circuits. Strong math skills required.

INDU 127 Digital Electronics

Prerequisite: INDU 125 Fundamentals of Electronics

Credit Hours: 3

Theory and experimentation with building block circuits in logic systems and computers in a hands-on environment. Small scale ICs are used to learn the basic fundamentals of these systems and subsystems. Simply analysis techniques are taught to build the student's ability to troubleshoot. Binary mathematics and Boolean concepts are introduced and explained as needed.

INDU 158 (0807) Introduction to Quality Control I

Prerequisite: None

Credit Hours: 3

An introduction to total quality control and the concentration benefits it brings to a modern organization. The course provides an understanding of the systems approach to quality, the economics that govern cost-effective systems management, how quality is organized, and how fundamental issues are involved in organizing.

INDU 164 (5700) Welding I

Prerequisite: None

Credit Hours: 3

This course will offer students basic principles of arc, mig, and oxyacetylene welding. The study of machines, electrodes, wires, metals, use of cutting torch, arc welders, wire welders, oxyacetylene practices as well as safety will be practiced.

INDU 165 (5701) Welding II

Prerequisite: INDU 164 Welding I or approval of instructor

Credit Hours: 3

This course will offer students advanced principles of arc, mig, and oxyacetylene welding. The study of machines, electrodes, wires, metals, use of cutting torch, arc welders, wire welders, oxyacetylene practices as well as safety will be practiced.

Reading Essentials Placement Scores: ACT 0-12, COMPASS 0-54

College Reading Placement Scores: ACT 13-16, COMPASS 55-74

No Reading Course Required Placement Scores: ACT 17 or Higher, COMPASS 75 or higher

IO = Infrequently Offered Course