

Credit Hours: 3

This course will provide lab practices of course INDU 127 with building block circuits in logic systems and computers in a hands-on environment. Small scale IC' are used to learn the basic fundamentals of these systems and subsystems. Analysis techniques are taught to build the student's ability to troubleshoot. Students will also successfully obtain an OSHA 10 certificate from an online source during the course.

INDU 210 Computer Aided Drafting & Design

Prerequisite: INDU 131 Engineering Graphics

Credit Hours: 3

This course will include the use of computer aided design software to generate complex 3-D geometry for the purpose of communicating the following: manufacturing information, detail design information, dimensioning and tolerance data, and surface finish. This course will teach the student more advanced drafting skills. It will take the skills developed in Engineering Graphics I and further develop those skills in the art of drafting. The student will be expected to develop acceptable skills in the art of drafting. Additionally, the following areas will be covered: geometric tolerances, auxiliary views, threads and fasteners, assembly and working drawings, the design process, and pictorial drafting techniques.

Management

MNGM 152 Leadership Training Techniques I

Prerequisite: None

Credit Hours: 3

Develop effective management/leadership skills through the study of various management philosophies, team building concepts, and the leadership characteristics of past and present prominent leaders.

Mathematics

MATH 88 (0811) Foundations of Math

Prerequisite: Placement Test Recommendation

Credit Hours: 3

This course is designed to help students improve their mathematical skills in the areas of whole numbers, fractions, decimals, measurement, and percents. The basic operations of addition, subtraction, multiplication, and division will be stressed in all areas. (Non transferable)

MATH 106 (1707) Applied Mathematics

Prerequisite: Placement Test Recommendation *or* C or better in MATH 88, Foundations of Math

Credit Hours: 3

This course is designed to help vocational students and other career minded students develop and refine job-related mathematical skills. The course includes material on arithmetic operations, problem solving techniques, estimation of answers, measurement skills, and geometry.

MATH 96 (1717) Beginning Algebra

Prerequisite: Placement Test Recommendation *or* C or better in MATH 88, Foundations in Math

Credit Hours: 3

This course will build skills in basic algebra concepts. Topics covered in the course will include the basic language and terms of algebra, rules for signed numbers, techniques for solving linear, quadratic, and literal equations, rules and properties of exponents as applied to algebraic expressions, and the graphing and solving of linear equations and linear systems in two unknowns. (Non transferable)

MATH 100 (1718) Intermediate Algebra

Prerequisite: Placement Test Recommendation *or* C or better in MATH 96, Beginning Algebra

Credit Hours: 3

*Refer to the Placement Testing Procedure 3.22, page 25 ** Refer to Course Transfer, page 20