

Industrial Distribution

Courses

IDIS 2302. Fluid Power. 3 Credit Hours (Lecture: 2 Hours, Lab: 2 Hours).

The study of the theory and application of pneumatic and hydraulic systems in industrial manufacturing processes. Specific topics include interpreting and drawing fluid circuits based on a standard symbol set; theory, namely the energy equation; components and component sizing; pros and cons of hydraulics and pneumatics, and in comparison to electrical systems; how such systems may be controlled at the subsystem level; and how such systems may be integrated into a larger or overall manufacturing process. Lab fee: \$2.

IDIS 2304. Mechanical Power. 3 Credit Hours (Lecture: 2 Hours, Lab: 2 Hours).

Covers principles of power transmission and motion control. The course includes current design innovations in components, systems, and manufacturing along with industry news and events. Lab fee: \$2.

IDIS 2305. Engineering Drawings and Documentation. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

Students learn to interpret paper and electronic engineering drawings and datasets. Drawings and solid models are analyzed via computer aided design system(s). Students inspect parts to specified tolerances. Product data management systems, specifications and standards, and production planning documents are explored. Students learn to compile bid packages.

IDIS 2306. Basic Electronics. 3 Credit Hours (Lecture: 2 Hours, Lab: 2 Hours).

An introduction to basic electronics with an overview of computer components, digital systems using counters, registers, code converters, multiplexers, analog-to-digital-to-analog circuits, and large-scale integrated circuits. Lab fee: \$2.

IDIS 3300. Basic Electricity. 3 Credit Hours (Lecture: 2 Hours, Lab: 2 Hours).

Principles of electricity, magnetism, and basic laws. Fundamentals of analog and digital electronic components and circuits, including applied areas. Laboratory involves experiments with basic circuits and test equipment. Lab fee: \$2.

IDIS 3302. Introduction to Industrial Distribution. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

As an introductory course to industrial distribution, this 2 credit hour course provides definitions and a history of industrial distribution, the types and range of products, lines of distribution, the function of manufacturers, distributors, and operations managers along with measures of effectiveness, and opportunities for employment and advancement.

IDIS 3330. Technical Sales. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

Sales and sales management techniques for analyzing distribution challenges and providing solutions through effective communication; establishing credibility, effective questioning techniques, developing solutions, presenting solutions, anticipating objections and gaining a commitment, plus techniques for building, developing and compensating an effective sales organization.

IDIS 3343. Logistics, Transportation, and Distribution. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

This course logistics network design, capacity planning and demand management, inventory and warehouse management, transportation systems. global logistics considerations, reverse logistics and sustainability. Upon completion of the course students will be prepared to pass the APICS CLTD exam.

IDIS 3344. Supply Chain Management. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

Four credit course. A study of purchasing fundamentals performed by personnel who have the responsibility for procurement of materials, equipment, and/or services in a wholesale distribution environment. Upon completion of this course, students will be prepared to pass the APICS CPIM Part 1 and 2 exams.

IDIS 4334. Quality for Industrial Distribution. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

Introduction to decision making for industrial distribution using quantitative methods. The emphasis will be on identifying opportunities for process/product improvement in manufacturing using statistical applications. Besides exploratory data analysis, basic probability, distribution theory and statistical inference will be covered. Special topics will include experimental design, regression, control charts and acceptance sampling. Prerequisite: MATH 1342 or BUSI 2311.

IDIS 4350. Strategic Planning and Data Analysis. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

This course provides an overview of strategic planning and data analysis techniques and applies tools learned to industrial distribution scenarios. Prerequisites: BUSI 2311 or MATH 1342 and IDIS 4334.