

# INDUSTRIAL ENGINEERING TECHNOLOGY (IET)

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## IET 101: Manufacturing Materials, Processes, and Laboratory

3 Credits

Mechanical properties of materials; primary processing methods used in manufacturing; ferrous and nonferrous metals; important plastic plus ceramic materials; dimensional verification and measurements; mechanical properties evaluation; laboratory methods; statistical interpretation of data.

## IET 215: Production Design

2 Credits

The study of manufacturing processes for the purpose of part creation and/or part feature creation using both current and advanced technologies.

**Enforced Prerequisite at Enrollment:** IET 101 or MET 105

## IET 216: Production Design Laboratory

2 Credits

Laboratory methods in production design including conventional and advanced manufacturing processes, computer applications, and automation/robotics.

**Enforced Concurrent at Enrollment:** IET 215

## IET 297: Special Topics

1-9 Credits/Maximum of 9

Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.

## IET 308: Statistical Quality Control

3 Credits

Fundamentals of probability and statistics, introduction to quality control fundamentals, control charts, acceptance sampling.

## IET 311: Elements of Metallurgy

3 Credits

Introduction to metallurgical concepts, metallurgical testing, phase diagram studies, heat treating concepts, ferrous and nonferrous systems.

**Enforced Prerequisite at Enrollment:** ET 322

## IET 321: Manufacturing Processes

3 Credits

Manufacturing processes for producing metal, plastic, and ceramic items. Primary emphasis is placed on machine tool processes.

## IET 333: Engineering Economics for Technologists

2 Credits

Fundamentals of engineering economics; equivalence and rate of return analysis; replacement models; depreciation and tax considerations; and economic decision making for technologists.

**Enforced Prerequisite at Enrollment:** MATH 26 or MATH 40 or MATH 41 or MATH 83 or MATH 140