

# INDUSTRIAL TECHNOLOGY (INT)

## INT 590 INDEPENDENT STUDY

1-3, 0/0

## INT 594 TECHNICAL LABORATORY MANAGEMENT AND OPERATION

1-3, 2/2

Graduate workshop in Industrial Technology.

## INT 601 ENGINEERING ECONOMY

3, 3/0

Prerequisite: Graduate status. Alternatives in processing, equipment selection, operation, and output in comparison to the various methods of production available currently or in the future.

## INT 602 OPERATIONS MANAGEMENT (ADVANCED SYSTEMS ANALYSIS)

3, 3/0

Prerequisite: Graduate status. Concepts and analytical techniques of comprehensive systems for operations management; quantitative methods in practical situations; modeling, computer interactive analysis, and nonsteady state situations; data streams; sthing; forecasting; cyclic components; feedback.

## INT 610 MANAGERIAL MARKETING

3, 3/0

Prerequisite: Graduate status. Corporate and marketing strategy in a firm; the effect of product, distribution, pricing, and promotion strategy on corporate success; performance evaluation of a plan, including information gathering, analysis, and action.

## INT 611 NETWORK THEORY

3, 3/0

Prerequisite: Graduate status. Network-based management systems; management training in network planning; timely and cost-effective supervision of tasks and activities; exposure to a variety of project configurations. Term project required.

## INT 612 QUALITY CONTROL MANAGEMENT

3, 3/0

Prerequisite: TEC 313 or equivalent. Process control; parametric and nonparametric techniques; sampling program development; establishing quality policy; selling quality in the organization; design of experiments; developing vendor relations; quality planning.

## INT 630 WORK MEASUREMENT

3, 3/0

Prerequisites: Graduate status and TEC 405 or equivalent. Methods of work-measurement systems; development and application of time standards and incentive programs.

## INT 651 COMPUTERIZED INDUSTRIAL SYSTEMS

3, 3/0

INT 651

## INT 652 INTEGRATED INDUSTRIAL SYSTEMS

3, 3/0

INT 652

## INT 659 INTEGRATED INDUSTRIAL SYSTEMS

3, 2/3

Prerequisite: Appropriate business systems and technical-level coursework necessary for acceptance to an industrial technology master's program. Application, justification, and implementation of integrated industrial systems: establishment of database systems; specific computerized industrial systems; integrated industrial systems; flexible manufacturing.

## INT 660 ENERGY SYSTEMS

3, 3/0

INT 660

## INT 661 MANUFACTURING PROPERTIES OF MATERIALS

3, 3/0

Prerequisites: TEC 201, TEC 311, or equivalent. Selection and classification of materials and methods of manufacturing; choosing an economical fabrication procedure based on the physical properties of the material.

## INT 662 MANUFACTURING CASE STUDY

3, 3/0

Prerequisite: Graduate status. Case studies of contemporary industrial manufacturing operations: comprehensive analysis of facilities; production planning; process; production; quality control; human/machine scheduling; managed activities.

## INT 670 PRODUCTION AND INVENTORY MANAGEMENT

3, 2/3

Prerequisite: Graduate status. Principles and techniques of production and inventory management; typical problems; applications.

## INT 675 JUST-IN-TIME MANUFACTURING

3, 3/0

Prerequisite: Graduate status. Principles and techniques of small lot production; techniques that make small lot production economical.

## INT 685 RESERACH DESIGN AND METHODOLOGY

1, 1/1

INT 685

## INT 689 RESEARCH DESIGN AND METHODOLOGY

3, 3/0

Prerequisite: Completion of 9 credit hours of graduate study in industrial technology. Research methodology; technical proposal and project/thesis development; data collection and analysis in an industrial facility; technical presentation; skill enhancement.

INT 690 MASTER'S PROJECT

1-3, 3/0

A study undertaken by one or more individuals on a problem of special interest submitted in acceptable form according to directions given by the Technology Department.

INT 695 MASTER'S THESIS

1-6, 0/0

Individual investigation of an original problem submitted in acceptable form according to directions given by the Graduate School. Problem and procedure must be approved by the student's graduate adviser, the MSIT advisory committee, and the department chair before the investigation is begun.

INT 721 THESIS/PROJECT CONTINUATION

0, 0/0

INT 722 THESIS/PROJECT EXTENDED

0, 0/0