

INDUSTRIAL ENGINEERING

<https://ie.nyu.edu/miami.edu/index.html>

Dept. Code: IEN

Overview

Industrial Engineering combines science and technical knowledge with human sciences to design, plan, and analyze systems that involve people, materials, money, energy, equipment, and other resources. Industrial engineers work with personnel in research and development, accounting, engineers in other disciplines, maintenance, human resources, and production to increase organizational productivity, improve quality, reduce health care costs, conserve energy, develop public transportation systems, and improve industrial safety conditions. Industrial engineering distinguishes itself from other engineering professions because it has applications in manufacturing, service, commercial, and governmental activities. It is the major branch of engineering concerned not only with technology, but with people, making industrial engineers a prime source of management talent.

Through consultation with his/her academic advisor, a student is assisted in choosing electives which will prepare him/her for a degree of specialization compatible with his/her future goals. The available concentrations are Engineering Management and Manufacturing. Specific courses required in each concentration are described in Degree Programs Section.

The Department of Industrial Engineering offers graduate programs in addition to the:

- Master of Science in Industrial Engineering
- Master of Science in Environmental Health and Safety
- MSIS/MSBA Weekend Executive Program (in conjunction with the School of Business)
- Master of Science in Management of Technology (in conjunction with the School of Business)

The Department also offers:

- a Ph.D. program in Ergonomics
- a Ph.D. in Industrial Engineering

For further information, see the Bulletin of the Graduate School (<http://bulletin.miami.edu/graduate-academic-programs/engineering/industrial-engineering/>).

Bachelor of Science in Industrial Engineering

The curriculum includes required courses in mathematics and the physical sciences that ensure a firm scientific background while advanced departmental courses provide specialization. Required courses in the people and society - humanities and arts give students the social, ethical and ecological awareness needed in their profession. The courses are designed with the prerequisite structure in mind so that students have to draw from previously acquired knowledge to successfully complete upper level course requirements.

The engineering design experience is interwoven in the curriculum throughout the students' four years of study:

- Starting with IEN 111 **Introduction to Engineering I** and IEN 112 **Introduction to Engineering II**, an introduction to Engineering graphics, Auto CAD, MATLAB, C++, advanced Excel and Access are given.
- The students then move on to take IEN 201 **Methods Analysis and Work Measurement** where they perform work measurement projects in industry, write reports, and make oral presentations to management. In the Spring of their Junior year, the students take IEN 353 **Project Management for Engineers** and they are exposed to techniques and tools in project management such as use of network flow and MS Project.
- Students take IEN 301 **Industrial Cost Analysis** and IEN 340 **Engineering Economy** where they become aware of the impact of productivity on the economic and social well-being of industry and countries. The students are also introduced to basic models of decision making such as the formulation and evaluation of an economic strategy.
- IEN 406 **Computer-Aided Manufacturing** introduces the students to product design in manufacturing and modern concepts of CAD/CAM/ Automation.
- IEN 441 **Deterministic Models in Operations Research** focuses on the formulation of linear programming problems and solutions by the simplex method. Related topics include sensitivity analysis, duality theory and network programming. Engineering applications are emphasized.
- IEN 442 **Stochastic Models in Operations Research** focuses on basic concepts and techniques of random processes that are used to develop models for a variety of engineering and managerial problems. Topics include the Poisson Process, Markov chains, renewal theory, queueing models, and reliability.
- IEN 465 **Production and Inventory Control** provides a thorough treatment of modern production and inventory management policies, and their ramifications on supply chain management.
- Theory and applications of decision support systems in industrial engineering are covered in IEN 524 **Decision Support Systems in IE**. The topics include the study of model-based data-based, knowledge-based, and communication-based decision support systems.

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