

IE Course Prerequisites

Sophomore

Color Legend

Required Courses

Core Electives

MATH 203
Introduction to Probability

MATH 306
Statistical Modelling

ENS 208
Int.to Industrial Engineering

MATH 201
Linear Algebra

CS 201
Introduction to Computing

ENS 205
Intro. to Materials Science

ENS 209
Intr.to Comp.Aided Draft&Solid

IE 311
Operations Research I

Junior

IE 306
Human Factors Engineering

IE 305
Simulation

IE 312
Operations Research II

IE 304
Prod.& Serv.Sys Plan&Design

IE 309
Manufacturing Processes I

IE 303
Decision Economics

IE 308
Cost Analysis & Control

IE 313
Operations Research III

Senior

IE 403
Quality Planning & Control

IE 405
Decision Analysis

IE 401
Produc.&Service Sys.Operations

IE 420
Storage & Distribution Sys.

IE 407
Investment Decision Making

IE 412
Financial Engineering

IE 432
Stochastic Models in Finance

IE 409
Project Scheduling & Management

IE 419
Total Quality Management

IE 408
Rel. & Maint. Analysis

IE 451
Data Visualization & Analysis

IE 425
Computational OR.

IE 411
Modeling & Anal. of Large Sys.

IE 430
Logistics Sys. Plan. & Design

IE 471
Supply Chain Practice

IE 454
Supply Chain Analysis

IE 414
Manufacturing & Digitalization Str.

IE 417
Facilities & Mat. Handling Design

IE 415
Decision Support Systems

IE 418
Manufacturing Processes II

IE 402
Integrated Manuf. Sys.

IE 416
Additive Manufacturing

IE 413
Information Systems

IE 472
Strategic Decision Making Practice

