

# IE Course Prerequisites (2019-2020 FALL)

Sophomore

Color Legend

Required Courses

Core Electives

ENS 208  
Int.to Industrial  
Engineering

MATH 201  
Linear Algebra

CS 201  
Introduction to  
Computing

MATH 203  
Introduction to  
Probability

ENS 205  
Intro. to Materials  
Science

ENS 209  
Intr.to Comp.Aided  
Draft&Solid

IE 311 (IE 301)  
Operations  
Research

MATH 306  
Statistical  
Modelling

Junior

IE 303  
Decision  
Economics

IE 312  
Operations  
Research I

IE 304  
Prod.& Serv.Sys  
Plan&Design

IE 302  
Stochastic Models  
in OR

IE 305  
Simulation

IE 306  
Human Factors  
Engineering

IE 309  
Manufacturing  
Processes I

IE 308  
Cost Analysis &  
Control

IE 401  
Produc.&Service  
Sys.Operations

Senior

IE 420  
Storage &  
Distribution Sys.

IE 405  
Decision Analysis

IE 403  
Quality Planning &  
Control

IE 407  
Investment  
Decision Making

IE 412  
Financial  
Engineering

IE 432  
Stochastic Models  
in Finance

IE 409  
Project Scheduling  
& Management

IE 430  
Logistics Sys.  
Plan. & Design

IE 471  
Supply Chain  
Practice

IE 454  
Supply Chain  
Analysis

IE 414  
Manufacturing  
Strategies

IE 417  
Facilities & Mat.  
Handling Design

IE 415  
Decision Support  
Systems

IE 411  
Modeling & Anal.  
of Large Sys.

IE 425  
Computational  
OR.

IE 408  
Rel. & Maint.  
Analysis

IE 419  
Total Quality  
Management

IE 451  
Data Visualization  
& Analysis

IE 418  
Manufacturing  
Processes II

IE 402  
Integrated Manuf.  
Sys.

IE 416  
Additive  
Manufacturing

IE 413  
Information  
Systems

IE 472  
Strategic Decision  
Making Practice

