

Approved MEng IEOR Technical Electives
Updated 10/25/2018

IND ENG 215 Analysis and Design of Databases 3 Units
IND ENG 220 Economics and Dynamics of Production 3 Units
IND ENG 221 Introduction to Financial Engineering 3 Units
IND ENG 222 Financial Engineering Systems I 3 Units
IND ENG 223 Financial Engineering Systems II 3 Units
IND ENG 224 Portfolio and Risk Analytics 3 Units
IND ENG C227A Introduction to Convex Optimization 4 Units
IND ENG C227B Convex Optimization and Approximation 3 Units
IND ENG 231 Introduction to Data Modeling, Statistics, and System Simulation 3 Units
IND ENG 240 Optimization Analytics 3 Units
IND ENG 241 Risk Modeling, Simulation, and Data Analysis 3 Units
IND ENG 242 Applications in Data Analysis 3 Units
IND ENG 248 Supply Chain Innovation, Strategy, and Analytics 3 Units
IND ENG 250 Introduction to Production Planning and Logistics Models 3 Units
IND ENG 251 Facilities Design and Logistics 3 Units
IND ENG 252 Service Operations Management 3 Units
IND ENG 253 Supply Chain Operation and Management 3 Units
IND ENG C253 Supply Chain and Logistics Management 3 Units
IND ENG 254 Production and Inventory Systems 3 Units
IND ENG 258 Control and Optimization for Power Systems 3 Units
IND ENG 261 Experimenting with Simulated Systems 3 Units
IND ENG 262A Mathematical Programming I 4 Units
IND ENG 262B Mathematical Programming II 3 Units
IND ENG 263A Applied Stochastic Process I 4 Units
IND ENG 263B Applied Stochastic Process II 3 Units
IND ENG 264 Computational Optimization 3 Units
IND ENG 265 Learning and Optimization 3 Units
IND ENG 266 Network Flows and Graphs 3 Units
IND ENG 267 Queueing Theory 3 Units
IND ENG 268 Applied Dynamic Programming 3 Units
IND ENG 269 Integer Programming and Combinatorial Optimization 3 Units
IND ENG 290 Special Topics in Industrial Engineering and Operation Research 3 Units
- Modern Optimization for Statistical Learning
- Applied Data Science with Venture Applications
IND ENG 290A Dynamic Production Theory and Planning Models 3 Units
IND ENG 290G Advanced Mathematical Programming 3 Units
IND ENG 290R Topics in Risk Theory 3 Units