Graduate Program in Operations Research & Industrial Engineering
The University of Texas at Austin

Concentration in Decision Analysis
Approved Electives

The courses listed below are pre-approved electives for the Concentration in Decision Analysis. Electives not listed will be considered by Prof. Bickel. Some of the courses listed below as electives are required to obtain the PhD Concentration.

The timing listed (i.e., the semester) is not a guarantee. Some courses are not offered every year. The student must check to see when courses are offered. ORIE does not maintain a calendar for courses offered outside of ORIE.

Some of the courses listed below many require instructor approval.

Operations Research & Industrial Engineering
Nonlinear Programming (ORI 391Q.1, Spring) – Required for PhD
Applied Stochastic Processes (ORI 390R.5, Spring) – Required for PhD
Markov Decision Processes (ORI 390R.16, Spring) – Required for PhD
Stochastic Optimization (ORI 391Q.10)
System Simulation (ORI 390R.9)
Computational Optimization (ORI 397)
Time Series Modelling, Analysis & Control (ORI 390R.3)

Business
Business Analytics and Decision Modeling (STA 287, Fall)
Decision-Support Modeling (MIS 383N, Spring)
Financial Management (BA 285T, 3 hours, Fall)
Introduction to Risk Management (RM 375E, Fall)
Managing International Risk (RM 395.7, Fall)
Statistics (BA 386T, Fall)
Valuation (FIN 286, Fall)
Organizational Decision Making (MAN 390.6)
Strategic Processes and Decision Making (MAN 393)
Financial Accounting (BA 284T, Fall)

Economics
Microeconomics I (ECO 387L.1, Fall) – Required for PhD
Microeconomics II (ECO 387L.3, Spring) – Required for PhD
Macroeconomics I (ECO 387L.2, Fall)
Macroeconomics II (ECO 387L.4, Spring)
Mathematical Economics (ECO 387L.24, Fall)
Econometrics I (ECO 392M.2)
Introduction to Game Theory (ECO 387L.27, Fall)

Electrical Engineering, Mechanical Engineering, Aerospace Engineering
Linear Systems Analysis (ASE 381.P1, Fall)
Introduction to System Theory (EE 380K)

Statistics
Statistical Modeling I (SDS 383C, Fall)
Statistical Modeling II (SDS 383D, Spring) – Required for PhD
Bayesian Statistical Methods (SSC 384.7, Spring)
Time Series and Dynamic Modelling (SSC 389)