DECISION SCIENCES (DS)

DS 101. Data Analysis for Managers. 3 Units
Prerequisite(s): MATH 24, STAT 1; must be a business pre-major, business major (any concentration), or business minor, and have at least sophomore standing.
Term Typically Offered: Fall, Spring

Second course in business statistics that focuses on the application of statistical methods to business problems. Emphases are placed on case studies, data analysis, model building techniques, statistical reasoning, and communications of statistical results. A statistical computer package will be used in the course.

DS 110. Data Mining for Business Analytics. 3 Units
Prerequisite(s): DS 101 or STAT 103 or ENGR 115 or equivalent. Business, Computer Science, and Mathematics are approved majors to enroll in the course.
Term Typically Offered: Fall, Spring

Data mining methods including data visualization, classification (logistic regression, discriminant analysis), tree-based methods, cluster analysis, principle components analysis, factor analysis, neural networks, classification and regression trees, and facilitated through software. Focus on applications in the business environment.

DS 115. Management Science Techniques. 3 Units
Prerequisite(s): MATH 24, STAT 1; must be a business pre-major, business major (any concentration), or business minor, and have at least sophomore standing.
Term Typically Offered: Fall, Spring

Introduction to management science techniques for the solution and analysis of management problems. Topics include mathematical programming, decision theory, analysis of waiting lines, simulation, and Markov processes.