DECISION SCIENCES (DS)

DS 101. Introduction to Business Analytics.

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

Introductory course in business analytics that focuses on the application of analytics linking data to business decisions.

DS 105. Decision Analytics.

3 Units

Prerequisite(s): MATH 24, STAT 1 Term Typically Offered: Fall, Spring

Introduces students to decision models for the solution and analysis of business problems. Topics include mathematical programming, decision theory, analysis of waiting lines, simulation, and Markov processes.

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.

OS 115. Advanced Business Analytics.

3 Units

Prerequisite(s): DS 110. Business, Computer Science, and Mathematics are approved majors to enroll in the course.

Term Typically Offered: Fall, Spring

This course introduces students to more advanced topics in business analytics including Neural Networks, Deep Learning, Text Mining, Social Network Analytics, Computer Vision, and their applications in business.