BDA

Decision Analytics

**BDA 510: Advanced Data Analysis and Decision Making**

By successfully completing this course, the student will have an understanding of the ways in which advanced statistical methods are used to address significant decision-making problems as they arise in the business setting. Specifically, the student will understand the various ways in which decision problems can be formulated and solved and how to deal with violations of the assumptions commonly found in standard methods. The student will have a greater understanding of multivariate models and ways to build them, and how to handle data collected over time in looking for trends and in making predictions.

3 credits, Letter graded (A, A-, B+, etc.)

**BDA 513: Decision Analysis under Uncertainty**

This is a hands-on course on computer simulation and other probabilistic modeling approaches to analyze and improve business, service, and manufacturing systems that are subject to risk. The course takes the perspective of the consultant whose job is to analyze managerial decision based on imperfect observations and unknown outcomes to understand the behavior of the system and explore the effects of alternative decisions.

3 credits, Letter graded (A, A-, B+, etc.)