Master of Decision Analytics

The Master of Decision Analytics provides students with knowledge of quantitative skills and experience in analyzing problems arising in a business environment. Depending upon individual student interests and advisor approval, the required nucleus is supplemented with relevant elective courses from within the School of Business or from outside departments.

Curriculum

Prerequisite: All students must have completed a course in Calculus (SCMA 212 or SCMA 500) prior to attempting graduate business courses. This prerequisite can be met after admission to the program.

Foundation Courses: Students must complete up to four classes (0 to 12 credit hours) of work from the following list. All or some of the foundation courses may be waived for students who have completed the equivalent undergraduate coursework with no less than a “C” grade.

Required (1): SCMA 524 Statistical Fundamentals for Business Management
Plus three of the following (3):

ACCT 507 Fundamentals of Accounting
ECON 500 Concepts in Economics
FIRE 520 Financial Concepts of Management

Required Core Courses (5):

INFO 614 Data Mining
INFO 664 Business Intelligence

INFO 610 Analysis and Design of Database Systems
INFO 611 Data Re-engineering
INFO 616 Data Warehousing

ACCT 608 Managerial Accounting Concepts
ECON 501 Introduction to Econometrics
ECON 610 Managerial Economics
ECON 612 Econometrics
FIRE 629 Real Estate Investment Analysis
FIRE 635 Investments and Security Analysis

MGMT 540 Management Theory and Practice
MGMT 570 Concepts and Issues in Marketing
SCMA 530 Fundamentals of the Legal Environment of Business

Approved Electives (5): Students must select five electives (15 credit hours) from the approved elective list (below) or other graduate courses that meet the approval of the faculty advisor to count as elective courses.

ACCT 608 Managerial Accounting Concepts
ECON 501 Introduction to Econometrics
ECON 610 Managerial Economics
ECON 612 Econometrics
FIRE 629 Real Estate Investment Analysis
FIRE 635 Investments and Security Analysis

INFO 610 Analysis and Design of Database Systems
INFO 611 Data Re-engineering
INFO 616 Data Warehousing
MGMT 642 Business Policy and Strategy
MGMT 697 Guided Study in Management

OPER 528 Stochastic Simulation
OPER/STAT 636 Machine Learning Algorithms
OPER 643 Decision and Risk Analysis
OPER 643 Decision and Risk Analysis
SCMA 643 Applied Multivariate Methods
SCMA 648 Analytics for Organizational Decision-making

SCMA 648 Analytics for Organizational Decision-making
SCMA 669 Developing and Implementing Forecasting Methods for Business
SCMA 675 Operations Management