Quantitative Methods and Statistics (QMST)

This introductory course covers descriptive and inferential statistical techniques for business and economic decision making. Topics include measures of central tendency and dispersion, probability distributions, sampling distributions, confidence intervals, hypothesis testing, simple linear regression, and correlation analysis. Prerequisites: CIS 1323; MATH 1329 or equivalent. (MC).

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Business Statistics

QMST 3334. Statistical Modeling.
Students will learn to apply a broad range of statistical analysis techniques using statistical software in business decision-making. Topics include applied modeling techniques, such as regression modeling, time-series modeling and analysis of variance; non-parametric methods; quality control; and simulation. Prerequisite: QMST 2333.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Statistical Modeling

QMST 4373A. Applied Time Series.
This course will teach the fundamentals of time series methods to be applied on real-life data. The course focuses on application, however the methodology behind the models will also be discussed. Students will learn how to pick the appropriate method for the time series of interest. Prerequisites: Consent of instructor and department chair.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter
about Applied Time Series

QMST 4373B. Advanced Data Mining Topics.
This course will teach advanced techniques of data mining such as fuzzy approaches, memory-based reasoning, vector machines and genetic algorithms. Techniques will be applied to data sets expected in the business environment. Prerequisite: Consent of instructor and department chair.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter
about Advanced Data Mining Topics

QMST 5309. Statistical Methods for Business Analysis.
A study of probability, statistical reference, and regression analysis, and the use of these tools for the purpose of decision making in business and economics. This course does not earn graduate degree credit.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from Graduate GPA|Leveling
Grade Mode: Leveling/Assistantships
about Statistical Methods for Business Analysis

QMST 5332. Quantitative Methods.
A study of management science/operations research emphasizing theory and applications of evaluative, predictive, and optimizing models as applied to the management of product and service-oriented operations. Prerequisite: QMST 2333.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Quantitative Methods

QMST 5334. Advanced Statistical Methods for Business.
The course provides the quantitative foundation for business analysis and decision making. Topics include: regression analysis, mathematical programming, simulation and other analytical/modeling techniques with wide applicability in decision-making and problem solving in all functional areas of business. Prerequisite: B A 5353.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Advanced Statistical Methods for Business

QMST 5335. Introduction to Forecasting and Simulation.
Introduction to the concepts and principles of forecasting and simulation techniques as applies to planning and decision making in organizations. Topical coverage includes time series forecasting, casual forecasting, discrete event simulation, and continuous-event simulation techniques.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Introduction to Forecasting and Simulation