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

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

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.
Grade Mode: Standard Letter
about Applied Time Series
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

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. Prerequisites: Consent of instructor and
department chair.
Grade Mode: Standard Letter
about Advanced Data Mining Topics
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

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.
Grade Mode: Leveling/Assistantships
about Statistical Methods for Business Analysis
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

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

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

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 continues-event simulation techniques.
Grade Mode: Standard Letter
about Introduction to Forecasting and Simulation
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.