

# QUANTITATIVE BUSINESS ANALYSIS (QBA)

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## **QBA 5131 Quantitative Methods for Decision Making: Part I (1)**

Pre-requisite(s): Admission to MBA program

Today's managers operate within the constraints of highly competitive markets. To plan effectively under these circumstances requires both rigorous analytical tools and a sophisticated sense of how to balance the demands of oft-times conflicting constituencies. QBA 5131, using a mix of theory and case studies, enables students to develop a rich portfolio of tools to assist them in the planning process. The course seeks to develop students' technical skills in sampling, data analysis, and risk management tools essential to effective planning.

## **QBA 5132 Quantitative Methods for Decision Making: Part II (1)**

Pre-requisite(s): QBA 5131

In today's highly competitive markets, implementing decisions effectively requires both rigorous analytical tools and a sophisticated sense of how to balance the demands of oft-times conflicting constituencies. QBA 5132, using a mix of theory and case studies, enables students to develop tools essential to effective implementation. The course seeks to prepare students to use analytical tools including correlation analysis, regression analysis, and time series analysis.

## **QBA 5133 Quantitative Methods for Decision Making: Part III (1)**

Pre-requisite(s): QBA 5132

To effectively adapt to today's ever changing competitive environment requires both rigorous analytical tools and a sophisticated sense of how to balance the demands of conflicting constituencies. QBA 5133, using a mix of theory and case studies, enables students to develop a set of tools to help them adapt to an organization's changing needs. The course seeks to develop students' technical skills in linear programming, quality control and improvement, and experimental design.

## **QBA 5215 Statistical Analysis (2)**

Pre-requisite(s): Acceptance into the executive MBA program

Application of statistical reasoning and methods to business-oriented problems. Topics include descriptive statistics, sampling distributions, confidence intervals, hypothesis testing, simple and multiple regression, quality control, and nonparametric methods.

## **QBA 5302 Business Foundations - Statistics (3)**

This course is required for MBA and MSIS students who do not have an undergraduate degree in business from an AACSB accredited institution. The course will provide students with the business foundation in statistics which is expected of all business graduate students.

## **QBA 5330 Business Analytics for Decision Making (3)**

An introduction to analytical techniques in the three areas of business analytics – descriptive, prescriptive, and predictive – and their application to business decision making.

## **QBA 5435 Business Statistics (4)**

Statistical theories and techniques are applied to business situations. The use of theory and case studies enables students to develop technical skills in planning, analysis, and assessment of data to adapt to an organization's changing needs.

## **QBA 5V98 Special Studies In QBA (1-6)**

## **QBA 5V99 Thesis (1-9)**