

## **OPR 3300: QUANTITATIVE METHODS FOR ACCOUNTING**

OPR 3300 is designed to enhance your quantitative reasoning ability and make you more proficient in EXCEL spreadsheet modeling. The material in OPR 3300 will enable you to compete more effectively in the marketplace since it applies directly to Managerial Accounting and Cost Accounting functions within an organization.

OPR 3300 focuses on modeling methods and applications dealing with Enterprise Risk Management issues. In this course you will have the opportunity to model a wide variety of such applications, and will learn advanced features in EXCEL for solving these models.

### **List of Modeling Topics**

**1. Introduction**

How Operations Research and Statistical Models apply to Managerial and Cost Accounting functions

**2. Decision Making Under Uncertainty**

Basic Concepts and Issues of Risk

Modeling Applications: operations, marketing, strategic planning

**3. Optimization Models**

Basic Concepts and Sensitivity Analysis

Modeling Applications: resource allocation, scheduling, distribution, financial

**4. Review of Confidence Intervals Applied to Auditing**

Basic Concepts

Application: statistical estimation of book value errors

**5. Regression Analysis**

Basic Concepts of Simple and Multiple Regression

Modeling Applications: developing cost functions, IRS auditing

**6. Simulation (if time permits)**

Basic Ideas and Examples Dealing with Risk

Reading: Selected material for each topic or optional text is on reserve in the library.

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