# BA3360.002 SYLLABUS – SUMMER 2012

**Course:** BA 3360
**Title** : Managerial Methods in Decision Making Under Uncertainty
**Term** : Summer 2012

**Professor:** Levent Kaan, Ph.D.   - lkaan@utdallas.edu

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|---|---|---|---|
| **Office** | : SOM 2.409 | **Class Meetings** | : Tuesday & Thursday |
| **Office Hrs** | : TBD | **Class Hrs** | : 10:30 AM- 12:45 PM |
| **Text Message** | : 214-444-3882 | **Location** | : Main Campus - JSOM 2.115 |

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|---|---|
| **Teaching Assistant** | : Emre Ertan |
| **E-mail** | : emre.ertan@utdallas.edu |
| **Office** | : SOM 3.617 |
| **Office Hours** | : After Tuesday's class for 2 HRs |

**Textbook**: Modern Business Statistics with Microsoft Office Excel by D. R. Anderson, D. J. Sweeney, Thomas A. Williams, Cengage Learning, 4th Edition, 2012. ISBN-13 : 978-1-133-35747-6   ISBN -10: 1-133-35747-4

**Prerequisites**
BA 3351 & MATH 1326

## Course Description
This course introduces the concept of probability and statistics based on managerial decision-making methodology. Various exercises will be shown and software packages like Excel & Minitab will be utilized. Main Topics for this course include: summarizing and presenting data, probability theory, sampling, estimation, confidence intervals, hypothesis testing, regression, and ANOVA. Emphasis will be given to modeling and solving business problems in Finance, Marketing, Accounting, and Operations Management.

## Student Learning Objectives / Outcomes
A student successfully completing this course is expected to know how to collect, categorize, summarize, analyze, and present data. Student is expected to know basic probability concepts, sampling methods, estimation using confidence intervals, regression, and /or by using hypothesis testing. Student is expected to learn and use Minitab (and/or alternative software like SPSS, SAS, JMP, Excel etc.) during this course for data analysis and presentation.

| WEEKS | Days | Topics |
|---|---|---|
| Week 1 | May 31st | Introduction, Class Information , Introduction to Statistics and Data Gathering Methods Syllabus |
| Week 2 | June 5th & 7th | Descriptive Statistics: Tabular, Graphical & Numerical |
| Week 3 | June 12th & 14th | Describing the Relationship between two Variables, Correlation and Regression |
| Week 4 | June 19th & 21st | Probability |
| Week 5 | June 26th & 28th | Discrete & Continuous Probability Distributions |
| Week 6 | July 3rd & 5th | Sampling and Sampling Distribution, Interval Estimation |
| Week 7 | July 10th & 12nd | Hypothesis Testing, Statistical Inferences About Means and Proportions with Two Populations |
| Week 8 | July 17th & 19th | Inferences About Population Variances, Test of Goodness of Fit and Independence |

Revised on Wednesday, May 30, 2012

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| Week 9 | July 24th & 26th | Experimental Design & ANOVA |
|--------|------------------|------------------------------|
| Week 10 | July 31st & Aug 2nd | Linear and Multiple Regression |
| Week 11 | Aug 7th & 9th | Review |

**Final Test:** TBD ( August $11^{th}$ – $13^{th}$ )

**Grading Policy**

Homework & Pop Quiz (10):     40% (40 Points Each – Total of 400 Points)
Midterm Exam (1):             25% (250 Points) – In Class Test
Final:                        35% (350 Points) – Take Home Test
                              Total: 1,000 Points

**Course Policies**

Make Up Exams:     No make-up exams.
Extra Credit:      No extra credits will be given.
Late Work:         No late work accepted
Class Attendance:  100% class attendance expected for full understanding of this course.

**UT Dallas Syllabus Policies and Procedures**
The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.
Please go to **http://go.utdallas.edu/syllabus-policies** for these policies.

*The content in this syllabus is subject to change at the discretion of the Professor.*

Revised on Wednesday, May 30, 2012