

Business Analytics and Information Tech
COURSE NUMBER: 33:136:385
COURSE TITLE: STATISCAL METHODS IN BUSINESS

COURSE MATERIALS

Text: 1. Basic Business Statistics, 12th Edition

M.L. Berenson, D.M. Levine and T.C. Krehbiel
Prentice Hall, NJ.

2. Software for Data Analysis by John Chambers, Springer 2008
(PDF Downloadable from Rutgers Library for free).

CLASS ORGANIZATION & ADMINISTRATION

Software: EXCEL, in particular the Data Analysis pack, will be used throughout the course. In addition we will use R programming language to apply Statistical Methods in business applications.

Homework and Quizzes: Will be assigned. No late submission will be allowed.

Exams: There will be two midterm exams and one final examination. The final exam is comprehensive. Please note dates of the midterm exams and mark them in your calendar. No makeup exams will be available.

FINAL GRADE ASSIGMENT

HW and/or Quizzes	20%
Midterm 1	20%
Midterm 2	20%
Final exam	40%

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COURSE SCHEDULE

No		Date	Topic	Reading
1	T	Jan 22	Review of basic probability, Statistical Method Applications(SMA)	
2	F	Jan 24	Confidence Interval Estimation, SMA	Chapter 8
3	T	Jan 29	Hypothesis Testing: One Sample Tests, SMA	Chapter 9
4	F	Jan 31	Hypothesis Testing: Two-Sample Tests, SMA	Chapter 10
5	T	Feb 5	Analysis of variance, SMA	Chapter 11
6	F	Feb 7	Analysis of variance, SMA	Chapter 11
7	T	Feb 12	Analysis of variance, SMA	Chapter 11
8	F	Feb 14	Linear regression, SMA	Chapter 13
9	T	Feb 19	Linear regression, SMA	Chapter 13
10	F	Feb 21	Linear regression, SMA	Chapter 13
11	T	Feb 26	Linear regression, SMA	Chapter 13
12	F	Feb 28	Midterm 1	Chapter 13
13	T	Mar 5	Multiple regression, SMA	Chapter 14
14	F	Mar 7	Multiple regression, SMA	Chapter 14
15	T	Mar 12	Multiple regression, SMA	Chapter 14
16	F	Mar 14	Multiple regression, SMA	Chapter 14
	T	Mar 19	Spring Break	
	F	Mar 21	Spring Break	
17	T	Mar 26	Multiple regression model building, SMA	Chapter 15
18	F	Mar 28	Multiple regression model building, SMA	Chapter 15
19	T	Apr 2	Multiple regression model building, SMA	Chapter 15
20	F	Apr 4	Midterm 2	
21	T	Apr 9	Chi-square tests, SMA	Chapter 12
22	F	Apr 11	Chi-square tests, SMA	Chapter 12
23	T	Apr 16	Chi-square tests, SMA	Chapter 12
24	F	Apr 18	Chi-square tests, SMA	Chapter 12
25	T	Apr 23	Time series forecasting, SMA	Chapter 16
26	F	Apr 25	Time series forecasting, SMA	Chapter 16
27	T	Apr 30	Time series forecasting, SMA	Chapter 16
28	F	May 2	Review	
			Final exam	