

## Business Statistics and Data Analysis

Course Name	Course type (credit/hours)	교 필 (3/3)	Course code	1058
	Target students Division/major/grade	Maganement/Freshmen	Openning semester	2017 1ST SEMESTER
	Class time and classroom	월F(종합503) 목F(종합503)(종합503)	English Grade	A(100%English)
Reference to this course	Prerequisite courses	None		
	Related basic courses	Quantitative Business Analysis		
	Recommanded concurrent courses	None		
	Related advanced courses			

Instructor	Name (title/division)		성민제 (교수/경영대학 경영학과)		
	Office Room Number	다526	Office phone Number	2912	e-mail
	Office hours	TBA		Homepage address	
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

### 1. Introduction

### 2. Course Objectives

This course is an introduction to the basic statistical methods which are used both in the direct solution of managerial problems and as foundations for more advanced analytical methods. It satisfies the quantitative methods requirements of the common body of knowledge for business major.

### 3. Class types and activities

### 4. Teaching Method

<input checked="" type="checkbox"/> lecture	<input checked="" type="checkbox"/> discussion and debate
<input checked="" type="checkbox"/> team project(presentation and case studies)	<input type="checkbox"/> experiments(role-playing,etc)
<input type="checkbox"/> designing and production	<input type="checkbox"/> on-site learning(on-site training)
<input type="checkbox"/> others	

### 5. Support Systems in Use

<input checked="" type="checkbox"/> e-class	<input type="checkbox"/> automatic recording system	<input type="checkbox"/> web-based assignment
<input type="checkbox"/> cyber lecture	<input type="checkbox"/> blended learning(combination of online and offline teaching)	
<input type="checkbox"/> class behavior analyzing system	<input type="checkbox"/> others	

### 6. Teaching Tools

<input type="checkbox"/> PBL(Problem Based Learning)	<input type="checkbox"/> CBL(Case Based Learning)
<input type="checkbox"/> TBL(Team Based Learning)	<input type="checkbox"/> others

### 7. Knowledge and ability required for taking this course

The course has no explicit prerequisites in mathematics; however, the equivalent of high school algebra and calculus will be assumed. Basic knowledge of using spreadsheets such as Microsoft EXCEL is expected.

## 8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			1 point penalty for each unexcused absence
midterm exam		35%	
final exam		35%	
quiz		30%	Together with occasional Case analyses
presentation			
discussion			
homework			
etc			
study hours	5-7 hours		

## 9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Managerial Statistics, 9th Ed.	Keller	South-Western	2011

## 10. Class system and Class shedule

To facilitate logical flow and understanding, the lectures will be in the order of the following:	
Descriptive statistics.	
Probability theory	
Probability distribution	
Sampling distribution	
Inferencial statistics	
Correlation and regression	

### < Class Schedule >

\* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction to Statistics. Descriptive Statistics. Stem and Leaf Displays, Histograms, Box-Whisker Plots.		성민제	Lecture		
2	Excel Introductory. Basic Probability Theory. Other views of probability.		성민제	Lecture		

## < Class Schedule >

\* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Probability theory continued		성민제	Lecture		
4	Random Variables and Probability Models.		성민제	Lecture		
5	Discrete and Continuous Distributions. Binomial, Poisson, and Normal Distributions.		성민제	Lecture		
6	Sampling Distributions. Simulating from Probability Distributions. The Central Limit Theorem.		성민제	Lecture		
7	Midterm Exam		성민제	Test		
8	Point and Interval Estimation		성민제	Lecture		
9	Statistical Inference: Inference about a Single Population.		성민제	Lecture		
10	Statistical Inference: Inference about two populations. Inference from paired-samples. Chi-square Tests.		성민제	Lecture		
11	Simple Linear Regression and Correlation. Ordinary Least Squares. The Regression Model. Sampling Variability.		성민제	Lecture		
12	Multiple Regression.		성민제	Lecture		
13	Multiple Regression Models. Dummy (0-1) Variables. Analysis of Variance by Regression.		성민제	Lecture		
14	Business Ethics		성민제	Lecture		
15	Review		성민제	Lecture		
16	Final Exam		성민제	Test		

11. Other items of notification

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