

Introduction to Statistics

CREDIT	3	INSTRUCTOR	Seokjoo Andrew Chang
OFFICE		OFFICE HOURS	
TIME	09:00 ~ 10:40	CLASSROOM LOCATION	TBA
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[COURSE INFORMATION]

	This course introduces the fundamental statistical concepts and techniques to make	
	informed decision for a variety of real-world business and economic problems. The	
	course objective includes collection, visualization, summarization, and analysis of	
COURSE DESCRIPTION	statistical data to draw statistical inferences. We will discuss numerical summaries of	
& GOALS	qualitative and quantitative variables, random sampling theory, central limit theorem,	
	the normal distribution, one/two sample hypothesis testing, confidence intervals and	
	goodness-of-fit method. Applications of Software such as $MINITAB$ and R will be	
	demonstrated.	
PREREQUISITE		
COURSE REQUIREMENTS		
	Your grade is based on the following components:	
an i niva novvavi	Attendance & Assignments: 10%	
GRADING POLICY	Midterm Exam: 40%	
	Final Exam: 50%	
	Fundamentals of Statistics, 4 th <u>or</u> 5 th Edition by Michael Sullivan, Pearson	
	4 th edition ISBN-10: 032183870X ISBN-13: 9780321838704	
	5 th edition ISBN-10: 0134508300 ISBN-13: 978-0134508306	
TEXTS & NOTES		
	Note: Due to limited availability of textbooks at Yonsei Bookstore, it is strongly	
	encouraged to purchase/rent your textbook from online resources before you arrive at	
	YISS.	
	Seokjoo Andrew Chang is an Associate Professor of School of Business at State	
	University of New York at Albany. He received his MS in Economic Systems and	
	Operations Research from Stanford University and Ph.D. in Operations and Information	
INSTRUCTOR'S PROFILE	Management from University of Connecticut. His teaching/research interests include	
	Economics of Information Systems, Stochastic Decision Processes, Operations Research	
	and Forensic Data Analysis. His research papers have been published in journals such	
	as Management Information Systems Quarterly (MISQ), Decision Support Systems(DSS)	
	and Information Systems Frontiers (ISF).	



[WEEKLY SCHEDULE]

WEEK (PERIOD)	WEEKLY TOPIC & CONTENTS	COURSE MATERIAL & ASSIGNMENTS	NOTES
1	Data Collection 1.1 Introduction to the Practice of Statistics 1.2 Observational Studies versus Designed Experiments 1.3 Simple Random Sampling 1.4 Other Effective Sampling Methods 1.5 Bias in Sampling 1.6 The Design of Experiments Organizing and Summarizing Data 2.1 Organizing Qualitative Data 2.2 Organizing Quantitative Data: The Popular Displays	Chapter 1. Chapter 2. Please refer to Blackboard for lecture notes and assignments	
2	2.3 Graphical Misrepresentations of Data Numerically Summarizing Data		
	3.1 Measures of Central Tendency 3.2 Measures of Dispersion 3.3 Measures of Central Tendency and Dispersion from Grouped Data 3.4 Measures of Position and Outliers Describing the Relation between Two Variables 4.1 Scatter Diagrams and Correlation 4.2 Least-Squares Regression 4.3 Testing the Significance of the Least-Squares Regression Model 4.4 Analysis of Variance 4.5 The Coefficient of Determination 4.6 Contingency Tables and Association	Chapter 3. Chapter 4. Please refer to Blackboard for lecture notes and assignments	
3	Probability 5.1 Probability Rules 5.2 The Addition Rule and Complements 5.3 Independence and the Multiplication Rule 5.4 Conditional Probability and the General Multiplication Rule 5.5 Counting Techniques Discrete Probability Distributions 6.1 Discrete Random Variables 6.2 The Binomial Probability Distribution Midterm Exam	Chapter 5. Chapter 6. Please refer to Blackboard for lecture notes and assignments	



WEEK (PERIOD) WEEKLY TOPIC & CONTENTS The Normal Probability Distribution 7.1 Properties of the Normal Distribution 7.2 Applications of the Normal Distribution 7.2 Applications of the Normal Distribution 7.3 Assessing Normality Please refer to Please refer to Distribution Sampling Distributions 8.1 Distribution of the Sample Mean 8.2 Distribution of the Sample Proportion Estimating a Population Proportion 9.2 Estimating a Population Proportion 9.3 Estimating a Population Standard Deviation 9.4 Confidence and Prediction Intervals Hypothesis Tests Regarding a Parameter 10.1 The Language of Hypothesis Testing 10.2 Hypothesis Tests for a Population Proportion 10.3 Hypothesis Tests for a Population Mean 10.4 Hypothesis Tests for a Population Proportion 11.1 Inference about Two Means: Dependent Samples 11.2 Inference about Two Means: Dependent Samples 11.3 Inference about Two Means: Independent Samples 11.4 Goodness-of-Fit Test 12.2 Comparing Three or More Means (One-Way Analysis of Variance) Multivariate Regression - Testing the Significance of the Least-Squares Regression Model - Analysis of Variance	WEEK (PERIOD)		COURSE	
The Normal Probability Distribution 7.1 Properties of the Normal Distribution 7.2 Applications of the Normal Distribution 7.3 Assessing Normality Please refer to 7.4 The Normal Approximation to the Binomial Probability Distribution Sampling Distributions 8.1 Distribution of the Sample Mean 8.2 Distribution of the Sample Proportion Estimating the Value of a Parameter 9.1 Estimating a Population Proportion 9.2 Estimating a Population Standard Deviation 9.3 Estimating a Population Standard Deviation Please refer to Hypothesis Tests Regarding a Parameter 10.1 The Language of Hypothesis Testing 10.2 Hypothesis Tests for a Population Proportion 10.3 Hypothesis Tests for a Population Mean 10.4 Hypothesis Tests for a Population Proportion 10.3 Hypothesis Tests for a Population Standard Deviation Inferences on Two Samples 11.1 Inference about Two Means: Dependent Samples 11.2 Inference about Two Means: Independent Samples 11.3 Inference about Two Means: Independent Samples 11.4 Inference on Categorical Data 12.1 Goodness-of-Fit Test 12.2 Comparing Three or More Means (One-Way Analysis of Variance) Multivariate Regression Model - Least-Squares Regression - Testing the Significance of the Least-Squares Regression Model		WEEKLY TOPIC & CONTENTS	MATERIAL &	NOTES
7.1 Properties of the Normal Distribution 7.2 Applications of the Normal Distribution 7.3 Assessing Normality 7.4 The Normal Approximation to the Binomial Probability Please refer to Blackboard for Distribution 8.1 Distribution of the Sample Mean 8.2 Distribution of the Sample Proportion Estimating the Value of a Parameter 9.1 Estimating a Population Proportion 9.2 Estimating a Population Mean 9.3 Estimating a Population Standard Deviation 9.4 Confidence and Prediction Intervals Hypothesis Tests Regarding a Parameter 10.1 The Language of Hypothesis Testing 10.2 Hypothesis Tests for a Population Mean 10.3 Hypothesis Tests for a Population Mean 10.4 Hypothesis Tests for a Population Standard Deviation Inferences on Two Samples 11.1 Inference about Two Means: Dependent Samples 11.2 Inference about Two Means: Independent Samples 11.3 Inference about Two Means: Independent Samples 11.1 Goodness-of-Fit Test 12.2 Comparing Three or More Means (One-Way Analysis of Blackboard for Variance) Multivariate Regression - Testing the Significance of the Least-Squares Regression Model			ASSIGNMENTS	
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- Least-Squares Regression - Testing the Significance of the Least-Squares Regression Model		Variance)	lecture notes	
- Testing the Significance of the Least-Squares Regression Model		Multivariate Regression Model	and	
		- Least-Squares Regression	assignments	
- Analysis of Variance		- Testing the Significance of the Least-Squares Regression Model		
		- Analysis of Variance		
Final Exam		Final Exam		