

The University of Texas at Dallas
MATHEMATICAL SCIENCES DIVISION
SUMMER 2005
STAT 1342-521

Course Title	Statistical Decision Making	STAT 1342-521
Room	SOM 2.903	
Instructor	Dr. Yuly Koshevnik	
Time	Tuesday & Thursday 6:00 – 7:50 PM	
Office Hours	Tuesday & Thursday 4:15 – 5:45 PM	
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Suggested Email Format:		
To:	<u>Yuly.Koshevnik@utdallas.edu</u>	(Please, include your full name and contact information.)
Subject:	Student's Question (Notice etc.)	

PREREQUISITE College Algebra

COURSE OBJECTIVES

This course is aimed at giving students the knowledge of the ideas and practical tools of statistics.

TEXTBOOK

THE BASIC PRACTICE OF STATISTICS (3RD EDITION), DAVID S. MOORE
 (STUDY GUIDE FOR MOORE'S BASIC PRACTICE OF STATISTICS IS OPTIONAL)

EVALUATION PROCEDURES
There will be 3 (three) MIDTERM TESTS and FINAL EXAM during the semester. No make-up tests. The lowest test grade will be dropped. A missing test is considered as a zero score test. Two missed tests will result in the F-grade, regardless of the final. FINAL EXAM WILL TAKE PLACE ON THURSDAY JULY 28 AT 6:00 PM. Homework will be assigned EVERY WEEK. NO GRADE IS GIVEN FOR HOMEWORK. TWO HIGHEST MIDTERM TESTS (GRADED IN THE 100-POINT SCALE) CONTRIBUTE 30% AND THE MANDATORY FINAL EXAM CONTRIBUTES 40% INTO YOUR OVERALL SCORE.
WITHDRAWAL POLICY
LAST DAY TO DROP WITHOUT A "W" – THURSDAY, MAY 26 LAST DAY TO WITHDRAW WITH AN AUTOMATIC "W" – MONDAY, JUNE 27

GRADING SCALE:					
97 to 100	93 to 97	90 to 93	87 to 90	83 to 87	80 to 83
A+	A	A –	B+	B	B –
77 to 80	73 to 77	70 to 73	67 to 70	63 to 67	60 to 63
C+	C	C –	D+	D	D –
F		Below 60			

TENTATIVE COURSE OUTLINE

WK	TUE	THU	SECTIONS	HW ASSIGNMENT
1	MAY 17		EXPLORING DATA AND GRAPHING DISTRIBUTIONS (CHAPTER 1)	<u>CH. 1:</u> Ex. 1.8, 1.11, 1.25.
		MAY 19	SUMMARIZING DATA VIA DESCRIPTIVE STATISTICS (CHAPTER 2)	<u>CH. 2:</u> Ex. 2.7, 2.8, 2.9, 2.15
2	MAY 24		NORMAL DISTRIBUTION: DENSITY FUNCTION, MEAN, MEDIAN, QUANTILES, PROBABILITIES (CHAPTER 3)	<u>CH. 3:</u> Ex. 3.8, 3.9, 3.10, 3.12 – 3.16, 3.28, 3.29
		MAY 26	SCATTER PLOTS AND CORRELATION (CHAPTER 4)	<u>CH. 4:</u> Ex. 4.8, 4.10, 4.11, 4.13
3	MAY 31		LINEAR REGRESSION (CHAPTER 5)	<u>CH. 5:</u> Ex. 5.16, 5.18, 5.30
		JUNE 2	SUMMARY & MIDTERM TEST 1 (CH 1 – 5)	
4	JUNE 7		PRODUCING DATA (CHAPTERS 7 & 8)	<u>CH. 9:</u> Ex. 9.11, 9.14, 9.15, 9.17 – 9.19, 9.28, 9.29
		JUNE 9	PROBABILITY – INTRODUCTION, MODELS, RULES. NORMAL PROBABILITY (CHAPTER 9)	
5	JUNE 14		PARAMETERS AND STATISTICS, SAMPLING DISTRIBUTIONS, LAW OF LARGE NUMBERS (CHAPTER 10)	<u>CH. 10:</u> Ex. 10.4, 10.6, 10.9, 10.11, 10.17
		JUNE 16		
6	JUNE 21		PROBABILITY RULES, INDEPENDENCE AND CONDITIONAL PROBABILITIES (CHAPTER 11)	<u>CH. 11:</u> Ex. 11.19, 11.20, 11.27
		JUNE 23	BINOMIAL PROBABILITIES, MEAN AND SD (CHAPTER 12)	<u>CH. 12:</u> Ex. 12.16, 12.18, 12.22
7	JUNE 28		CONFIDENCE INTERVALS (CHAPTER 13)	<u>CH. 13:</u> Ex. 13.4, 13.5, 13.11, 13.12, 13.20
		JUNE 30	SUMMARY & MIDTERM TEST 2 (CH 7 – 12)	
8	JULY 5		SIGNIFICANCE TESTS (CHAPTER 14)	<u>CH. 14:</u> Ex. 14.2, 14.4, 14.9, 14.12, 14.15, 14.26, 14.30
		JULY 7	HYPOTHESIS TESTING (CHAPTERS 14 & 15) AND P-VALUE SECRETS	
9	JULY 12		INFERENCES ABOUT A POPULATION MEAN AND T-DISTRIBUTION (CHAPTER 16)	<u>CH. 15:</u> Ex. 15.5 – 15.8
		JULY 14	THE TWO-SAMPLE PROCEDURES FOR POPULATION MEANS (CHAPTER 17)	<u>CH. 16:</u> Ex. 16.3, 16.5, 16.7 – 16.9
10	JULY 19		SUMMARY & MIDTERM TEST 3 (CH 11 – 17)	<u>CH. 16:</u> Ex. 16.28 – 16.30
		JULY 21	SAMPLING DISTRIBUTION AND INFERENCES ABOUT A POPULATION PROPORTION (CHAPTER 18)	<u>CH. 17:</u> Ex. 17.5, 17.6 <u>CH. 18:</u> Ex. 18.9, 18.10, 18.18
11	JULY 26		PROPORTION COMPARISON (CHAPTER 19) AND FINAL REVIEW	<u>CH. 19:</u> Ex. 19.9 – 19.12
		JULY 28	FINAL EXAM AT 6 PM	GET READY FOR THE FINAL!