

**THE UNIVERSITY OF TEXAS AT DALLAS  
MATHEMATICAL SCIENCES DIVISION  
SPRING 2006 STAT 3360-002**

<b>COURSE TITLE</b>	<b>PROBABILITY AND STATISTICS FOR MANAGEMENT AND ECONOMICS</b>	<b>STAT 3360-002</b>
<b>ROOM &amp; TIME</b>	<b>GR 3.420</b>	<b>T Th 3:30 – 4:45 PM</b>
<b>INSTRUCTOR</b>	<b>YULY KOSHEVNIK</b>	
<b>TA / OFFICE</b>	<b>XUAN CHEN, FO 1.612</b>	SCHEDULE WILL BE ANNOUNCED LATER
<b>OFFICE HOURS</b>	<b>ECSN 3.916</b>	<b>T Th 5:00 – 5:30 PM</b>
<b>PHONE / EMAIL:</b>	<b>972-883-4178 (OFFICE)</b>	<b><u>Yuly.Koshevnik@utdallas.edu</u></b>

**PREREQUISITE:** MATH 1326

**COURSE GOALS:** INTRODUCTION TO **PROBABILITY THEORY** INCLUDING INDEPENDENCE, CONDITIONING, DENSITY FUNCTIONS, FREQUENTLY USED FAMILIES OF DISTRIBUTIONS, RANDOM VARIABLES, EXPECTATION, MOMENTS, AND THE CENTRAL LIMIT THEOREM;  
ELEMENTS OF **STATISTICAL INFERENCE** INCLUDING SAMPLING, ESTIMATION, HYPOTHESIS TESTING, AND REGRESSION.

**TEXTBOOK:** **STATISTICS FOR MANAGEMENT AND ECONOMICS**,  
BY KELLER AND WARRACK, ABBREVIATED 6<sup>TH</sup> EDITION  
**ISBN 0-534-39188-5**

**EVALUATION PROCEDURES**

**FOUR HOMEWORK ASSIGNMENTS, TWO MIDTERM TESTS AND FINAL EXAM**

<b>HOMEWORK ASSIGNMENTS</b>	CONTRIBUTE ALTOGETHER <b>10%</b>
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<b>TWO MIDTERM TESTS</b>	CONTRIBUTE <b>25% EACH</b>
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MISSED TESTS ARE GRADED AS ZEROS. NO MAKE-UP TEST. CHEATING IS NOT TOLERATED.

SHOW YOUR SOLUTIONS: NO GRADE WILL BE EARNED FOR PLAIN ANSWERS.

<b>FINAL EXAM</b>	CONTRIBUTES <b>40%</b>
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THE FINAL EXAM WILL BE COMPREHENSIVE AND OPEN BOOK

**WITHDRAWAL POLICY**

LAST DAY TO DROP A CLASS WITHOUT A “W”	<b>WEDNESDAY, JANUARY 25</b>
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LAST DAY TO WITHDRAW WITH AN AUTOMATIC “W”	<b>THURSDAY, FEBRUARY 16</b>
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**GRADING SCALE:**

[97, 100]	[93, 97)	[90, 93)	[87, 90)	[83, 87)	[80, 83)	[77, 80)
<b>A+</b>	<b>A</b>	<b>A –</b>	<b>B+</b>	<b>B</b>	<b>B –</b>	<b>C+</b>
[73, 77)	[70, 73)	[67,70)	[63,67)	[60, 63)	[0, 60)	
<b>C</b>	<b>C –</b>	<b>D+</b>	<b>D</b>	<b>D –</b>	<b>F</b>	

# TENTATIVE COURSE OUTLINE

(SUBJECT TO CHANGE)

WEEK AND MONTH		DAYS	TOPICS AND SECTIONS	HOMEWORK ASSIGNMENT
1	JAN	10, 12	INTRODUCTION – CH. 1 & 2	SEC. 2.1 – 2.2
2		17, 19	GRAPHICAL AND NUMERICAL SUMMARIES; PROBABILITY	SEC. 2.3 – 2.6
3		22, 24		SEC. 4.1 – 4.6; 6.1 – 6.3
4		31	PROBABILITY MODELS	SEC. 6.4 – 6.5
4	FEB	2	REVIEW (CH. 1 – 6)	
5		7	FIRST TEST	
		9	DISCRETE VARIABLES	SEC. 7.1 – 7.3
5		14, 16	PROBABILITY MODELS	SEC. 7.6 – 7.7, 8.1 – 8.3
6		21, 23	SAMPLING DISTRIBUTIONS	SEC. 9.1 – 9.3
7		28	ESTIMATION	SEC. 10.1 – 10.4
8		2		
8	7, 9	SPRING BREAK		
9	MAR	14, 16	HYPOTHESIS TESTING	SEC. 11.1 – 11.4
10		21, 23	INFERENCES ABOUT A POPULATION	SEC. 12.2 – 12.4
11		28, 30	REVIEW (CH. 7 – 11) / SECOND TEST	
12		4, 6	COMPARING TWO POPULATIONS	SEC. 13.2, 13.4, 13.5 – 13.6
13	APR	11, 13	SIMPLE LINEAR REGRESSION	SEC. 17.1 – 17.5, 17.7 – 17.8
14		18		
14		20	REVIEW FOR THE FINAL EXAM	
15				

HOMEWORK ASSIGNMENTS	
HW 1 (15%) DUE 01/24	CH. 2: EX. 2.3, 2.5, 2.15, 2.37, 2.57, 2.61
HW 2 (25%) DUE 02/02	CH. 4: EX. 4.9, 4.19, 4.27, 4.37, 4.39, 4.43, 4.45 CH. 6: EX. 6.41, 6.45, 6.47, 6.52, 6.53
HW 3 (30%) DUE 03/02	CH. 7: EX. 7.17, 7.23, 7.32, 7.84, 7.100, 7.114 CH. 8: EX. 8.14, 8.35, 8.37, 8.57; CH. 9: EX. 9.16, 9.41
HW 4 (30%) DUE 04/13	CH. 10: EX. 10.42, 10.61, 10.63; CH. 11: EX. 11.11, 11.44 CH. 12: EX. 12.24, 12.25, 12.47, 12.48, 12.87 CH. 13: EX. 13.18, 13.23, 13.24, 13.60, 13.101, 13.102, 13.103

SPECIAL DATES	
MARTIN LUTHER KING'S DAY	JANUARY 16
FIRST TEST	FEBRUARY 8
SPRING BREAK	MARCH 6 TO 11
SECOND TEST	MARCH 29
FINAL EXAM	THURSDAY, APRIL 27, 2PM – 4:45 PM