

COURSE SYLLABUS

Course Information

PROBABILITY AND STATISTICS FOR MANAGEMENT AND ECONOMICS

FALL 2016

STAT 3360

Section Call No Course Meeting Times Class Room Instructor

3360.002 84605 T R 2:30 PM – 3:45 PM JSOM 12.206 Jiayi Wu

Instructor

Jiayi Wu

Contact Information

Room: FO 2.402 g Email: jxw133130@utdallas.edu

Hours: M T W R 4:00 PM – 5:00 PM

Course Pre-requisites, Co-requisites, and/or Other Restrictions

MATH 1326

Course Description – See Below

Student Learning Objectives/Outcomes

- Students will be able to use Statistical Data Analysis, its tools and exploratory techniques.
- Coverage will be provided for basics in Probability Theory (independence and conditional distributions, probability rules, continuous distributions and densities, random variables, their expectations and moments).
- Students will familiarize themselves with sampling distributions of some statistics and learn how to draw and apply statistical inferences based on sampling distributions.

Required Textbooks and Materials

1. Statistics for Management and Economics (by Gerald Keller) Abbreviated 10th (or 9th) Edition

ISBN 10: 1-285-42545-6 / ISBN: 9780324594270 (denoted as GK)

2. Probability & Statistics for Management & Economics (by Yuly Koshevnik, denoted as YK):

Preliminary Edition. The book is now available for purchase in both print and digital formats through their student e-commerce store (<https://students.universityreaders.com/store/>).

Both books will be used concurrently during the transition period.

Textbook(s), lecture notes, calculator, and scratch paper should be brought to each class period.

Students will be working problems in class.

Common policies can be seen from <http://provost.utdallas.edu/syllabus-policies/>

IMPORTANT DATES & HOLIDAYS	
CLASSES START	TUESDAY, AUGUST 23
LABOR DAY	MONDAY, SEPTEMBER 5
CENSUS DAY/ DROP WITHOUT A “W”	WEDNESDAY, SEPTEMBER 7
DROP (APPROVAL REQUIRED)	SEPTEMBER 8 – OCTOBER 27
DROP WITH WL	OCTOBER 4 – OCTOBER 27
EXAM 1	TUESDAY, SEPTEMBER 20
EXAM 2	THURSDAY, OCTOBER 20
THANKSGIVING + FALL BREAK	NOVEMBER 21 – NOVEMBER 26
EXAM 3	TUESDAY, NOVEMBER 15
EXAM 4	TUESDAY, DECEMBER 6
LAST DAY OF CLASSES	TUESDAY, DECEMBER 6

COURSE SYLLABUS

Grading Policy

Your course grade will be determined based on the following weighting:

Homework Assignments [1 – 10] (**collected in class only**) **10%** (two lowest scores dropped)

Quizzes [1 – 10] (**conducted in class only**) **10%** (two lowest scores dropped)

Four **in class** Exams (**see schedule below**) **20% + 20% + 20% + 20% = 80%**

Make-up exams will only be permitted for students who demonstrate valid reasons to miss the scheduled exam. **No on-line homework submission and no make-up quiz.**

Grading Scale:

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

Course & Instructor Policies

Homework:	Homework will be assigned, collected in class, graded, and returned in class. No online submission, please! <u>SIGN</u> and <u>STAPLE</u> your work!!!
Quizzes:	Will be given generally once a week as preparation tools.
Announcements:	HW and Quiz days will be announced in class and via E-Learning.
Exams:	Four major exams will be given as scheduled. No electronic device allowed!
Calculator:	A scientific calculator is required.
Tables:	Tables 2 – 5 from the book are required

COURSE SYLLABUS

TENTATIVE COURSE OUTLINE		
Days	Topics	References
August 23 – 25	Introduction: Grading Policy, Rights and Duties	GK: Ch. 2 – 3 YK: Ch. 1 – 3
	Graphical and Tabular Descriptive Techniques	
	HW 1 => 8/30 Q1 => 9/1	
August 30 – September 1	Numerical Variables – Summaries	GK: Ch. 4 YK: Ch. 4
	HW 2 => 9/6 Q2 => 9/8	
September 6 – 15	Probability Rules / Distributions	GK: Ch. 6 YK: Ch. 5
	HW 3 => 9/13 Q3 => 9/15	
September 15	First Exam Review	GK: Ch. 2 – 4, 6 YK: Ch. 2 – 5
September 20	Exam 1	
September 22 – 29	Discrete Variables and Distributions	GK: Ch. 7 YK: Ch. 6
	HW 4 => 9/27 Q4 => 9/29	
October 4 – 11	Continuous Models and Sampling Distributions	GK: Sec. 8.2; 9.1 – 9.2 YK: Sec. 8.1 – 8.2
	HW 5 => 10/4 Q5 => 10/6	
October 13 – 18	Estimation and Confidence Intervals	GK: Sec. 10.1 – 10.3 YK: Sec. 9.1 – 9.2
	HW 6 => 10/11 Q6 => 10/13	
October 18	Second Exam Review	GK: Ch. 6 – 10 YK: Ch. 5 – 9
October 20	Exam 2	
October 25 – 27	Hypothesis Testing and Z test	GK: Sec. 11.1 – 11.2 YK: Sec. 9.1 – 9.3
	HW 7 => 10/27 Q7 => 10/27	
October 27 – November 3	Inferences about a Population Proportion	GK: Sec. 9.2, 12.1 – 12.3 YK: Sec. 9.3 – 9.5
	T-Test and Inferences about Population Mean	
	Chi-Squared Test and Inferences for Variance	
	HW 8 => 11/1 Q8 => 11/3	
November 3 – 10	Comparing Two Population Means	GK: Sec. 13.3, 13.5, 13.1 YK: Sec. 10.2 – 10.5
	Comparing Two Population Proportions	
	HW 9 => 11/8 Q9 => 11/10	
November 10	Third Exam Review	GK: Ch. 9 – 12 YK: Ch. 7 – 9
November 15	Exam 3	
November 17	Chi-Squared Tests for Categorical Data	GK: Ch. 15 YK: Ch. 11
November 21 – 26	Thanksgiving and Fall Break – No Classes!	
November 29 – December 1	Simple Linear Regression – Inferences	16.2 – 16.4
	HW 10 => 11/29 Q10 => 11/29	
December 1	Course Overview	GK: Ch. 13, 15, 16 YK: Ch. 10 – 12
December 6	Exam 4	

These descriptions and timelines are subject to change at the discretion of the Instructor.