

COURSE SYLLABUS

Course Information STATISTICAL DECISION MAKING

	SPRING 2026	STAT 1342.001	
Section	Call No	Course Meeting Times	Classroom
1342.001	22839/012076	M W 8:30 AM – 9:45 AM	FN 2.214

Professor Dr. Yuly Koshevnik
Contact Information (E-Mail is preferred)
Room: FA 2.408 **Phone:** 972-883-4178 **Email:** yuly.koshevnik@utdallas.edu
Office Hours: **M T W R** **1:00 – 2:00 PM** **F Noon – 2:00 PM**

Course Modality and Expectations

Instructional Mode	Traditional
Course Platform	The course will be taught in classroom. Homework assignments and Exams will be posted on E-Learning. Class notes will be provided weekly.
Expectations	Students are expected to attend the class, read regularly posted notes, and submit homework assignments on time.

Course Pre-requisites, Co-requisites, and/or Other Restrictions: MATH 1326

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. Understanding Basic Statistics (by C. H. Brase and C. P. Brase) 7th Edition (or 6th Edition)
ISBN: 978-1-305-25406-0 / ISBN 13: 978-1-111-82702-1 [Referred as BB]
2. (Additional Source) Fundamentals of Statistical Thinking: Tools and Applications (by Yuly Koshevnik) First Edition. [Referred as K]
ISBN: 978-1-5165-1162-4 (paperback) or **978-1-5165-1163-1** (binder-ready).
Visit the student e-commerce store (<https://students.universityreaders.com/store/>).

Lecture Notes and Tables will be posted online.

The textbook, lecture notes, calculator, and scratch paper should be used during each class session.

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

IMPORTANT DATES & HOLIDAYS	
CLASSES START	WEDNESDAY, JANUARY 21
CENSUS DAY	WEDNESDAY, FEBRUARY 4
DROP (APPROVAL REQUIRED)	THURSDAY, FEBRUARY 5 – WEDNESDAY, APRIL 8
INTERMEDIATE EXAM 1	WEDNESDAY, FEBRUARY 25
SPRING BREAK	MONDAY, MARCH 16 – SUNDAY, NOVEMBER 30
INTERMEDIATE EXAM 2	WEDNESDAY, APRIL 8
COURSE OVERVIEW	WEDNESDAY, APRIL 29 – MONDAY, MAY 4
LAST DAY OF CLASSES	WEDNESDAY, MAY 6
LAST EXAM	WEDNESDAY, MAY 6

Course & Instructor Policies

Homework: Homework will be assigned, collected ONLINE, and graded

Announcements: HW days will be announced in class and via E-Learning.

Exams: **THREE** In Class exams will be given as scheduled.

Calculator: A scientific calculator is required.

Tables: Use the REQUIRED Tables from the book (posted on E-Learning)

COURSE SYLLABUS

Grading Policy

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

Homework Assignments [1 – 10] (ONLINE) =>	20%	
Two INTERMEDIATE Exams (IN CLASS) =>	25% + 25% =	50%
Last Exam (Last Day of Classes) =>		30%

Make-up exams will only be permitted for students who demonstrate valid reasons to miss the exam.

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

TENTATIVE COURSE OUTLINE			
<i>(These descriptions and timelines are subject to change at the discretion of the Professor.)</i>			
Days	Topics	References [BB] and [K]	
01/21 – 01/28	Introduction: Grading Policy, Rights and Duties	[BB] Ch. 1 – 2 / [K] Ch. 2	
	Graphical and Tabular Descriptive Techniques		
	HW 1 => 01/28		
01/28 – 02/04	Numerical Summaries	[BB] / [K] Ch. 3 [BB] / [K] Ch. 4	
	Correlation and Regression		
	HW 2 => 02/04		
02/09– 02/23	Probability Rules / Distributions	[BB] / [K] Ch. 5	
	HW 3 => 02/11		HW 4 => 02/18
	Binomial Distributions with Applications		
02/23	First Exam Review	[BB] Ch. 2 – 6 / [K] Ch. 2 – 6	
02/25	Intermediate Exam 1		
03/02 – 03/11	Normal Curves and Sampling Distributions	[BB] Ch. 7 / [K] Sec. 7.5, 8.2 [BB] Ch. 8 – 9 / [K] Sec. 9.2, 9.4 [BB] Sec. 10.1 / [K] Sec. 10.2	
	Estimation and Confidence Intervals		
	HW 5 => 03/11		
03/16 – 03/22	Spring Break		
03/25 – 03/30	Hypothesis Testing: Z and T tests	[BB] Sec. 10.1 / [K] Sec. 10.2	
	HW 6 => 03/25		
03/30 – 04/06	T-Test and Inferences about Population Mean	[BB] Sec. 10.1 / [K] Sec. 10.1 – 10.2	
	T-Distributions and Matched Pairs Design		
	HW 7 => 04/01		
04/06	Second Exam Review	[BB] / [K] Ch. 6 – 10	
04/08	Intermediate Exam 2		
04/13 – 04/22	Inferences about a Population Proportion	[BB] Sec. 10.2 / [K] Sec. 10.4 – 10.5	
	Comparing Population Proportions		
	Comparing Two Population Means		
	HW 8 => 04/15		HW 9 => 04/22
04/22 – 04/29	Chi-Squared Tests for Categorical Data	[BB] / [K] Sec 11.1 – 11.2	
	Simple Linear Regression – Inferences		
	HW 10 => 04/29		
04/29 – 05/04	Course Overview	TOPICS will be Posted	
05/06	LAST Exam		