University of Texas at Austin

Course Outline

Economics 329: ECONOMIC STATISTICS-WB

Summer 2020, Unique Number 79480

Course web site: Canvas at UT-Austin
Instructor: Dr. Valerie R. Bencivenga
Office: BRB 3.102C **(UT campus is closed)**
Office hours: By email, Piazza, and Zoom (by appointment)
Office phone: 512-475-8509 (do not leave a message, **email instead)**
Email: Eco329.vrb@gmail.com (course email for most email), benciven@utexas.edu (UT email for confidential matters)
I check email multiple times per day and usually I will reply within minutes or hours (or by the next day at the latest). Do not leave a phone message. **Send an email to the course email. Do not use Canvas messaging.**

KEY INFORMATION

Because this is an online course, and I won't be greeting you and introducing the course to you in person, I'm putting some tips about key information and where to find it here at the beginning of the course outline. The usual course outline information then follows.

In this course, you'll watch videoed lectures (and do the associated reading in the textbook), take Canvas quizzes, and take three exams on Canvas. You can take this course from anywhere but be aware that the exams will be on Canvas, offered in windows of time based on "Austin time" (and Canvas due dates/times use "Austin time"). All of the work and materials will be on the Canvas course web site from the start of the course, and you can do the work on your own schedule (except for Canvas quiz due dates and scheduled exams).

All students should be concerned about keeping an appropriate pace and studying effectively so that you can do well on the exams, which count for 85% of your course grade. Midterm #1 is 15%, midterm #2 is 30%, and the final exam is 40%. The Canvas quizzes are 10% and the InstaPolls (pop up questions in lecture videos) are 5%.

To help you, I've created the following tools, which are on Canvas:

- **2020 Summer Teaching & Learning Plan.xlsx.** A downloadable **Excel spreadsheet** with a suggested day-by-day schedule for viewing the lecture videos, Canvas quiz due dates, and targeted practice problems (organized to coordinate with the lecture videos, links are in the topic modules on Canvas).
- **Calendar images** (reproduced below).
- **ECO 329 Lecture Videos & Reading ONLINE COURSE.pdf.** A table of the lecture videos and associated reading (reproduced below).

In addition, on Canvas you'll find

- Details about the course and strategies for learning are on the **READ FIRST** page.
- **Topic modules.** Each topic module has links to the lecture videos and a web page with a lot of information and links to lecture slides, Canvas quiz questions (so you can do them before opening the quiz), and targeted practice problems with detailed solutions.
- 5 semesters of old exams for practice. Additional practice problems. Formula sheets and probability tables.

COURSE OBJECTIVES

Economic Statistics is a first course in quantitative methods that are widely used in economics and business. The main objectives of this course are to

- explore methods for describing data
- teach students how to build and analyze probability models of economic and business situations
- introduce a variety of statistical methods used to draw conclusions from economic data, and to convey the conceptual and mathematical foundations of these methods
- lay a foundation for econometrics

COURSE DESCRIPTION

SEGMENT 1. The unit on **descriptive statistics** covers methods for describing the distribution of data on one or more variables, including measures of central tendency and dispersion, correlation, frequency distributions, percentiles, and histograms.

In economics and business, we specify a probability model for the random process that generated the data (data-generating process, or DGP). The unit on **probability theory** covers the set-theoretic foundations of probability and the axioms of probability; rules of probability derived from the axioms, including Bayes' Rule; counting rules; and joint probability distributions. **MIDTERM #1.**

SEGMENT 2. Random variables are probability models of random quantities and events. We study the **binomial, hypergeometric,** and **Poisson distributions**, which are **discrete random variables** (used, for example, in quality control and to forecast customer arrivals). We study the **uniform** and **normal distributions,** which are **continuous random variables** (providing models of the amount of time to complete a task, or wages, for example). Random variables allow us to compute probabilities of events (for example, the probability a portfolio loses money, or the probability a bid wins in an auction). The **chi-square, Student t,** and **F distributions,** which are related to the normal distribution, are introduced for use later in this course and in econometrics (may be covered in the unit on sampling theory).

Sampling theory builds probability models of the impact of randomness in the DGP on statistics we compute from data. We derive **sampling distributions** of various statistics in the context of different DGPs. The **Central Limit Theorem** sometimes allows us to derive approximate sampling distributions even when we don't know much about the DGP. Part of sampling theory is covered in Segment 2. **MIDTERM #2.**

SEGMENT 3. Sampling distributions provide a basis for choosing an **estimator** of a population parameter, and they allow us to calculate **confidence intervals** from data (intervals that quantify uncertainty in our estimates of parameters of the DGP, such as the true mean rate of output of a production process, or the true variance of the rate of return on a portfolio). We also develop **hypothesis tests** for a set of DGPs. Statistical inference (estimation and hypothesis testing) about one parameter of a **single population** and about the relationship between parameters across **two populations** are considered. **FINAL EXAM.**

PREREQUISITES

Grades of at least C- in ECO 304K and L and in MATH 408C and D or MATH 408K and L (or the equivalent)

TEXTBOOK AND OTHER REQUIRED MATERIALS

The required textbook is **PROBABILITY AND STATISTICS FOR ENGINEERING AND THE SCIENCES, 9th edition,** by Jay DEVORE (Cengage). The textbook is available in a hardcover edition for purchase. Alternatively, you can rent the textbook, which is less expensive. Here is the link to the Cengage web site, which has that option:
https://www.cengage.com/c/probability-and-statistics-for-engineering-and-the-sciences-9e-devore

LECTURE VIDEOS

The topic modules on Canvas (Topics 1 through 10) have links to the lecture videos. You can watch the lecture videos as many times as you want but InstaPolls vanish once you pass them (see below). You are responsible for all material covered in the lectures.

EVALUATION

Your course score will be based on **midterm exam #1 (15%), midterm exam #2 (30%),** a **final exam (40%), Canvas quizzes (10%),** and **InstaPoll questions (5%).** Your course score will be computed as a weighted average, using your percentage scores on these components. A course grade will be assigned based on your course score relative to the distribution of course scores in the class together with an absolute standard that reflects required minimum knowledge needed for using statistics and for subsequent courses. Pluses and minuses will be used.

The percentage of students receiving any particular letter grade is not predetermined. It is possible for all students to get a C or above, and for the large majority to receive an A or a B. However, lower grades will be assigned to students who do not demonstrate adequate proficiency and knowledge of the material.

Curve. In this course, exam scores are "curved" by adjusting the "denominator" (dividing by a number less than the point total of the exam, which effectively converts some points to "extra credit"), and by setting cutoffs between letter grades. After MT#1, I will post tentative cutoffs (percentage scores) between A, A-, B+, etc. After MT#2, I will announce updated tentative cutoffs, based on the distribution of a weighted average of MT#1 and MT#2 scores. At the end of the semester, I will post final cutoffs for course grades, based on the distribution of course scores.

EXAMS

Exams will be **open-book, open-notes exams taken on Canvas,** on the "quizzes" tab. They will be **timed exams offered during a window of time.** You must take the exam within the window, and the allowed time starts when you open the exam, but you will have some flexibility as to when you start the exam.

During the spring 2020 semester, once the UT campus closed, I broke MT#2 and the final exam into pieces that students took on consecutive days. I may do that for the Summer 2020 course, as well, because students seemed to like this. I plan to ask the class about this by sending a Canvas announcement. **I will set the windows of time for the exams once it is decided whether or not the exams will be broken into pieces.**

Exam dates

- **MT#1: June 22 or June 22 and 23 if broken into two pieces**
- **MT#2: July 9 or July 9 and 10 if broken into two pieces**
- **Final exam: July 30 or July 29 and 30 if broken into two pieces**

Let me know immediately if you have a conflict that prevents you from taking any of the exams on the scheduled dates. If you have a conflict with another class or exam, I will schedule your exam at an alternate time. I give alternate time exams only to students who legitimately need them. **If you do not notify me of a conflict by Friday June 12 at noon, you will be required to take the exams at the scheduled times unless an emergency arises.**

That being said, in the unusual circumstances that prevail during the coronavirus pandemic, **please email me at any point in time about problems that you are having if they affect your ability to study and to do the work in this course.** While I do need information about students' schedules for planning, and I do need to maintain some deadlines in order to give grades, I will help you if I can.

If you require an accommodation for a disability, please let me know about it as soon as possible, even if you don't yet have your accommodation letter from Services for Students with Disabilities. See the section on accommodations for students with disabilities (below).

Students who have an accommodation letter must send a pdf of their accommodation letter to the course gmail. I'll reply and that will initiate the discussion about how the accommodations will be provided. The notice I receive from SSD that your accommodation letter is available in the portal is **not** sufficient. It is the student's responsibility to contact me directly and to provide the pdf of the letter.

There will be no makeup midterms. If you miss a midterm due to illness, a personal emergency, or other valid reason, and if you provide me with documentation of the event, I will re-weight your other exams. An illness or emergency must be serious and unavoidable, and documented, in order for you to be excused. Otherwise, you will receive a zero for the missed exam. Contact me by email as soon as possible, to discuss your situation.

You must take the final exam at the scheduled or arranged time unless you have a valid, documented reason. A request to take the final exam at an alternate time should be made well ahead. If an illness or emergency prevents you from writing the final exam at the scheduled or arranged time, contact me by email at the earliest opportunity. If the illness or emergency is serious and unavoidable, and documented, you will receive an incomplete for the course, and a makeup final exam will be arranged, which may be during the following semester. If you are excused from MT#2 and the final exam, you will be required to make up both of them (even if you have taken MT#2).

CANVAS QUIZZES

There are quizzes on Canvas, with due dates, that count as part of your course score. Point values of Canvas quiz questions vary. The number of questions and point values of Canvas quizzes vary. Each Canvas quiz answer is either correct (full points) or wrong (zero points). **Each quiz gives you two attempts and the last attempt counts (not the highest).**

You take the Canvas quizzes using the "Quizzes" tab on Canvas. **Canvas quiz questions also are posted in the Canvas "topic modules", so you can solve them before opening the Canvas quiz.** I recommend this, because **opening a Canvas quiz counts as an attempt.** You may work together on the Canvas quizzes (but you should make sure you understand every solution in order to learn from the quizzes).

Answers will be discussed in the problem-solving sessions but will not be posted on Canvas.

The Canvas quizzes provide essential opportunities for you to learn the material of this course. The questions are excellent preparation for the exams. Many of the questions are old exam questions. Many of the questions are accompanied by "hints" about how to think about the question, and how to approach it. Absorbing these hints will help you learn. Leave enough time to take full advantage of the learning opportunity each Canvas quiz provides.

INSTAPOLL QUESTIONS

There are InstaPoll (pop-up) multiple choice questions embedded in the lecture videos. InstaPolls may pop up during the lecture or at the end. There are approximately 130 InstaPolls over the course. Each InstaPoll answer is correct or incorrect. InstaPoll questions are weighted equally. **When an InstaPoll pops up, that is your <u>only</u> opportunity to answer.** Once you answer, or if you pass the InstaPoll, it vanishes <u>permanently</u>. **Do not scroll ahead or click ahead in the video.** Any InstaPoll you pass will be lost <u>permanently</u>. All of the InstaPolls will be scored ("graded") at the end of the course (on July 29).

PROBLEM-SOLVING SESSIONS (OPTIONAL)

Most Wednesdays and Fridays, the TA's will hold a problem-solving session where they go over Canvas quiz answers (after the due date) and solve selected practice problems from the Excel spreadsheet, to help students prepare for upcoming Canvas quizzes and exams.

If the TA's are able to hold the problem-solving sessions synchronously on Zoom, the times will be posted and the synchronous session will be recorded and posted on Canvas. Otherwise, the TA's will record the problem-solving sessions and post them. **Watch for Canvas announcements about the problem-solving sessions.**

The problem-solving sessions are optional but strongly recommended.

CANVAS

See the **"READ FIRST"** page on Canvas for an overview of the course, including the resources available on Canvas. There's a link to **"READ FIRST"** on the home page, and you can find it directly in the **"Schedule of work and information about graded work"** module.

PIAZZA

This course will use Piazza, a discussion board that is built directly into the Canvas course web site. On Piazza, students can submit questions related to the content of the course that other students might benefit from seeing. Students are encouraged to answer each other's questions. There's no better way to be sure you understand something than to explain it to others! I will check Piazza regularly to answer questions and to "endorse" good answers submitted by students.

COMMUNICATION

You are responsible for all information posted on Canvas, including Canvas announcements. The TA's and I will use Canvas announcements to communicate with students. **I strongly recommend you set up Canvas so that announcements are emailed to you.** You are responsible for all information in email exchanges directly between you and me, and between you and the TA's. Emails from the TA's and me may come from our UT email addresses, or the course gmail, **Eco329.vrb@gmail.com.**

OFFICE HOURS

I will hold office hours by email and Piazza, and using Zoom (by appointment). I strongly encourage students to sign up for Piazza and to use it for content questions – Piazza is great! Snips (images) can be embedded which makes it easy to ask and answer questions about mathematical material. I monitor Piazza fairly continually.

For email, please use **Eco329.vrb@gmail.com** which is the course gmail. Feel free to embed or attach snips or photos so that you can refer to details in your question. I will answer email promptly – usually within hours and definitely by the next day. Usually weekends are the same but occasionally on a weekend it might take me a bit longer to reply.

The TA's will hold Zoom office hours as well as offering the optional problem-solving sessions. See the Canvas module called "Office hours and TA information" for updates on TA office hours.

TEACHING ASSISTANTS

TA names, and TA office numbers, office hours, and email addresses will be posted on Canvas.

SCHEDULE OF TOPICS AND READING

Below is a schedule of the videoed lectures together with the pdf's of the lecture slides (posted on Canvas) and the textbook reading. This schedule is also posted on Canvas in the "Schedule of work and information about graded work" module in a document with the title "ECO 329 Lecture Videos & Reading ONLINE COURSE.pdf".

On Canvas, you'll find a page that has a calendar of topics, Canvas quizzes, and exams (same module). These calendar images are reproduced below.

On Canvas, you'll also find a downloadable Excel spreadsheet that has a day-by-day timetable of topics, Canvas quizzes, suggested dates for viewing the videoed lectures, the number of InstaPoll questions for each lecture, and practice problems that are available in the topic modules. "Schedule of work and information about graded work" module.

ECO 329 Lecture Videos & Reading ONLINE COURSE.pdf (also posted on Canvas):

Topics	Lecture titles (and video titles)	Time	Lecture slides (file names)	Devore	Notes
1: Introduction	Introduction and the Nature of Economic Data	53:02	01-1 intro LECTURE	1.1	
2: Descriptive Statistics	**Part 1, Lecture 1:** Measures of Central Tendency	38:20	02-1 descriptive LECTURE 1	1.3	
	Part 1, Lecture 2: Measures of Dispersion	29:19	02-1 descriptive LECTURE 2	1.4	Skip boxplots
	Part 1, Lecture 3: Linear Transformation	30:14	02-1 descriptive LECTURE 3		
	Part 2: Covariance and Correlation	39:11	02-2a descriptive LECTURE		
3: Frequency Distribution	**Part 1:** Frequency Distributions and Grouped Data	1:20:40	03a freq dist LECTURE	1.2	Skip stem and leaf plots and dotplots
4: Probability Theory	**Part 1:** Set Theory and the Axioms of Probability	1:06:32	04-1 prob	2.1, 2.2	
	Part 2: Rules of Probability	1:07:14	04-2 prob	2.2, 2.3, 2.4, 2.5	
	Part 3, Lecture 1: Bayes Rule and Bivariate Probability Distributions	1:12:11	04-3 prob LECTURE ONE		Bayes Rule is in 2.4
	Part 3, Lecture 2: Counting Rules	42:42	04-3 prob LECTURE TWO	2.3	
	MIDTERM #1				
5: Discrete Random Variables	**Part 1:** Random Variables and Mathematical Expectations	1:41:36	05-1 discrete rv 1	3.1, 3.2, 3.3	
	Part 2: Joint Probability Distributions	2:09:00	05-2 discrete rv 2	5.1, 5.2	**Part 2:** Absorb the discussion about jointly distributed discrete random variables. Re-read the discussion about jointly-distributed continuous random variables along with the next topic. Skip Ex 5.8.
	Part 3, Lecture 1: Binomial Random Variable	1:10:06	05-3 discrete rv 3 LECTURE 1 binomial	3.4	
	Part 3, Lecture 2: Poisson Random Variable	19:58	05-3 discrete rv 3 LECTURE 2 Poisson		
	Part 3, Lecture 3: Hypergeometric Random Variable	33:55	05-3 discrete rv 3 LECTURE 3 hypergeometric	3.6	
	Review Questions: Binomial, Hypergeometric and Poisson Distributions	14:14	No posted file (InstaPoll questions)	3.5	
6: Continuous Random Variables	**Part 1:** Continuous Random Variables	1:34:58	06 continuous rv 1	4.1, 4.2	
	Part 2: Continuous Random Variables	1:50:23	06 continuous rv 2	4.3	**4.3:** Skip the binomial approximation to the normal distribution Skip 4.4, 4.5
	Part 3: Continuous Random Variables: Normal Plot	28:46	06 continuous rv 3 NORMAL PLOT	4.6	
7: Sampling Theory	**Part 1:** Sampling Theory	1:52:51	07 sampling 1 (BEFORE MT#2)	5.3, 5.4, 5.5	
	MIDTERM #2				
	Part 2: Sampling Theory	1:38:37	07 sampling 1 (AFTER MT#2)		
	Review Questions: Sampling Theory	27:53	No posted file (InstaPoll questions)		

8: Point and Interval Estimation	**Part 1:** Point and Interval Estimation	1:56:38	08-1 point & interval est LECTURE	7.1, 7.2, 7.3	Skip prediction interval, tolerance intervals
	Part 2: Properties of Estimators	55:28	08-2 properties of estimators LECTURE	6.1	Skip Ex 6.8, skip 6.2, skip the score CI for p
9: Hypothesis Testing	**Part 1:** Conceptual Framework for Hypothesis Tests	37:45	09-1 hyp testing intro LECTURE	8.1	
	Part 2: Hypothesis Testing: Success Probability of a Bernoulli Population	1:18:45	09-2 Bernoulli pop LECTURE	8.4	
	Part 3: Hypothesis Testing: Population Mean	2:07:44	09-3 population mean LECTURE	8.2, 8.3	
	Part 4: Hypothesis Testing: Normal Population, Variance	NA	09-4 normal pop, variance LECTURE		
	Part 5: Rejection Regions, Confidence Intervals, and P-Values	1:17:38	09-5 p-values etc LECTURE	8.5	Skip simultaneous testing, likelihood ratio principle
10: Two Populations: Hypothesis Tests and Confidence Intervals	**Part 1:** Two Populations: Hypothesis Tests and Confidence Intervals	1:53:47	10-1 two pops, diff between means LECTURE	9.1, 9.2	Skip to pooled t procedures in 9.2
	Part 2: Hypothesis Tests and Confidence Intervals: Two Bernoulli Populations, Large Samples	33:35	10-2 two Bernoulli pops LECTURE	9.4	
	Part 3: Hypothesis Tests and Confidence Intervals: Variances of Two Normal Populations **FINAL EXAM**	55:50	10-3 two normal pops, diff between variances LECTURE	9.5	

These calendar images are also posted on Canvas (see the "Calendar Images SUMMER 2020 ONLINE COURSE" page):

June 2020

SUN	MON	TUE	WED	THU	FRI	SAT
31	Jun 1	2	3	4	5	6
				FIRST CLASS DAY (9-week TOPIC 1	No problem-solving sessio TOPIC 2 - part 1, lectures 1	
7	8	9	10	11	12	13
	TOPIC 2 - part 1, lecture 3 TOPIC 2 - part 2	Canvas Quiz #1 - Discrete v TOPIC 3	Problem-solving TOPIC 4 - part 1	Canvas Quiz #2 - Linear tra TOPIC 4 - part 2	Problem-solving TOPIC 4 - part 3, lecture 1	
14	15	16	17	18	19	20
	TOPIC 4 - part 3, lecture 2	Canvas quiz #3 - Frequency catch up, study	Problem-solving catch up, study	Canvas quizzes #4a&b - Pro catch up, study	Problem-solving catch up, study	
21	22	23	24	25	26	27
	Midterm exam #1 MT#1 Jun 22 & 23 if in 2 pi	TOPIC 5 - part 1	Problem-solving TOPIC 5 - part 2 & part 3 le	Canvas quiz #5 - Mathema TOPIC 5 - part 3, lectures 2	Problem-solving catch up, study	
28	29	30	Jul 1	2	3	4
	TOPIC 6 - part 1	Canvas quiz #6 - Discrete r Canvas quiz #7 - Bivariate p TOPIC 6 - part 2	Problem-solving catch up, study	Canvas quiz #8 - Binomial a Canvas quiz #9 - Poisson ra catch up, study	Problem-solving TOPIC 7 - BEFORE MT#2 Video "DUE" TODAY - Topic	Independence Day

July 2020

SUN	MON	TUE	WED	THU	FRI	SAT
28	29	30	Jul 1	2	3	4
	TOPIC 6 - part 1	Canvas quiz #6 - Discrete r Canvas quiz #7 - Bivariate p TOPIC 6 - part 2	Problem-solving catch up, study	Canvas quiz #8 - Binomial a Canvas quiz #9 - Poisson ra catch up, study	Problem-solving TOPIC 7 - BEFORE MT#2 Video "DUE" TODAY - Topic	Independence Day
5	6	7	8	9	10	11
	catch up, study	Canvas quiz #10 - Uniform Canvas quiz #11 - Normal r catch up, study	Problem-solving catch up, study	Midterm Exam #2 MT#2 Jul 9 & 10 if in 2 piec	UT - Nine-week classes do not meet No problem-solving sessio TOPIC 7 - AFTER MT#2	
12	13	14	15	16	17	18
	TOPIC 8 - part 1	Canvas quiz #12 - Sampling TOPIC 8 - part 2	Problem-solving TOPIC 9 - parts 1 & 2	Canvas quiz #13 - Sampling TOPIC 9 - part 3	Problem-solving Topic 9 - part 5 Video "DUE" TODAY - Topic	
19	20	21	22	23	24	25
	TOPIC 10 - part 1	Canvas quiz #14a - Confide Canvas quiz #14b - Propert TOPIC 10 - part 2	Problem-solving TOPIC 10 - part 3	Canvas quiz #15 - Hypothe catch up, study	Problem-solving catch up, study	
26	27	28	29	30	31	Aug 1
	Canvas quiz #16 - Hypothe Canvas quiz #17 - Hypothe catch up, study	Last class day (nine-week c Final review catch up, study	Final exams Final PART 1 if in 2 pieces	Final Part 2 if in 2 pieces		

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QUANTITATIVE REASONING FLAG. This course carries the Quantitative Reasoning flag. Quantitative Reasoning courses are designed to equip you with skills that are necessary for understanding the types of quantitative arguments you will regularly encounter in your adult and professional life. You should therefore expect a substantial portion of your grade to come from your use of quantitative skills to analyze real-world problems.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES. A student with a disability may request academic accommodations from Services for Students with Disabilities (512-471-6259, **http://diversity.utexas.edu/disability/**). SSD accepts documentation of the disability, and provides the student with letters for their instructors stating the appropriate accommodations. SSD also provides guidelines for informing instructors about needed accommodations.

Let me know of any accommodation(s) you will need as early in the session as possible, even if you don't have your accommodation letter yet. In order to receive an accommodation, I need either the SSD letter or knowledge that the letter is on its way <u>at least as far ahead</u> as specified by SSD guidelines for informing instructors. (If you receive an accommodation, I will need your SSD accommodation letter in order for your score to count toward your course grade.)

RELIGIOUS HOLY DAYS. By UT Austin policy, you must notify me of your pending absence <u>at least</u> fourteen days prior to the date of observance of a religious holy day. If you must miss a class, an examination, or an assignment, in order to observe a religious holy day, you will be given an opportunity to complete the missed work within a reasonable amount of time after the absence.

ACADEMIC INTEGRITY. Each student in this course is expected to abide by the University of Texas Honor Code:

> "The core values of The University of Texas at Austin are learning, discovery, freedom, leadership, individual opportunity, and responsibility. Each member of the university is expected to uphold these values through integrity, honesty, trust, fairness, and respect toward peers and community."

On all graded work in this course, you are expected to submit work that is your own. On homework and quizzes, you are welcome to discuss with others how to approach a problem, but the last step before you submit your answer should be that you solve the problem yourself. However, discussion in class about clicker questions is allowed and encouraged.

During exams, you must do your own work. Unless it is explicitly allowed, you may consult only the materials provided as part of the exam, and you may not look at notes, books, articles, etc., whether yours or anyone else's. No communication of any kind is permitted between students during exams (written, verbal, non-verbal, etc.). You may not look at another student's work, and you may not show another student your work. Any such behavior during the examinations will result in failure of the exam, and may lead to failure of the course and University disciplinary action.

USE OF EMAIL FOR OFFICIAL CORRESPONDENCE TO STUDENTS. All students should become familiar with the University's official email student notification policy. It is the student's responsibility to keep the University informed of any changes in his or her email address. Students are expected to check email on a frequent and regular basis in order to stay current with University communications, recognizing that certain communications may be time-critical. This includes emails from instructors. It is recommended that email be checked daily.

EMERGENCY EVACUATION. From the Office of Campus Safety and Security (**512-471-5767, http://www.utexas.edu/safety/**):
- o Occupants of buildings on The University of Texas at Austin campus are required to evacuate buildings when a fire alarm is activated. Alarm activation or announcement requires exiting and assembling outside.
- o Familiarize yourself with all exit doors of each classroom and building you may occupy. Remember that the nearest exit door may not be the one you used when entering the building.
- o Students requiring assistance in evacuation shall inform their instructor in writing during the first week of class.
- o In the event of an evacuation, follow the instruction of faculty or class instructors.
- o Do not re-enter a building unless given instructions by the following: Austin Fire Department, The University of Texas at Austin Police Department, or Fire Prevention Services office.
- o Behavior Concerns Advice Line (BCAL): **512-232-5050**
- o Link to information regarding emergency evacuation routes and emergency procedures can be found at: **utexas.edu/emergency**.

BEHAVIOR CONCERNS ADVICE LINE (BCAL). If you become worried about someone who is acting differently, you may call the Behavior Concerns Advice Line at 512-232-5050 to discuss your concerns about their behavior. This service is provided by the Office of the Dean of Students, the Counseling and Mental Health Center (CMHC), the Employee Assistance Program (EAP), and the University of Texas Police Department (UTPD). Visit **http://www.utexas.edu/safety/bcal** for more information.