

McCoy College of Business Administration
TEXAS STATE UNIVERSITY
Department of Computer Information Systems and Quantitative Methods
QMST 2333—BUSINESS STATISTICS
Spring 2016

INSTRUCTOR: Dr. Tahir Ekin **TEL:** 512-245-3297
OFFICE: McCoy 411- Avery 464 L (Mondays)
OFF. HOURS: M: 11:00 - 12:20, W: 11:00 - 12:20 or by appointment and
M: 16:30 -18:20 (Round Rock)
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Section	SCHEDULE Time	Room
252	MW 12:30 – 13:50	McCoy 233

COURSE DESCRIPTION:

A basic introductory course covering descriptive and inferential statistical techniques for business and economic decision making. Topics include measures of central tendency and dispersion, probability distributions, sampling distributions, confidence intervals, hypothesis testing, simple linear regression, and correlation analysis.

Throughout the course, the use of statistical software to analyze data is emphasized.

COURSE MATERIALS:

Required:

- **Textbook (e-book and learning software): LaunchPad for Moore's Practice of Statistics for Business and Economics**
- To work with LaunchPad you need an Internet connection. See Page 6 for details.
- **Access to a laptop with Internet Connection**
- **Access to TRACS: Lecture notes will be posted in TRACS**
- **Microsoft Office (Word, Excel)**

Additional reading will be assigned as necessary.

Recommended:

- Laptop or Tablet Computers. You can bring to class a laptop with Excel installed, provided that access to this laptop (or tablet) does not become a hindrance to your learning.
- Complementary references:
You can use your access to [E-brary](#) for the following reference books/readings:
 - Kazmier, L. J. (2003) Schaum's Easy Outline : Business Statistics, McGraw-Hill.
 - Karris, S. T. (2007) Mathematics for Business, Science, and Technology, 3rd Ed, Orchard Publications.
 - Cramer, D. (2003) Advanced Quantitative Data Analysis, McGraw-Hill Education.
 - Online Statistics Handbook: <http://www.itl.nist.gov/div898/handbook/index.htm>
 - <http://www.openintro.org/stat/download/OpenIntroStatSecond.pdf>
- Handheld scientific calculator
- Optional software: SAS JMP (freely available: <http://www.tr.txstate.edu/software/download/jmp-home-students>) and R/Rcmdr (freely available at <https://www.r-project.org>)

LEARNING OBJECTIVES:

What you will acquire in this course is the ability to:

- Calculate and use probability in solving business problems
- Compute and interpret descriptive statistics
- Construct and interpret confidence intervals
- Formulate, perform, and interpret hypothesis tests
- Calculate, evaluate, and interpret simple linear correlation/regression
- Use statistical software to graph, compute, and analyze statistical data

SKILLS AND KNOWLEDGE YOU ARE EXPECTED TO BRING INTO THIS COURSE:

- The ability to solve word problems
- The ability to read algebra for meaning
- The ability to solve algebra equations
- The ability to calculate factorials
- Knowledge of MS Office products
- The ability to use MS Excel's formulas, functions, and graphing capabilities

PREREQUISITES:

CIS 1323, MATH 1319, and MATH 1329

This course is a prerequisite for: ACC 3365, CIS 3380, QMST 3334, FIN 3312, FIN 3313, FIN 3316, FIN 3318, MGT 4330, MGT 4335, MGT 4340, MKT 3370, MKT 4337

COURSE POLICIES:

A. INSTRUCTIONAL METHODOLOGY:

Lecture, interactive discussion, instructor / group / individual problem solving

B. ATTENDANCE:

Regular class attendance is expected and necessary. In case of absence, it is the responsibility of the student to find out what work was missed, and to obtain class notes from another student, should a class be missed. Poor course attendance will result in the instructor not considering borderline grade situations when final grades are assigned.

C. COURSE REQUIREMENTS:

1. **Required reading:** Prior to every session the student need to review the material discussed during the previous class. For every lecture, the corresponding sections of the lecture slides and the LaunchPad eBook are listed in the course outline.
2. **Homework:** These are from LaunchPad. These assignments are not timed, and you have unlimited number of trials. In the outline page of the syllabus, the proposed due dates are listed. However, you have the grace period to attempt these homeworks until **May 11th, 2016 11:00 AM** without any penalty. There are a total of 10 assignments. Your submission that results with your lowest grade will not be considered for the final grade computation. And the rest of each nine will be counted for 2 % of your overall grade (a total of 18%).
3. **Report(s):** Reports to be completed using statistical software or spreadsheets will be assigned. **These assignments will be announced and delivered through TRACS.** For these reports, a **hard copy** (print-out) of the written report that summarizes the results and includes the supporting graphs is **due to the beginning of the lecture on the due date.** These due dates are listed in the outline page of this syllabus.

For the reports, working within a group which has up to 4 team members is strongly recommended. Working in groups will help you to come up with different perspectives while solving problems. However, all team members are expected to understand the conducted work and their submission thoroughly as some portions of the reports may be used in the exams. One submission per group is sufficient. Please note that

late submissions will not be accepted. So if you have only part of the assignment completed prior to the due date, submitting it may result with at least partial credit.

4. **Exams:** These will have time limit and will be administered in class in the dates that are posted in the outline section of the syllabus. There will be four (4) examinations, with exam 4 being given on the “Final Exam Day”. The instructor reserves the right to make changes in the exam schedule if the circumstances warrant. All exam scores are equally weighted.

Test conduct: Breaking any of the following exam rules could result in a grade of zero (0) for the test or the entire course.

- The proctor of the exam may ask you to show your student ID card.
- **You may not consult other people, classmates during the exam.**
- No talking, whispering, or communication of any sort with anyone else.
- Disruptive behavior will NOT be tolerated.

Make-up Examinations: Read our exam schedule and make your arrangements. As a rule, make-up exams will not be given unless the student has a **valid and verifiable** excuse. An approved absence is one due to **medical reasons or emergencies**. The instructor will determine what constitutes an emergency. Appropriate written documentation, pertaining to the absence, is required and will be provided by the student in order for the instructor to document and determine whether or not the absence is approved. An absence that cannot be documented is unlikely to be approved. If approved, the instructor will decide the date, place and content (e.g., comprehensive test at the end of the semester) of the make-up examination. Exams missed due to school sponsored activities, such as athletics, etc., will be excused, per university policy, but the exam must be taken **prior** to leaving on the school sponsored trip.

Grade Evaluation: The student’s final grade will be determined using

- **Four exams** **72% (18% each)**
- **Ten home-works** **18% (2% each, lowest one will be dropped)**
- **Two reports** **10% (4% and 6%)**

Your grade will be based on your final weighted average score and the letter grade will be assigned according to the following table:

Range	Grade
[90%, 100%]	A
[80%,90%)	B
[70%, 80%)	C
[60%, 70%)	D
[0%, 60%)	F

If deemed necessary, the instructor holds the right to assign an additional report for extra credit.

Grade Reports: Every student has access to their homework grades and progress through LaunchPad. The report and exam grades will be posted in TRACS.

- Borderline grade situations will only be considered if the student has presented every test on time, has presented every assignment on time, has excellent attendance, and has observed the civility rules presented on section D.
- All course related questions should be posted in **TRACS-Forums-Course Material Related Questions** instead of communicating via email so that everyone can benefit from the exchange. There is another discussion forum created in which you can collaborate with each other regarding your profiles and class matters. For personal issues and confidential matters, you are more than welcome to email the instructor.

D. CLASSROOM CIVILITY:

Disruptive behavior in the classroom is prohibited in Section 2.02 of Texas State's Code of Student Conduct and includes behavior that substantially or repeatedly interferes with the conduct, instruction, and education of a class. The complete Conduct of Classes policy is available at <http://www.provost.txstate.edu/pps/policy-and-procedure-statements/4-teaching/pp4-02.html>.

Students are expected to come to class each day prepared to participate in class discussions and activities. It is expected that all students will exhibit **professional behavior** during the class. That includes being in class on-time, being prepared and attentive, respecting others and their ideas, turning off cell phones, and other electronic devices, **not surfing the internet** or **checking email**, and staying in class (unless you have an emergency or have cleared it in advance with the professor). The instructor will take appropriate disciplinary action against violators of classroom civility, including the removal of offending parties from the class and reporting disruptive students to the Dean of the college and Student Justice.

Students **must** attend the class section for which they are officially registered and complete all exams, assignments, and other course-work in that section.

More information regarding classroom responsibilities can be found at **Students' Responsibilities on Advising and Learning** found at <http://advising.mccoy.txstate.edu/about/learningpolicy.html>.

- Please note that NO FOOD OR DRINKS are allowed in any McCoy Hall classrooms.
- If you need to use the cell phone, leave the classroom until you are done.
- If you need to textmessage, leave the classroom until you are done.
- No sleeping during class.
- No reading or working on unrelated material (e.g., newspaper, material from other classes).

E. OTHER:

- Access to LaunchPad, at least three times a week, is recommended.
- LaunchPad assignment grades will be available on LaunchPad gradebook.
- **Course material, test announcements, report announcements, learning videos and presentation slides will be posted on TRACS.** Access to TRACS, at least twice a week is recommended.
- You will need to come to class in order to receive the lecture and to participate. "Personalized" lectures are not delivered during office hours. This is **not** a distance-learning course.

UNIVERSITY/COLLEGE POLICIES:

- A. **DROP:** Dropping means that the student will remain enrolled in at least one hour in the current semester. A "W" will be automatically assigned if the drop procedure is completed on or before **11:59 p.m. on March 29, 2016**. After this deadline the student will be unable to drop individual classes and will receive the grade earned in the course (see [AAPPS 4.07](#) for a list of grades). It is suggested that students consult the instructor prior to dropping from the class.

WITHDRAWAL: Withdrawal means that the student is going to zero hours for the current semester. A "W" will be automatically assigned if the withdrawal procedure is completed on or before **11:59 p.m. on March 29, 2016**. After this deadline, the student may withdraw on or before **5:00 p.m. on April 21, 2016**. If the student is passing the class on the official date of withdrawal, a "W" grade will be assigned. If the student is failing the class on the date of withdrawal, a "U" grade will be assigned.

- B. **ACADEMIC HONESTY:** Submission of any work for a grade for which unauthorized help has been received is termed academic dishonesty and will be grounds for a failing grade in the course. "Unauthorized" is a term used here to designate stealing, copying (with or without permission), collaboration with other individuals, or sharing programming code outside of sanctioned group activities. Students are strongly encouraged to refer to the Texas State student handbook, available at <http://www.dos.txstate.edu/handbook.html> for policies related to academic dishonesty. **This instructor views any such act as a clear violation of ethical standards and will take appropriate disciplinary and punitive action.**

C. **HONOR CODE:** All students are required to abide by the Texas State University Honor Code found in [UPPS 07.10.01](#) under attachment I. The pledge for students states:

Students at our University recognize that, to insure honest conduct, more is needed than an expectation of academic honesty, and we therefore adopt the practice of affixing the following pledge of honesty to the work we submit for evaluation:

I pledge to uphold the principles of honesty and responsibility at our university.

D. **FINANCIAL AID:** Federal regulations require students to meet certain minimum academic and attendance standards in order to remain eligible for financial aid assistance. Other program-specific requirements may also exist. Additional information is available at www.finaid.txstate.edu.

E. **STUDENTS WITH DISABILITIES:** A student with a disability may require an accommodation(s) to participate in the course. They must contact the instructor as soon as possible, typically within the first two weeks of the semester. They will be asked to provide documentation from the Office of Disability Services (ODS) at that time. Failure to contact the instructor in a timely manner will delay any accommodations they may be seeking. Ongoing care by a physician does not automatically qualify you as an ODS special needs student. Students are required to file paperwork for accommodations with ODS each semester. Accommodations granted one semester do not automatically carry forward to the next. See UPPS No. 07.11.01 for additional information.

Financial Aid Information

Non-Attendance and Financial Aid

If you are a Pell Grant, Iraq-Afghanistan Service Grant (IASG) or TEACH Grant recipient, federal regulations require you to have begun attending the courses for which you are enrolled and receiving these grants. If on the census date roster (e.g., 12th day of each fall and spring semester) you are reflected as not attending a course, you are assumed (for financial aid purposes) not to have begun attendance for that course. Your grant will then be adjusted or cancelled based on the courses you have actually begun attending.

Unofficial Withdraws and Financial Aid

If you fail to earn a passing grade in at least one of your courses (i.e., all U's, all I's or a combination of all U's, W's or I's) during a semester, you are considered to have, for purposes of federal Title IV funds, unofficially withdrawn from the university. As a result, a federal withdrawal calculation must be performed to determine the amount of Title IV funds that you must repay. Once the amount you must repay is determined, Financial Aid and Scholarships will mail you a letter with the repayment details.

Note: A grade of U (Unearned Failing) is awarded to students who do not officially withdraw from but fail to complete a course (i.e., did not take a final exam, stopped attending, etc.) and failed to achieve the course objectives.

Satisfactory Academic Progress (SAP) and Financial Aid

Federal regulations require you to meet certain minimum academic standards in order to remain eligible for financial assistance. The requirements are that you: 1) maintain a minimum cumulative Texas State GPA; 2) complete at least 70% of all your coursework; and 3) not exceed a maximum limit of attempted hours toward your degree or certificate program.

Additional program-specific requirements also exist (e.g., TEXAS Grant). You can view these SAP criteria in more detail at www.finaid.txstate.edu by selecting *Undergraduate Aid* or *Graduate Aid* from the dropdown menu and then *Maintain My Eligibility*.

INSTRUCTIONS FOR ACTIVATION OF LAUNCHPAD

The online portion of our course is open for student registration.

To register for the course go to:

<http://www.macmillanhighered.com/launchpad/psbe3e/2810905>

PLEASE bookmark the page to make it easy to return to.

You have three options to enroll in the course: you can purchase direct access, you can buy an access code, or you can get free 21 day access while deciding. Your registration options are explained [here](#).

To navigate and start using LaunchPad please consult the [Get Started guide](#) and/or [view this video](#).

If you have problems registering, purchasing, or logging in, please contact Customer Support. You can reach a representative 24 hours a day, 7 days a week:

- through the [online form](#)
- by [chat](#)

Or by phone at (800) 936-6899 FREE:

- Monday through Thursday 7:00 a.m. to 3:00 a.m.
- Friday 7:00 a.m. to 11:00 p.m.
- Saturday 11:30 a.m. to 8:00 p.m.
- Sunday 11:30 a.m. to 11:00 p.m.

Looking forward to seeing you in class!

Tahir Ekin

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COURSE OUTLINE

*This is a tentative schedule. Everything is subject to change if circumstances warrant. Additional reading will be assigned as necessary. Homework due dates are suggested due dates. L=LaunchPad chapter, S= Slides of the instructor

WEEK	DATE	DAY	TOPIC	Material	DUE
1	20-Jan	W	Introduction & Descriptive Statistics	S1, L 3, 1.1	
2	25-Jan	M	Descriptive Statistics	S1, S2, L 3, 1.1-1.3	
2	27-Jan	W	Descriptive Statistics	S2, S3, L 1.1-1.3	
3	1-Feb	M	Descriptive Statistics	S3, L 1.2-1.3	HW1
3	3-Feb	W	Introduction to Probability	S4, L 4.1, 4.2.1-4.2.3	
4	8-Feb	M	Introduction to Probability	S4, L 4.1, 4.2.1-4.2.3	Report1
4	10-Feb	W	Probability Theory	S5, L 4.3, 5.1-5.2	HW2
5	15-Feb	M	EXAM 1		
5	17-Feb	W	Discrete Probability Distributions	S6, L 5.3- L 5.4	
6	22-Feb	M	Discrete Probability Distributions	S6, L 5.3- L 5.4	HW3
6	24-Feb	W	Continuous Probability Distributions	S7, L 1.3 , L 4.2.4	
7	29-Feb	M	Continuous Probability Distributions	S7, L 1.3 , L 4.2.4	HW4
7	2-Mar	W	Sampling & Sampling Distributions	S8, 4.4.1-4.4.5, 4.4.8-4.4.10	
8	7-Mar	M	Sampling & Sampling Distributions	S8, 4.4.1-4.4.5, 4.4.8-4.4.10	HW5
8	9-Mar	W	EXAM 2		
9	14-Mar	M	SPRING BREAK		
9	16-Mar	W	SPRING BREAK		
10	21-Mar	M	Interval Estimation	S9, L 6.1, 7.1.	
10	23-Mar	W	Interval Estimation	S9, L 6.1, 7.1	HW6
11	28-Mar	M	Hypothesis Testing	S10, L 6.2, 6.3, 7.1.3	
11	30-Mar	W	Hypothesis Testing	S10, L 6.2 ,6.3, 7.1.3	HW7
12	4-Apr	M	Hypothesis Testing	S11, L 6.2, 6.3, 7.2	
12	6-Apr	W	Hypothesis Testing	S11, L 6.2, 6.3, 7.2	HW8
13	11-Apr	M	EXAM 3		
13	13-Apr	W	Correlation & Simple Linear Regression	S12, L 2	
14	18-Apr	M	Simple Linear Regression	S12, L 10	
14	20-Apr	W	Simple Linear Regression	S12, L 10	
15	25-Apr	M	Linear Regression	S12, L 10	HW9
15	27-Apr	W	Chi Square Applications	S13, L 9	Report2
16	2-May	M	Discussion of Extensions and Review	S14	
17	11-May	W	11:00-13:30 EXAM 4 (FINAL EXAM)		HW10