Elementary Statistical Methods
Summer 18 – MATH 1342 - 1 CRN: 71371 3 Cr.

Learning responsibility rests on you

**Instructor:** Tamer Oraby

**Class location:** MAGC 1.418

**Time:** MTWRF 9:40 – 11:10 am

**Office hours:** MTWR 1:00 – 2:00 (or by appointment) @ office

**Office location:** MAGC 3.428

**Office phone number:** 665-3536

**E-mail:** tamer.oraby@utrgv.edu (I prefer contacting me by e-mail)

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**Prerequisites:** College ready TSI status in mathematics.

**Textbook:** Fundamentals of Statistics, Michael Sullivan III, 4th edition,


*5th Edition is released and currently available but is not required. I will use 4th edition.*

**Calculator:** TI-84 Plus (You can borrow one from the library for one day. First come first served.)

**Scantron:** You need to have 3 scantrons for the 3 exams.

**Description:** This course provides an elementary overview of the nature and uses of descriptive statistics, inferential statistics, and probability. Topics include statistical graphs, measures of central tendency and dispersion, linear regression, empirical and theoretical concepts of probability, the Central Limit Theorem, interval estimation, and hypothesis testing.
Learning is not equivalent to doing your homework

Important dates:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>July 12</td>
<td>First day of classes</td>
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<tr>
<td>July 17</td>
<td>Census day</td>
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<tr>
<td>August 16</td>
<td>Study Day – NO class</td>
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<tr>
<td>August 17</td>
<td>Summer 2018 Final Exams</td>
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Midterms: Wednesday July 25, 2018 & Wednesday August 8, 2018

- All wireless network capable devices, e.g., PCs, laptops, smartphones, i-watch must be off and should not be visible during class, tests or exams.

- Course learning objectives:

On completion of this course,

1. You will be able to identify the different types of data sets and understand how those data sets are collected.
2. Given a data set, you will be able to produce and explain the appropriate graphs and descriptive summary for that data. You will then be able to draw preliminary conclusions about the variables measured by those data.
3. You will be able to select and perform the appropriate statistical analysis required to reach a conclusion regarding some specific questions related to the variables. You will then be able to interpret the conclusions in terms of the actual problem for which we collected that data set.
4. You will be able to understand and use some probability models, and clearly comprehend the relationship between those probability models and statistical analysis.
5. You will be able to carry out objectives 2, 3, and 4 using the available computational tools, like TI-84.

- You are expected to:

1. Attend all the classes and arrive on time.
2. If you miss more than 3 classes without an official documented excuse, you will be asked to drop the course.
3. Do all the homework: about 8 HWs assigned twice a week and solved in that week through blackboard.
4. Take the two midterm exams in addition to the final exam at the dates mentioned above and repeated below. They will be held in classroom.
5. There is no makeup for the homework and exams unless you give a documented excuse before the exam.
6. You can stop me during the class and ask me questions. Please ask me in clear words.

- **You are free to:** take the extra-credit online quizzes. It will not be counted against you if you don’t take them. There are no make-up for the quizzes.

- **Course assessment:**
  1. **Assigned homework** will be announced in class.
  2. **Midterm exams:** we will have 2 midterm exams on

      **Wednesday July 25, 2018 & Wednesday August 8, 2018**

  3. **Common final exam:** we will have a semi-comprehensive final exam on

      **Friday August 17 at TBD in classroom**

- **Grading policy:**
  ✓ Homework -------------------------------25%
  ✓ Midterm exams 1 and 2 ---------------25%+25%
  ✓ Final exam ----------------------------25%
  ✓ Extra-credit quizzes -------------------TBD%

  **Raw grades** will be posted on your blackboard account.

- **Grading scale:**
  A: 90 – 100%
  B: 80 – 89%
  C: 70 – 79%
  D: 60 – 69%
  F: 59% or below
**STUDENTS WITH DISABILITIES:**

Students with a documented disability (physical, psychological, learning, or other disability which affects academic performance) who would like to receive academic accommodations should contact Student Accessibility Services (SAS) as soon as possible to schedule an appointment to initiate services. Accommodations can be arranged through SAS at any time, but are not retroactive. Students who suffer a broken bone, severe injury or undergo surgery during the semester are eligible for temporary services. **Brownsville Campus:** Student Accessibility Services is located in Cortez Hall Room 129 and can be contacted by phone at (956) 882-7374 (Voice) or via email at ability@utrgv.edu. **Edinburg Campus:** Student Accessibility Services is located in 108 University Center and can be contacted by phone at (956) 665-7005 (Voice), (956) 665-3840 (Fax), or via email at ability@utrgv.edu.

**MANDATORY COURSE EVALUATION PERIOD:**

Students are required to complete an ONLINE evaluation of this course, accessed through your UTRGV account (http://my.utrgv.edu); you will be contacted through email with further instructions. Students who complete their evaluations will have priority access to their grades.

**ATTENDANCE:**

Students are expected to attend all scheduled classes and may be dropped from the course for excessive absences. UTRGV’s attendance policy excuses students from attending class if they are participating in officially sponsored university activities, such as athletics; for observance of religious holy days; or for military service. Students should contact the instructor in advance of the excused absence and arrange to make up missed work or examinations.

**SCHOLASTIC INTEGRITY:**

As members of a community dedicated to Honesty, Integrity and Respect, students are reminded that those who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and expulsion from the University. Scholastic dishonesty includes but is not limited to: cheating, plagiarism (including self-plagiarism), and collusion; submission for credit of any work or materials that are attributable in whole or in part to another person; taking an examination for another person; any act designed to give unfair advantage to a student; or the attempt to commit such acts. Since scholastic dishonesty harms the individual, all students and the integrity of the University, policies on scholastic dishonesty will be strictly enforced (Board of Regents Rules and Regulations and UTRGV Academic Integrity Guidelines). All scholastic dishonesty incidents will be reported to the Dean of Students.

**SEXUAL HARASSMENT, DISCRIMINATION, and VIOLENCE:**

In accordance with UT System regulations, your instructor is a “Responsible Employee” for reporting purposes under Title IX regulations and so must report any instance, occurring during a student’s time in college, of sexual assault, stalking, dating violence, domestic violence, or sexual harassment about which she/he becomes aware during this course through writing, discussion, or personal disclosure. More information can be found at www.utrgv.edu/equity, including confidential resources available on campus. The faculty and staff of UTRGV actively strive to provide a learning, working, and living environment that promotes personal integrity, civility, and mutual respect that is free from sexual misconduct and discrimination.

**COURSE DROPS:**

According to UTRGV policy, students may drop any class without penalty earning a grade of DR until the official drop date. Following that date, students must be assigned a letter grade and can no longer drop the class. Students considering dropping the class should be aware of the “3-peat rule” and the “6-drop” rule so they can recognize how dropped classes may affect their academic success. The 6-drop rule refers to Texas law that dictates that undergraduate students may not drop more than six courses during their undergraduate career. Courses dropped at other Texas public higher education institutions will count toward the six-course drop limit. The 3-peat rule refers to additional fees charged to students who take the same class for the third time.
**STUDENT SERVICES:**
Students who demonstrate financial need have a variety of options when it comes to paying for college costs, such as scholarships, grants, loans and work-study. Students should visit the Students Services Center (U Central) for additional information. U Central is located in BMAIN 1.100 (Brownsville) or ESSBL 1.145 (Edinburg) or can be reached by email (ucentral@utrgv.edu) or telephone: (888) 882-4026. In addition to financial aid, U Central can assist students with registration and admissions.

Students seeking academic help in their studies can use university resources in addition to an instructor’s office hours. University Resources include the Learning Center, Writing Center, Advising Center and Career Center. The centers provide services such as tutoring, writing help, critical thinking, study skills, degree planning, and student employment. Locations are:

- **Learning center:** BSTUN 2.10 (Brownsville) or ELCTR 100 (Edinburg)
- **Writing center:** BLIBR 3.206 (Brownsville) or ESTAC 3.119 (Edinburg)
- **Advising center:** BMAIN 1.400 (Brownsville) or ESWKH 101 (Edinburg)
- **Career center:** BCRTZ 129 (Brownsville) or ESSBL 2.101 (Edinburg)