STAT 3337-02 SYLLABUS FOR SPRING 2019

UTRGV Course title and number: Probability and Statistics (STAT 3337-02)
Term: Spring 2019
Instructor Name: Dr. Demba Fofana
Telephone #: 956 – 381 – 2263,
Email: demba.fofana@utrgv.edu
Meeting times and location: TR 3:05 p.m. – 4:20 p.m., MAGC 2.206
Office hours and location: R 10:00 a.m. – 12:00 noon or by appointment MAGC 3.204


Course Description
Topics include discrete and continuous probability distributions, sampling distributions, inferences concerning means and proportions, comparing two treatments, and ANOVA.


Learning Objectives/Outcomes for the Course
Upon completing this course, students will have the ability to:
• Understand the axioms of probability theory and know how to apply them in computing various probabilities of interest.
• Distinguish discrete and continuous random variables and calculate univariate probabilities using mass function/density function/cumulative distribution function whichever is applicable.
• Calculate expectations, variance and moments from definition as well as moment generating functions for various univariate discrete and continuous distributions
• Develop the view that theory of probability and statistics are evolving disciplines, which have become tools of fundamental importance to nearly all scientists, engineers, medical practitioners, jurists, and industrialists.

HOMEWORK:
Reading assignments and homework problems will be assigned. Use latex or scientific word to write your homework. Download latex: https://miktex.org/download and TexSudio at https://www.texstudio.org/

EXAMS/GRADE POLICY:
Your course grade will be based on homework (20%), three exams (35%), a comprehensive final exam (30%) and a research project (15%).

LAST DAY TO DROP OR WITHDRAW: Wednesday, April 10, 2019

ATTENDANCE:
Class attendance is mandatory, and any absences should be discussed with the instructor in advance. Any student who misses a class is responsible for borrowing the material covered during his/her absence, from a classmate. Any student missing three lectures may be DROPPED from the class. Attendance and class participation may be used to determine grades in borderline cases.

CLASS CONDUCT:
NOTE: Walking into class late or walking in and out of class during lectures are disruptive behaviors which distract the attention of the teacher and other students. Also, a student who walks in and out of class during lectures misses some important facts about the lecture being delivered.
1. Any student who comes to class late after the roll has been checked is regarded as absent from class that day. The class roll is checked at the beginning of the class period and not at the end.

2. You may be DROPPED from the course for excessive lateness.

3. You MUST stay in class till the end of the period.
   
   a. A student will be checked absent from class if the student leaves before the period ends.

   b. If a student walks in and out of the classroom while lecture is in progress, regardless of the reason, 2 points will be deducted from the final grade because walking in and out of the class during lectures is disruptive. Exceptions will only be made for documented medical reasons.

4. All cellular phones and beepers must be turned off during class time. 5 points will be deducted from your final grade if your cellular phone or beeper rings in class, whether accidentally or deliberately.

5. Any disruptive or unruly behavior will be grounds for dismissal from the course.

6. Any student caught cheating on any of the exams will be given a course grade of F.

Calendar of Activities
Include in this section a table or list that provides information for students regarding important dates, assignments or activities. The UTRGV academic calendar can be found at https://my.utrgv.edu/home at the bottom of the screen, prior to login. Some important dates for spring 2019 include:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 14</td>
<td>First day of classes</td>
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<tr>
<td>January 17</td>
<td>Last day to add a course or register for spring 2019</td>
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<tr>
<td>January 21</td>
<td>Martin Luther King Jr. Day – NO classes</td>
</tr>
<tr>
<td>April 10</td>
<td>Last day to drop a course; will count toward the 6-drop rule</td>
</tr>
<tr>
<td>April 19-20</td>
<td>Easter Holiday – NO classes</td>
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<tr>
<td>May 2</td>
<td>Study Day – NO classes</td>
</tr>
<tr>
<td>May 3-9</td>
<td>Final Exams</td>
</tr>
<tr>
<td>May 10-11</td>
<td>Commencement Exercises</td>
</tr>
</tbody>
</table>

Other Course Information
In this section, please provide any other information that is pertinent to your course and your expectations for students.

UTRGV Policy Statements [next page]
The UTRGV disability accommodation, mandatory course evaluation statement and sexual harassment statement are required on all syllabi. Additional policy statements are optional, such as those covering attendance, academic integrity, and course drop policies.

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.

Pregnancy, Pregnancy-related, and Parenting Accommodations
Title IX of the Education Amendments of 1972 prohibits sex discrimination, which includes discrimination based on pregnancy, marital status, or parental status. Students seeking accommodations related to pregnancy, pregnancy-related condition, or parenting (reasonably immediate postpartum period) are encouraged to contact Student Accessibility Services for additional information and to request accommodations.
Student Accessibility 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. Online evaluations will be available on or about:

<table>
<thead>
<tr>
<th>Module</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module 1</td>
<td>February 13 – 19</td>
</tr>
<tr>
<td>Module 2</td>
<td>April 10 – 16</td>
</tr>
<tr>
<td>Full Fall Semester</td>
<td>April 10 – May 1</td>
</tr>
</tbody>
</table>

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: Recommended on all syllabi; may be modified by the instructor as long as it is not inconsistent with UTRGV policy.
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)

**Tentative Schedule of Activities:**

<table>
<thead>
<tr>
<th>Week</th>
<th>Days</th>
<th>Date</th>
<th>Topic (Subject to Change)</th>
<th>Student Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T</td>
<td>01/15/19</td>
<td>Ch3. Probability</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>01/17/19 to 01/22/19</td>
<td>Ch3. Probability</td>
<td>Ch. 3 Assignments</td>
</tr>
<tr>
<td>3</td>
<td>T</td>
<td>01/24/19 to 01/29/19</td>
<td>Ch4. Probability Distributions</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>T</td>
<td>02/05/19 to 02/07/19</td>
<td>Ch4. Probability Distributions</td>
<td>Ch. 4 Assignments</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>02/12/19 to 02/14/19</td>
<td>Ch5. Probability Densities</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>02/19/19 to 02/21/19</td>
<td>Ch5. Probability Densities</td>
<td>Ch. 5 Assignments</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>02/26/19 to 02/28/19</td>
<td>Ch6. Sampling Distributions</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>03/05/19 to 03/07/19</td>
<td>Ch6. Sampling Distributions</td>
<td>Ch. 6 Assignments</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>03/12/19 to 03/14/19</td>
<td>Ch7. Inferences Concerning a Mean</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>04/02/19 to 04/11/19</td>
<td>Ch7. Inferences Concerning a Mean</td>
<td>Ch. 7 Assignments</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>04/16/19 to 04/18/19</td>
<td>Ch8. Comparing Two Treatments</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>04/23/19 to 04/25/19</td>
<td>Ch8. Comparing Two Treatments</td>
<td>Ch. 8 Assignments</td>
</tr>
</tbody>
</table>
TENTATIVE EXAM DATES:

Exam 1: Thursday, February the 14th
Exam 2: Thursday, March the 7th
Exam 3: Thursday, April the 11th
Final Exam: Thursday, May the 9th (1:15pm to 3pm)

Inclement Weather:
Deadline extensions because of inclement weather, or any other unforeseen event will be considered as needed. It is the student’s reasonability to communicate such need as soon as possible.

Syllabus Changes:
This course syllabus provides a general plan for the semester; in the interest of flexibility, there may be necessary deviations, at my discretion.