Course Title: Business Statistics II  
Instructor Name: Ying Wang  
UTRGV Email: ying.wang01@utrgv.edu  
Meeting times: 11:00 am - 12:15 pm MW  
Office location: EMAGC 3.222  
Course Number: QUMT-3341-03  
Term: Fall 2019  
Telephone: 665-7428 (office)  
Meeting location: EACSB 2.148  
Office Hours: 9:00 – 10:50 am MTWR & 12:45-3:30pm MW

Required Textbook and Software  

This course continually uses the same book and Hawkes software as QUMT 2341. If you completed QUMT 2341 at UTRGV, you already have all course resources. Please follow the instructions on pages 7&8 enroll in or transfer to current course section on Hawkes Learning website.

Course Description  
In this course, students are introduced to inferential statistic and hypothesis testing. Topics include testing hypothesis about a population mean, variance and proportion for single and multiple populations, ANOVA, regression, and Chi-Square test. Students will complete in-class exercises, Hawkes Learning assignments, and team projects to develop and apply their quantitative and analytical skills.

Prerequisite  
QUMT 2341 with a minimum grade of C.

Course Learning Goals and Outcomes  
By the end of the semester students should be able to:  
1. View decision-making problems from a quantitative perspective  
2. Understand the importance of data collection and analysis in making business decisions  
3. Understand the basics of univariate hypothesis testing  
4. Perform hypothesis tests comparing one, two and more means, variances, and proportions using z and t distributions  
5. Perform linear and multiple regression  
6. Evaluate the regression assumptions  
7. Perform hypothesis testing for the regression model  
8. Forecast using the regression model

Robert C. Vackar College of Business and Entrepreneurship Learning Goals and Mission

<table>
<thead>
<tr>
<th>BBA Learning Goals</th>
<th>This course contributes to the following College of Business and Entrepreneurship learning goals:</th>
<th>How measured</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demonstrate foundational knowledge of functional area concepts and theories.</td>
<td>☑</td>
<td>Exam and assignments</td>
</tr>
<tr>
<td>Demonstrate effective business communication skills.</td>
<td>☑</td>
<td>Project report</td>
</tr>
<tr>
<td>Apply sustainable practices (economic, social and ethical, and environmental) to business decision-making.</td>
<td>☐</td>
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</tr>
</tbody>
</table>
Demonstrate an understanding of how globalization, including conditions on the US-Mexico border, shape effective business decision making.

Apply quantitative analytical skills to business decision-making.  

Demonstrate the ability to critically analyze business issues.

Our mission is to be the agent of innovation, knowledge discovery, and economic development in South Texas, Northern Mexico, and beyond, by offering a rigorous curriculum informed by experiential learning, high quality research, and community partnerships. Your mastery of these learning goals and objectives help us to achieve this mission.

**Grading Policies (tentative)**

- Exam 1 ................................................................................................................................................... 100
- Exam 2 ................................................................................................................................................... 100
- Exam 3 ................................................................................................................................................... 100
- Final Exam ............................................................................................................................................ 100

(The lowest exam grade will be dropped)

- Project ................................................................................................................................................... 150
- Attendance Quizzes ............................................................................................................................... 100
- Assignments (homework) ...................................................................................................................... 210 (not including bonus)
- Total ....................................................................................................................................................... 760

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90% and above</td>
<td>A</td>
</tr>
<tr>
<td>80% up to 90%</td>
<td>B</td>
</tr>
<tr>
<td>70% up to 80%</td>
<td>C</td>
</tr>
<tr>
<td>60% up to 70%</td>
<td>D</td>
</tr>
<tr>
<td>Below 60%</td>
<td>F (Fail)</td>
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</table>

**Exams**

There are 4 exams and each worth 100 points. Students can drop one of the lowest test grades, and the total grades will be 300 points. The coverage of exam will be posted on Blackboard one week before the exam and students are encouraged to generate the practice tests using Hawkes Learning tool. All exams are web-based and will take place in class. The final exam is comprehensive.

**Missed Exam**

Prior arrangements must be made with the instructor, whenever possible. This arrangement will only be given to students who are able to produce an official document within a reasonable time (**within 7 days**) period. Examples of official documents are medical reports, accident or traffic violations, and other unforeseen circumstances. Official documents should be written in English. All non-United States documents must be authenticated and verified.

**Late Assignments Policy**

It is essential that assignments be completed and submitted on time. Late penalty will apply for the late submission. Athletic events and routine or pre-planned company assignments are not acceptable excuses for late work. Affected students should arrange for their assignments to be submitted prior to the deadline given.

<table>
<thead>
<tr>
<th>Day after the due date</th>
<th>Late penalty for HL Assignments</th>
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<tbody>
<tr>
<td>1-3 days</td>
<td>0%</td>
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<tr>
<td>4-7 days</td>
<td>10%</td>
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<tr>
<td>8-14 days</td>
<td>20%</td>
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<tr>
<td>15 days and more</td>
<td>30%</td>
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</table>
Assignments and Group Project Policies

Assignments: It is important to finish the assignments on time; late submission will result in the application of a penalty up to 30%. Late submissions with acceptable official excuses will be given full credit. However, they must be submitted within a reasonable time period. Routine or pre-planned company assignments are not acceptable excuses for late work. Affected students should make arrangements for their assignments to be submitted prior to the deadline given.

Group project: For the group project, NO late submission will be accepted. The sub-elements and the final group project must be submitted on time. Students will be dropped from the course if they failed to submit sub-elements by the deadlines. Late projects will be reviewed but they will not be graded nor awarded credit.

Calendar of 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 Fall 2019 include:

- August 26: First day of classes
- August 29: Last day to add a course or register for Fall 2019
- September 2: Labor Day Holiday – NO classes
- November 13: Last day to drop a course; will count toward the 6-drop rule
- November 28-29: Thanksgiving Holiday – NO classes
- December 5: Study Day – NO classes
- December 6-12: Final Exams
- December 13-14: Commencement Exercises

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Assignments Due</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>28-Aug</td>
<td>Review Chapter 9.6 -9.7 Interval Estimation</td>
<td>Ch 9.6-9.7</td>
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<tr>
<td>2</td>
<td>2-Sep</td>
<td>Labor Day (no class)</td>
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<tr>
<td></td>
<td>4-Sep</td>
<td>HT: Developing a Hypothesis and Reaching a Conclusion</td>
<td>Ch 10.1-10.3</td>
</tr>
<tr>
<td>3</td>
<td>9-Sep</td>
<td>HT: Testing a Hypothesis about a Population Mean (z-Value)</td>
<td>Ch 10.4 a</td>
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<tr>
<td></td>
<td>11-Sep</td>
<td>HT: Testing a Hypothesis about a Population Mean (t-Value)</td>
<td>Ch 10.4 b</td>
</tr>
<tr>
<td></td>
<td>16-Sep</td>
<td>HT: Testing a Hypothesis about a Population Mean (P-Value)</td>
<td>Ch 10.4 c</td>
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<td></td>
<td>18-Sep</td>
<td>HT: Testing a Hypothesis about a Population Proportion</td>
<td>Ch 10.7a &amp; b</td>
</tr>
<tr>
<td>5</td>
<td>23-Sep</td>
<td>HT: Interval Estimation about a Population Variance</td>
<td>Ch 10.8a</td>
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<td></td>
<td>25-Sep</td>
<td>HT: Testing a Hypothesis about a Population Variance</td>
<td>Ch 10.8b</td>
</tr>
<tr>
<td>6</td>
<td>30-Sep</td>
<td><strong>Exam 1 (Ch 9-10)</strong></td>
<td>Ch 10 Review [Bonus]</td>
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<td></td>
<td>2-Oct</td>
<td>HT: Comparing two population means</td>
<td>Ch 11.1</td>
</tr>
<tr>
<td>7</td>
<td>7-Oct</td>
<td>Reserved</td>
<td></td>
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<tr>
<td></td>
<td>9-Oct</td>
<td>HT: Comparing two population means unknown σ and small samples</td>
<td>Ch 11.2</td>
</tr>
<tr>
<td>8</td>
<td>14-Oct</td>
<td>HT: Paired samples</td>
<td>Ch 11.3</td>
</tr>
<tr>
<td></td>
<td>16-Oct</td>
<td>HT: Two population proportions</td>
<td>Ch 11.4</td>
</tr>
<tr>
<td>9</td>
<td>21-Oct</td>
<td>HT: Single factor ANOVA</td>
<td>Ch 12.2-12.4</td>
</tr>
<tr>
<td></td>
<td>23-Oct</td>
<td><strong>Exam 2 (Ch 11-12)</strong></td>
<td>Ch 11 Review [Bonus]</td>
</tr>
<tr>
<td></td>
<td>30-Oct</td>
<td>Evaluating model fit and model assumptions</td>
<td>Ch 13.8</td>
</tr>
<tr>
<td>11</td>
<td>4-Nov</td>
<td>Hypothesis tests and inferences concerning model prediction</td>
<td>Ch 14.5a &amp;b</td>
</tr>
<tr>
<td></td>
<td>6-Nov</td>
<td>Multiple Regression</td>
<td>Ch 14.7</td>
</tr>
<tr>
<td>12</td>
<td>11-Nov</td>
<td>Hypothesis testing with multiple regression</td>
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</tbody>
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Student Responsibilities
The College of Business Administration expects students to behave in a professional and respectful manner in the classroom and during any interaction with professors, colleagues, and other stakeholders (e.g., recruiters). Here are a few specific policies I would like each student to respect in my course:

- Read and understand course syllabus.
- Check Web site on regular basis.
- Read assigned material before class.
- Academic Honesty: Cheating of any kind is an unacceptable behavior and will not be tolerated.
  - Do your own work.
  - Do not collaborate with others on assignments unless it is specifically allowed.
- Unless otherwise noted, all work submitted to me needs to be typed (double-spaced) and stapled.
  - Make sure you follow instructions and proofread assignments.
- Arrive to class on time.
- Do not disrupt class.
  - No reading the newspaper during class.
  - No chit-chat about non-course related topics.
- No NEDs (Noise Emitting Devices, e.g., cell phones, pagers, mp3 players).
  - Please place your NEDs on vibrate or turn them off during class.
- Instructor permission is required prior to using a lap top in class.
  - A lap top computer used in class should be employed strictly for class related activities.

UTRGV Policy Statements

**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 November 14th – December 4th.

ATTENDANCE:
Students are expected to attend all scheduled classes and may be dropped from the course for excessive absences (more than unexcused 3 classes). 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:

<table>
<thead>
<tr>
<th>Center Name</th>
<th>Brownsville Campus</th>
<th>Edinburg Campus</th>
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</thead>
<tbody>
<tr>
<td><strong>Advising Center</strong></td>
<td>BMAIN 1.400 (956) 665-7120</td>
<td>ESWKH 101 (956) 665-7120</td>
</tr>
<tr>
<td><a href="mailto:AcademicAdvising@utrgv.edu">AcademicAdvising@utrgv.edu</a></td>
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<tr>
<td><strong>Career Center</strong></td>
<td>BCRTZ 129 (956) 882-5627</td>
<td>ESSBL 2.101 (956) 665-2243</td>
</tr>
<tr>
<td><a href="mailto:CareerCenter@utrgv.edu">CareerCenter@utrgv.edu</a></td>
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<tr>
<td><strong>Counseling Center</strong></td>
<td>EUCTR 109 (956) 665-2574</td>
<td>BSTUN 2.10 (956) 882-3897</td>
</tr>
<tr>
<td><a href="mailto:Counseling@utrgv.edu">Counseling@utrgv.edu</a></td>
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<tr>
<td><strong>Learning Center</strong></td>
<td>BMSLC 2.118 (956) 882-8208</td>
<td>ELCTR 100 (956) 665-2585</td>
</tr>
<tr>
<td><a href="mailto:LearningCenter@utrgv.edu">LearningCenter@utrgv.edu</a></td>
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<tr>
<td><strong>Writing Center</strong></td>
<td>BUBLB 3.206 (956) 882-7065</td>
<td>ESTAC 3.119 (956) 665-2538</td>
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<tr>
<td><a href="mailto:WC@utrgv.edu">WC@utrgv.edu</a></td>
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**Student Directions – Web based**

**Important Information**
Course ID: UTRGVDBS
School Name: University of Texas - Rio Grande Valley
Instructor Name: Ying Wang
Section Name: QUMT3341-03-Fall2019

*Do NOT purchase a used License Number or Access Code (from other students or online vendors). License Numbers and Access Codes are registered to the original purchaser only.*

**Course Enroll or Transfer**

1. Log into your Hawkes Learning account
2. Click the arrow on the right side of your name, then select **Settings**

![Settings menu]

1. Click the **Courses** tab, then **Enroll / Transfer** button on the right side
2. Fill out the pop-up form with the course information and click Enroll/Transfer.

![Enroll/Transfer Form]

or

**Explore Your Course**
Watch the Video Tour located under the profile menu to learn more about Hawkes.

1. The **Dashboard** includes your course information and the mini To-Do List.
2. The **To-Do List** shows you when you need to complete homework or take a test.
3. The **Navigation Toolbar** contains links to important tools such as your grades, eBooks, the notifications center, and messages.

**Complete Your Homework**
Each lesson involves three phases: Learn, Practice, and Certify. Use Learn and Practice to learn the concepts and work out practice problems. When you feel confident in the material, move to Certify to complete your homework. For additional help, go to [http://www.hawkestv.com](http://www.hawkestv.com) to watch videos on every lesson.

**Get Help**
If you have any questions about registering your email address and password, enrolling in your course, or using the site, please contact Hawkes Technical Support.

- **Phone:** 800.426.9538
- **Phone Hours:** Monday - Friday, 8:30am - 10:00pm ET
- **Online Chat Support:** [http://www.hawkeslearning.com/chat](http://www.hawkeslearning.com/chat)
- **Chat Hours:** 24 hours a day, 7 days a week
- **Technical Support Email:** support@hawkeslearning.com