



**QMB 3301: Business Stats & Analytics II**  
**Course Syllabus**  
**Rhet Smith**  
**Fall 2024**  
**CRN: 10607**

**Class time and Location:** TR, 1:30-2:50 PM, BUSN 309

**Email:** [rasmith4@utep.edu](mailto:rasmith4@utep.edu)

**Office:** BUSN 220, Zoom





**Office Hours:** MW, 12:00 PM – 2:30 PM; by appointment

The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.

**Course Description:**

The primary goal of QMB 3301 is to develop students’ analytics skills to solve business problems for decision-making. The course focuses on building and solving business analytics model by using various well-referenced quantitative methods such as linear regression, and, forecasting among others.

**Course Objectives and University Learning Outcomes:**

Student Learning Objective	Outcome
Test hypotheses and construct confidence intervals for the difference in population means and proportions for large and small samples by stating the null and alternative hypothesis, calculating the test statistic, calculating the critical value, and drawing a correct conclusion concerning the null hypothesis. Test hypotheses using the different types of nonparametric statistics.	 Critical Thinking Skills
Compute a regression equation, test hypotheses about the slope and intercept, compute the correlation coefficient, estimate values for the dependent variable given a set of independent variable values, and calculate other related statistics.	 Critical Thinking Skills
Use spreadsheets (Excel) for examining data and building decision models. Apply suitable traditional quantitative methods for both gaining insights from historical data as well as predicting possible future outcomes.	 Problem Solving
Develop and evaluate multiple regression models, determine how well an estimated model summarizes the data, develop nonlinear relationships, and calculate the effects of qualitative variables. Build statistical models based on objective criteria such as R <sup>2</sup> .	 Problem Solving

## Prerequisites:

Prerequisite: QMB 2301

## Course Materials:

1. **Textbook** (Optional, but strongly recommended): *Business Statistics*, 3<sup>rd</sup> Edition, Robert A. Donnelly Jr. (2019), Pearson
2. **Online Homework** (Required): Pearson's MyLab.

## Grading Policy:

- Your grade will be determined as follows:

-Two Midterm Exams	32%
-Cumulative Final Exam	26%
-Homework Assignments	42%
- Grading Scale:

▪ A = 90-100%	▪ D = 60-69.99%
▪ B = 80-89.99%	▪ F = Below 60%
▪ C = 70-79.99%	

However, I reserve the right to adjust the grading scale.

## Homework:

The majority of homework will be assigned, completed, and graded immediately via Pearson's MyLab internet platform. Each assignment will accompany the chapter or lesson covered in class and will vary by length and difficulty depending on the topic. All homework assigned will be due by 11:59 PM (MT) on the Sunday following chapter completion. I suggest not waiting to complete homework as it will directly coincide with the lectures and will only become more difficult as the work accumulates. Late assignments will receive zero credit.

## Attendance Policy:

Spot attendance through in class activities will be conducted. While attendance does not directly factor into grades, attendance is recommended and strongly correlates with class success.

According to UTEP Catalog, "At the discretion of the instructor, a student can be dropped from a course because of excessive absences or lack of effort. A grade of "W" will be assigned before the course drop deadline and a grade of "F" after the course drop deadline." See Policies and Regulations in the UTEP Undergraduate Catalog for a list of excuse absences. Therefore, if I find that, due to non-performance in the course, you are at risk of failing, I will drop you from the course. I will provide 24 hours advance notice via email.

## Exams:

There will be two midterm exams prior to the withdrawal. The final exam is comprehensive. Exam dates are non-negotiable and no make-up exams will be given.

## **Academic Honesty Policy**

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as ones' own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the Office of Student Conduct and Conflict Resolution (OSCCR) for possible disciplinary action. To learn more, please visit HOOP: Student Conduct and Discipline.

## **Guidance on Artificial Intelligence**

The use of generative AI tools such as Chat GPT is discouraged in this course.

Students must cite any borrowed content sources to comply with all applicable citation guidelines, copyright law, and avoid plagiarism. Instances that violate these guidelines will be referred to the Office of Student Conduct and Conflict Resolution.

## **Students with Disabilities and other Course Resources**

The Center for Accommodations and Support Services (CASS) aspires to provide students with disabilities, accommodations, and support services to help them pursue their academic, graduation, and career goals. If you have a disability and believe you may need services, you are encouraged to contact the center to discuss your needs with a counselor. All discussions and documentation are kept confidential. Contact: Monday through Friday 8:00 am - 5:00 pm Phone: (915) 747-5148. Location: Union Building East Room 106. E-mail: [cass@utep.edu](mailto:cass@utep.edu)

### Technology Resources

- Help Desk: Students experiencing technological challenges (email, Blackboard, software, etc.) can submit a ticket to the UTEP Helpdesk for assistance. Contact the Helpdesk via phone, email, chat, website, or in person if on campus.

### Academic Resources

- UTEP Library: Access a wide range of resources including online, full-text access to thousands of journals and eBooks plus reference service and librarian assistance for enrolled students.
- University Writing Center (UWC): Submit papers here for assistance with writing style and formatting, ask a tutor for help and explore other writing resources.
- Math Tutoring Center (MaRCS): Ask a tutor for help and explore other available math resources.
- History Tutoring Center (HTC): Receive assistance with writing history papers, get help from a tutor and explore other history resources.
- RefWorks: A bibliographic citation tool; check out the RefWorks tutorial and Fact Sheet and Quick-Start Guide.

- [The Miner Learning Center](#): Join peer-led study sessions in person or online to review content and discover study strategies in core curriculum courses.
- [UTEP Edge](#): UTEP’s cross-campus framework for student success and empowerment – develops students’ assets through high-impact experiences made possible by the expertise and dedication of faculty, staff, alumni, and community partners.

Individual Resources

- [Student Success Help Desk \(SSHD\)](#): Students experiencing challenges or obstacles to academic success including registration, financial, food, housing, and transposition resources my submit a ticket request assistance to [studentsuccess@utep.edu](mailto:studentsuccess@utep.edu)
- [Military Student Success Center](#): Assists personnel in any branch of service to reach their educational goals.
- [Center for Accommodations and Support Services](#): Assists students with ADA-related accommodations for coursework, housing, and internships.
- [Counseling and Psychological Services](#): Provides a variety of counseling services including individual, couples, and group sessions as well as career and disability assessments.
- [UTEP Food Pantry](#): Non-perishable food items are available to students who are currently enrolled in classes. Bring a Miner Gold Card to Memorial Gym, Room 105, Monday through Friday, 10 a.m. to 2 p.m.

**Syllabus Modifications Statement**

I reserve the right to change this syllabus, course content, and assignment dates. Any changes will be announced to the class promptly.

**If circumstances arise that prevent us from meeting at our regularly scheduled time and location, I will send an announcement out electronically with information regarding a virtual classroom.**

First Class 8/27	
Chapter 8	Confidence Intervals (Bus Stats I Review)
Chapter 9	Hypothesis testing for a single population
Chapter 10	Hypothesis tests comparing two populations
<b>Midterm I</b>	<b>Sept 26 / Oct 1</b>
Chapter 12	Chi-square tests
Chapter 13	Hypothesis Tests for Variance
Chapter 14	Correlation and simple linear regression
<b>Midterm II</b>	<b>Oct 29/ Oct 31 (WITHDRAWAL 11/1)</b>
Chapter 15	Multiple regression and model building
Chapter 16	Forecasting
<b>FINAL EXAM</b>	<b>ALL CHAPTERS (Thurs. Dec 12 1:00-3:45 PM)</b>