**Wayland Mission Statement**

Wayland Baptist University exists to educate students in an academically challenging, learning-focused, and distinctively Christian environment for professional success, and service to God and humankind.

**Contact Information**

**Course**

: BUAD 4335 <<VC 01>> – Business Statistics

**Campus**

: << WBUonline >>

**Term/Session**

**:** <<Spring 2 2024>>

**Instructor**

**:** <<Dr Barry Evans>>

**Office Phone Number/Cell #**

**:** <<cell: 806.388.0544 use only for text during daylight hours when email is not sufficient>>

**WBU Email Address**

**:** <<barry.evans@wayland.wbu.edu>>

**Office Hours, Building, and Location**

**:** <<online. I will respond to email within 24 hours. Text only for urgent issues>>

**Class Meeting Time and Location**

**:** <<online>>

**Catalog Description**

**:**

Theoretical concepts and practical management science applications used in solving complex quantitative decision problems.

**Prerequisite:**

MATHBus21 Bus21

 1306 or BUAD 2335

**Textbook Information**

**Required Textbook(s) and/or Required Materials**

**:**

| **BOOK** | **AUTHOR** | **ED** | **YEAR** | **PUBLISHER** | **ISBN#** |
| --- | --- | --- | --- | --- | --- |
| Business StatisticsWith MyLab | Levine | 8th | 2020 | Pearson | 9780-13583-4886 |

**Chapters 9 – 15**

*If this is an UNDERGRAD class the textbook for this course is part of the* ***Pioneer Academic Access Program****. You will have access to an eBook and interactive learning material on the first day of class through your Blackboard course site. If the course requires a physical book you can order at bookstore.wbu.edu. The cost of all your materials are billed to your student account at $26.00 per credit hour. You can choose to opt-out, however if you do you will lose access to* ***all******classes/materials*** *and have to source through third party vendors You will be notified via email with access instructions and additional information. If you are in a GRADUATE class you will have an Automatic eBook which is billed directly to your student account or a physical book that can be purchased at bookstore.wbu.edu.  If you do not wish to participate in the Automatic eBook program, you will have the first week of class to opt-out of the program (additional details will be outlined in your email instructions).*

**Optional Materials**

**:** <<List optional materials recommended to enhance student learning>>

**Course Outcome Competencies**

**:**

* Identify and describe sources and types of data and compile a set of data required for analyses.
* Describe, calculate and interpret the numerical descriptive measures, binomial and normal distributions.
* Describe the sampling distribution of the mean, sample size, and standard error of the mean.
* Formulate and test one tail and two tail hypothesis for
	+ Sample mean vs. population mean (σ known)
	+ Sample mean vs. population mean (σ unknown)
	+ Sample proportion vs. population proportion
	+ Tests for differences in two means
	+ Tests for differences in two variances
	+ Tests for differences in more than two mean
	+ Tests for differences between two or more population proportions

# Calculate and apply the linear regression model to deduce statistical inferences.

**Attendance Requirements**

WBUonline

Students are expected to participate in all required instructional activities in their courses. Online courses are no different in this regard; however, participation must be defined in a different manner. Student “attendance” in an online course is defined as active participation in the course as described in the course syllabus. Instructors in online courses are responsible for providing students with clear instructions for how they are required to participate in the course. Additionally, instructors are responsible for incorporating specific instructional activities within their course and will, at a minimum, have weekly mechanisms for documenting student participation. These mechanisms may include, but are not limited to, participating in a weekly discussion board, submitting/completing assignments in Blackboard, or communicating with the instructor. Students aware of necessary absences must inform the professor with as much advance notice as possible in order to make appropriate arrangements. Any student absent 25 percent or more of the online course, i.e., non-participatory during 2 or more weeks of an 8-week session, may receive an F for that course. Instructors may also file a Report of Unsatisfactory Progress for students with excessive non-participation. Any student who has not actively participated in an online class prior to the census date for any given session is considered a “no-show” and will be administratively withdrawn from the class without record. To be counted as actively participating, it is not sufficient to log in and view the course. The student must be submitting work as described in the course syllabus. Additional attendance and participation policies for each course, as defined by the instructor in the course syllabus, are considered a part of the university’s attendance policy.

**University Policies**

**Academic Integrity**

**:**

[Link to Statement on Academic Integrity](https://www.wbu.edu/academics/writing-center/Academic%20Integrity%20Statement%20Pol%208.4.1%20Attch%20Oct%2020222.pdf)

**Artificial Intelligence:** **No use of any generative AI tools permitted.**

* + 1. Students are required to create and produce all work themselves or with assigned group members. Any work submitted that has used an AI generative tool like ChatGPT will be in immediate violation of the academic integrity policies for the course and WBU.
		2. All assignments must be fully created, designed, and prepared by the student(s).
		3. Any work that uses generative AI will be treated as plagiarism.

**Disability Statement:** In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university. The Disability Services Coordinator and Academic Coach serves as the coordinator of students with disabilities and must be contacted concerning accommodation requests. Office: (806) 291-1057. Documentation of a disability must accompany any request for accommodations.

**Course Requirements and Grading Criteria**

<< Homework: 50%

Quizzes: 20%

Exams: 30%

**The University has a standard grade scale:**

A = 90-100, B = 80-89, C = 70-79, D = 60-69, F= below 60, W = Withdrawal, WP = withdrew passing, WF = withdrew failing, I = incomplete. An incomplete may be given within the last two weeks of a long term, within the last week of an 8-week session, or within the last two days of a microterm to a student who is passing, but has not completed a term paper, examination, or other required work for reasons beyond the student’s control. A grade of “incomplete” is changed if the work required is completed prior to the last day of the next long 16-week term or 8-week session, unless the instructor designates an earlier date for completion.  If the work is not completed by the appropriate date, the I is converted to an F.

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**Student Grade Appeals**

**:** Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Vice President of Academic Affairs to the Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.

**Tentative Schedule**

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Week** |  | **Assignment** | **Due Date** |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Week 1: Mar 27-Apr 1 | Homework Ch 9 | Apr at 11:45 p.m. |  |
| Week 2: Apr 3-8 | Homework Ch 10Quiz 1: Ch 9-10 | Apr |  |
| Week 3: Apr 10-15 | Homework Ch 11 | Apr |  |
| Week 4: Apr 17-22 | Homework Ch 12Quiz 2: Ch 11-12Exam 1: Ch 9-12 | Apr |  |
| Week 5: Apr 24-29 | Homework Ch 13 | Apr |  |
| Week 6: May 1-6 | Homework Ch 14Quiz 3: Ch 13-14 | May |  |
| Week 7: May 8-13 | Homework Ch 15 | May |  |
| Week 8: May 15-20 | Quiz 4: Ch 15Exam 2: Ch 13-15 | May |  |

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**Additional Information**

<<Section can be deleted if not needed>>