These resources are required to complete the course.

Book
Render, B., Stair, R. M., Hanna, M. E., & Hale, T.S. (2023). *Quantitative analysis for management*. (14th Edition). Pearson. 9780137043593

For your convenience, you may purchase your textbooks from [illegible] or from any other vendor of your choice. We encourage you to explore the use of e-books when available for a substantial savings.

Week 2 Quantitative analysis and probability concepts

Module 2 Individual Project

You will create this assignment following the Assignment Detail instructions below.

Nothing in business is simple. In everything, you do, you will gauge it with a level of "chance" for a successful outcome. Probability is a formal study of the laws of chance you can use to help better your odds in the game of business "chance."

Answer the following:

- Explain Bayes' Theorem.
- Select a business topic and apply Bayes' Theorem to the topic.
- What impact does the formula have on your selected topic?
- Identify a financial example of Bayes' Theorem

Your five-page response should be in APA 7 formatting and include a minimum of TWO outside sources.

Please submit your assignment. .

For assistance with your assignment, please use your text, Web resources, and all course materials.

Outcomes

1. Assess linear unbiased estimators for simple and multiple regression models when addressing business challenges

Week 3 Decision Analysis and forecasting

Module 3 Individual Project

You will create this assignment following the Assignment Detail instructions below.

Assume you have to order a new product for an upcoming market release but you do not have details on specific quantities.

What are some of the concerns when making decisions in the three decision making environments? What action(s) can you take to address the concerns?

Your5-page response should in APA 7 formatting and include a minimum of TWO outside sources.

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For assistance with your assignment, please use your text, Web resources, and all course materials.

Outcomes

1. Evaluate decision analysis principles and forecast models when addressing business challenges.

Week 4 Regression Analysis

Module 4 Individual Project

You will create this assignment following the Assignment Detail instructions below. .

Using the Literature from the California Southern Library, Answer the following:

- What are the concepts behind correlation analysis?
- Why would you test for correlation in your data? Explain.
- Based on the correlational study you retrieved from the library, provide an overview of the goals of the study and the research questions.
- Identify the correlation coefficient(s) and assess the correlation coefficient in no-technical terms.
- Then conclude whether the finding(s) is statistically significant.
- Be sure to report the p-value.
- Do you have any methodological concerns about the data or research design.

Your 5-page response should in APA 7 formatting and include a minimum of TWO outside sources.

For assistance with your assignment, please use your text, Web resources, and all course materials.

Outcomes

1. Evaluate the results of Regression and Correlation Analysis for a business problem

Week 6 Linear Program

Module 6 Individual Project

You will create this assignment following the Assignment Detail instructions below.

Using the Articles from the University Library, Answer the following:

- Provide the title and authors of the articles you located with an analysis of the work.
- Compare and contrast the studies. What are the foundational requirements for formulating linear programming problems in both of the studies?
- Formulate a linear program problem using the foundational requirements to a real world problem of your choice.

Your five-page response should in APA 7 formatting and include a minimum of TWO outside sources.

Please submit your assignment.

Your assignment will be graded in accordance with the following criteria. Check the grading rubric for this assignment.

For assistance with your assignment, please use your text, Web resources, and all course materials.

Outcomes

1. Argue the benefits of using linear programming analysis strategy to answer a business research question.