

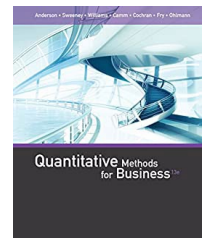


Instructor: Alex Binder
Office: Kelce Room # 211B
Hours: MW 9am-12pm; TTh 9-9:30am, 10:45-11:30am, 12:45-1:30pm; or by appointment
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Textbook

Anderson, et al. *Quantitative Methods for Business*, 13th Edition. Cengage Learning, Inc., 2016. ISBN 978-1-285-86631-4.

Note: Any form of the textbook will do. Additional companion software is not necessary.



Catalog Course Description

Tools of managerial economics, decision making under uncertainty, forecasting, regression analysis, and linear programming. Technological issues such as computers and information technologies, and manufacturing technologies are discussed with case examples. Prerequisites: MGMKT 320: Business Statistics, ECON 805: Economic Analysis, or waivers.

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Course Objectives / Learning Outcomes

Managers must successfully analyze and solve their organizational challenges and business issues in today's ever-changing competitive world with quantitative methods and approaches as they pertain to their organizations' operations, as to curtail or prevent those challenges and issues. To that end, by the end of the course students should be able to:

1. Apply analytical skills to classify organizational challenges;
2. Develop critical thinking skills;
3. Be able to identify quantitative approaches and techniques;
4. Utilize various computerized methods for problem solving; and
5. Be able to apply findings from quantitative analysis to real-world situations.

Teaching Methods

Instruction consists of videos explaining the content and showing how to do assignment problems.

Course Communication Policy

All communication will take place online via email, Canvas Inbox, or in the Canvas course discussion boards. Expect to receive a reply to your question(s) within 24 hours, Monday through Friday, unless otherwise posted by the instructor.

Course Communication Guidelines

Please use the following rules as you post to online discussions and send messages to your instructor and fellow students in the course:

1. Use professional language. Always say please and thank you and leave text messaging abbreviations out of messages and posts. Be positive and constructive in your feedback to replies to students.
2. Try not to use all caps--it comes across as shouting to the reader. Use "bold" formatting or use quotes to emphasize a word or phrase. It may be okay at times for headings or to place emphasis on a web page, but try to avoid it when communicating on discussion boards or corresponding with others electronically.
3. User proper language and titles--no slang or profanity. Even if a word is one you consider to be "not so bad", it could be offensive to others.
4. Review posts and messages before saving. Check for grammar and spelling errors and restate your message when necessary.
5. Ask for clarification. If you do not understand an assignment or feedback from me, please ask for clarification. I will do my best to word my posts/messages as clearly as possible, but in an online environment, I cannot "see" if my messages are being understood.

Technology Requirements

1. High-speed internet access is required. Make sure to have a back-up plan if your primary access is not available.
2. A computer to access Canvas and complete assignments. Mobile devices are not recommended for submitting assignments and taking Canvas quizzes. See the Canvas Privacy Policy and Canvas Accessibility Statement. Chromebooks are not compatible with Respondus Lockdown Browser.
3. A current version of an Internet Browser, preferably Mozilla Firefox or Google Chrome. See the Canvas Guides for the latest browser and plug-in requirements. See the Respondus Privacy Policy and Respondus Accessibility Statement and System Requirements for Respondus tools in this course. See also the Student QuickStart Guide for Respondus LockDown Browser and Monitor and Download the Pitt State Respondus LockDown Browser.
4. A web camera (internal or external) and a microphone will be required for taking exams in Canvas using the Respondus LockDown Browser and Monitor tools.
5. Microsoft Excel with the Solver add-in will be used for some assignments. You should, as a student at Pitt State, have access to both without any additional charge.

Attendance Policy

This is an online course and therefore no attendance. Students are expected to check their email or Canvas inbox daily for announcements.

Course Outline

Week 1	Introduction to Quantitative Business Analysis, ch. 1
Week 2	Probability & Its Application in Business Analysis, ch. 2-3
Week 3	Decision Analysis, ch. 4
Week 4	Utility & Game Theory; Forecasting, ch. 5-6
Week 5	Linear Programming and Sensitivity Analysis, ch. 7-8
Week 6	Linear Programming Applications, ch. 9-10
Week 7	Course Review

The schedule is subject to change. Each student will be notified of any changes via email.

Canvas

All course content is available on Canvas. It is imperative that each student know how to use Canvas for this course. Canvas help can be found here: <https://community.canvaslms.com/docs/DOC-10701>

Academic Integrity

All Pitt State students are bound by the academic integrity policies of the university as described and outlined in the current Syllabus Supplement. Please familiarize yourself with these rules and guidelines. In addition, as a course offered through the Kelce College of Business, students in this class are obligated to adhere to the college's Student Code of Ethics as outlined below.

Students pledge to:

- Arrive on time, remain until dismissed at all class sessions, and notify instructors in advance of anticipated absences, late arrivals, or early departures whenever possible.
- Turn off cell phones or other electronic devices while in class, unless permission to use them has been granted.
- Refrain from class disturbances.
- Refrain from use of profane or vulgar language in a threatening or disruptive manner.
- Treat fellow students, staff, faculty, administrators, and property with respect.
- Refrain from giving or receiving inappropriate assistance.
- Prepare assignment and exams honestly, refraining from such unacceptable conduct as plagiarism or unacknowledged appropriation of another's work in any academic work.
- Obey the policies, regulations, and laws of the United States of America, the State of Kansas, The Kansas Board of Regents, Pittsburg State University, and the Gladys A. Kelce College of Business.

If a student observes someone committing dishonesty in connection with academic work, the student is encouraged to report that dishonesty to the appropriate individual (ex, faculty member, or administrator).

Student Accommodations

Each student may inform the instructor if a learning or physical disability requires accommodation. Assistance and/or appropriate accommodations are available through the contacts listed on the current Syllabus Supplement.

Course Evaluation Methods

Each student's final grade will be based on their ability to demonstrate their proficiency of accomplishing the course objectives. To evaluate progress in accomplishing these objectives and to provide feedback on each student's learning the instructor will look at the following items:

Component	Weight
Assignments	25%
Quizzes	25%
Discussion Assignments	25%
Final Exam	25%

Assignments and **Quizzes** are due Sundays at 11:59pm. **Discussion assignments** are due Saturdays (1st post) and Sundays (reply post) at 11:59pm. The **Final Exam** will test your ability to understand each of the quantitative methods learned in the course, their various applications and modifications, and when they apply to decision making problems using a set of multiple-choice questions. You will take the Final Exam in Respondus Lockdown Browser. Further instructions will follow. You will solve problems covered in the modules for each **assignment**. Some will involve use of Microsoft Excel Solver (free add-in). The **quizzes** will test your understanding of the material covered in the readings. The **discussion assignments** are designed to test your ability to apply the quantitative methods you learn in the modules to your own life, current job, or career aspirations, and also to interact with your classmates. Each are worth 25% of your overall grade.

Late Submission Policy: Course deadlines are designed to provide benchmarks for the expected progress students need to make to complete the course in the seven-week timeframe. Due dates for assignments, quizzes, and discussion assignments are flexible should you encounter expected or unexpected interruptions to designated coursework times, but submitting them late is discouraged. Discussion assignments are interactive and require timely initial posts and replies to be effective. A majority of late submissions in these would be disruptive, so it is strongly encouraged that you make every attempt to submit them on time. If you need an extension, please be sure to contact the instructor. If major delays to completing coursework occur, contact the instructor and he will work with you to develop an alternative timeline for completion.

Letter grades will be assigned according to the standard scale.

A: 90%-100%, B: 80%-89%, C: 70%-79%, D: 60%-69%, F: below 60%

Given the GPA requirements for remaining in graduate programs, anything below a B is basically a failing grade. So be sure to get an A or B.

Syllabus Supplement

https://www.pittstate.edu/registrar/_files/documents/syllabus-supplement-fall-2022.pdf

Note

The instructor reserves the right to amend this syllabus at any time.