

BADM 520

Foundations of Calculus and Statistics for Business

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This is an accelerated course in applications of mathematics and statistics to business and economics.

Course Objectives:

This course is designed to give the student the necessary analytical and statistical tools needed in the graduate level business program. Some of the topics include algebraic concepts, solving systems of equations, matrix algebra, calculus, probability, and descriptive and inferential statistical concepts.

Specific Objectives:	Assessment Method
1.Solving linear equations.	Homework Ch. 1 Test 1.
2.Solving quadratic equations and inequalities.	Homework Ch. 2 Quiz 1.
3.Solving exponential and log. functions.	homework Ch. 2 Test 1.
4.Calculation and applications of derivatives.	Homework Ch.3,4 Test 1.
5.Optimization	Homework Ch.5 Test 1.
6.Calculate Mean, Mode, Median, Variance, and Correlation.	Homework Ch.3 Test 2.
7.Probability	Homework Ch.4 Test 2.
8.Compute binomial and Poisson probabilities.	Homework Ch.5 Test 2.
9.Compute probabilities from the normal distribution	Homework Ch.6 Test 2.
10.Simple linear regression	Homework Ch.12 Test 2.

School of Business Mission Statement: We are a community of scholars and practitioners committed to superior undergraduate and graduate business programs accredited by

AACSB International. We emphasize excellence in teaching, promote intellectual exchange and development, and advocate continuous learning reflecting a dynamic global environment. Our services deliver value to our students, the university, business disciplines, and society.

Freedom in learning. Students are responsible for learning the content of any course of study in which they are enrolled. Under Board of Regents and University policy, student academic performance shall be evaluated solely on an academic basis and students should be free to take reasoned exception to the data or views offered in any course of study. Students who believe that an academic evaluation is unrelated to academic standards but is related instead to judgment of their personal opinion or conduct should contact the dean of the college which offers the class to initiate a review of the evaluation.

No credit can be given for a dishonest assignment. At the discretion of the instructor, a student caught engaging in any form of academic dishonesty may be:

- a. Given a zero for that assignment.
- b. Allowed to rewrite and resubmit the assignment for credit.
- c. Assigned a reduced grade for the course.
- d. Dropped from the course.
- e. Failed in the course.

Disabilities: Any student who feels s/he may need academic accommodations or access accommodations based on the impact of a documented disability should contact and register with Disability Services during the first week of class. Disability Services is the official office to assist students through the process of disability verification and coordination of appropriate and reasonable accommodations. Students currently registered with Disability Services must obtain a new accommodation memo each semester.

For information contact:

Ernetta L. Fox, Director
Disability Services
Room 119 Service Center
(605)677-6389

www.usd.edu/ds; dservices@usd.edu.

Student Conduct/Academic Integrity - Ethical behavior is an important part of this course with respect to appropriate educational, business, and personal behavior. I expect my

students to be honest and responsible and abide by the student conduct code of USD. Cheating of any kind may result in the most severe penalty at my disposal. These penalties may include a zero for an exam, a grade of F for the class, or expulsion from USD. Students are expected to conduct themselves in an honest, dignified, and professional manner at all times. Failure to comply puts you at risk of being removed from the course.

Instructor Availability - During the "work week" - Monday through Friday - I will log onto the D2L course once a day to respond to e-mail and answer questions. I will make every effort to respond to your e-mails within 48 hours.

Time Expectations - Some online students may find it easy to procrastinate with their studies because this is not a face-to-face course. To avoid this please be sure to log into the course at least two or three times per week. It is expected that each student would spend an average of 9 hours per week on this course. You need to participate in the discussion boards in addition to keeping up with the reading, activities, and assignments in the class.

Online Discussion Guidelines - During online discussions you are expected to comply with good "netiquette" standards as follows.

1. Check the discussion frequently and respond appropriately. Keep paragraphs and messages to the point.
2. Focus on one subject per message and use pertinent subject titles.
3. Capitalize words only to highlight a point or for titles. Capitalizing otherwise is generally viewed as SHOUTING!
4. Be professional and careful with your online interaction.
5. When posting a long message, it is generally considered courteous to warn readers at the beginning of the message that it is a lengthy post.
6. It is not appropriate to forward someone else's messages without his or her permission.
7. It is fine to use humor, but use it carefully. The absence of face-to-face cues can cause humor to be misinterpreted as criticism or flaming (angry, antagonistic criticism). Feel free to use emoticons such as ☺ or ;) to let others know you are being humorous.
8. Resist the temptation to flame others. Remember these discussions are "public" and meant for constructive exchanges that treat others as you would like to be treated.
9. If something angers you, do not respond immediately. Wait and carefully formulate your response so that it is respectful.
10. Never say anything you would not want to see on the front page of the local newspaper.

The above "netiquette" guidelines were adapted from Arlene H. Rinaldi's article, "The Net Use Guidelines and Netiquette," Florida Atlantic University, 1994, available from Netcom, and from Carol Geu, Instructor, USD. General netiquette guidelines

can be found in the CE Online Orientation found on the Welcome Materials page of this course or at (<http://www.usd.edu/cd/orientation.pdf>). For more information on netiquette please review the following sites, <http://dtcc.edu/cs/rfcl855.html> or <http://albion.com/netiquette/corerules.html>.

University Drop Policy: Last day to drop with a W, Monday, November 16. Last day to drop without paying, Thursday, September 10.

Grading Policy:

Tests 60%
Work 20%
Quizzes 20%

Grading Scale:

A > 91%
B > 80% but less than or equal 91%
C > 74% but less than or equal 80%
D > 60% but less than or equal 74%
F less than or equal 60%

Texts: **Calculus for Business, Economics, Life Sciences, and Social Sciences (11th edition) by Raymond A. Barnett, Michael R. Ziegler, and Karl E. Byleen (Prentice-Hall, Inc., 2008)**

Chapter

Assignment

1	pps. 11: 5, 11, 18, 26, . pps. 25: 7, 13, 19, 30, 41, 48, pps. 37: 1, 2, .
2	pps. 59: 2, 6, 23, 28, pps. 73: 3, 8, 15, 43, . pps. 103: 3, 4, 7, 9. pps. 116: 1, 3, 9, 12, 25, 29.
3	pps. 141: 3, 8, 18, 23, 27, 55, 59. pps. 180: 5, 11, 27, 28. pps. 189: 3, 5, 11, 16, 25, 42, 46. pps. 197: 3, 5, 11, 16, 19,

4 pps. 221: 4, 7, 10.
pps. 231: 1, 5, 11, 19, 33, 41.
pps. 239: 5, 9, 17, 22, 35, 39, 43.
pps. 248: 1, 3, 5, 8, 22, 33.
Pps. 256: 1, 5, 7, 11, 23.

5 pps. 289: 19, 23, 49.
pps. 307: 3, 5, 10, 13.
pps. 341: 1, 11, 27, 30.

Test #1

STATISTICS

Business Statistics: A First Course 4th Edition by
David M. Levine, Timothy C. Krehbiel, and Mark L.
Berenson,

3 pps. 92: 13, 14
pps. 108: 37, 41

4 pps. 129: 1, 3, 8
pps. 137: 16, 19, 21, 25

5 pps. 165: 7, 8, 11
pps. 169: 18, 20, 21

6 pps. 192: 1, 3, 6, 11

12 pps. 419: 1, 3, 5
pps. 427: 16, 20
pps. 437: 36

Test #2

Supplemental handouts and assignments will be made for other
statistical topics.