

BA 275 – BUSINESS QUANTITATIVE METHODS
Tuesday and Thursday 10:00 – 11:50 A.M.
MKH-203, Albany
Spring Quarter 2015, Starts 31-Mar
CRN 40100

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Office Hours: M & W (12-1) and T & Th (8-9)

Text & Required Resources:

1. Basic Statistics for Business and Economics, 8th Ed. 2013, Lind Marchal, Wathen, McGraw-Hill Irwin
2. Calculator (single-use device).

Prerequisite: MTH 241 and MTH 245, or higher

Purpose of Course:

Upon successful completion of the course, the student will be competent in the use of basic statistical applications in gathering and analyzing data, constructing and conducting research experiments, and appropriate model selection in solving business problems.

Grading:

Final course grades will be determined based on the following point system:

Item	Points	Grade (%)	Equivalent Points	Indicates
Homework	100	A (90-100%)	540 and up	Excellent Work
Class Quizzes	100	B (80-89%)	480 to 539	Above Average Work
3 Exams	400	C (70-79%)	420 to 479	Average Work
Totals	600	D (60-69%)	360 to 419	Below Average Work
		F (below 60%)	Less than 360	

Exams:

There will be three exams given during the term. The first two exams will be worth 100 points each and the final (a cumulative exam) will be worth 200 points and will be given during the assigned 2-hour final time. All exams must be taken on the date scheduled unless prior arrangements have been made. Late exams will not be given. If you have missed a mid-term exam and have compelling and documented circumstances (job conflicts, oversleeping, car trouble & traffic jams are not acceptable), I may allow you to add these points into the final exam score, adjusted for the appropriate points.

Quizzes:

You will be assigned a short quiz in class each day. There is no make-up for these in class quizzes after class. If you know you will be absent, you can make up your quiz prior to class.

Homework:

For each chapter, several “study problems” have been assigned. These problems will not be graded, but will be reviewed in class each day, as needed. Homework problems listed under the “graded homework” heading on the outline will be graded and are due at the beginning of class on the date listed – **show your work! Late homework will not be accepted**, however, only the highest 10 homework scores (out of 11 possible) will be counted in the final grade (therefore, you will have one “throw-out”). **Note:** Assignments e-mailed are subjected to a 20% penalty (assuming they are received timely).

Veterans:

Veterans and active duty military personnel with special circumstances are welcome and encouraged to communicate these, in advance if possible, the instructor.

Disability Services:

Students who may need accommodations due to documented disabilities, who have medical information which the instructor should know, or who need special arrangements in an emergency, should speak with the instructor during the first week of class. If you have not accessed services and think you may need them, please contact Disability Services, (541) 917-4789.

Academic Integrity:

Students are expected to follow College policies regarding academic integrity as articulated in the Students Rights and Responsibilities Handbook [<http://www.linnbenton.edu/studentrights/standards.html>]. You will receive an F in the course if you are found to be involved in academic dishonesty (cheating, plagiarism, etc.).

LBCC Comprehensive Statement of Nondiscrimination

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. (for further information:

<http://po.linnbenton.edu/BPsandARs/1015%20-%20Nondiscrimination%20Policy.pdf>)

If you withdraw from class:

Remember! Students who are unable to successfully complete the course should withdraw, by submitting the proper paperwork, no later than the Monday of the second (2nd) week of class.

Syllabus

This syllabus and outline are a guide, not a contract. They will change during the term as I attempt to provide the most compelling and useful learning experience possible. If things do not make sense, please talk with me. As changes are made, I will announce them in class. You should check the syllabus at least once a week for course updates. Not reading the syllabus does not constitute a valid excuse for missing a milestone.

How to be successful in this class:

- Read your assigned chapters before you come to class! Make (lots of) notes while reading.
- Come to class. In class take lots of notes!!
- Work out these notes after class!!! (don't wait too long). Mark the things you do not quite comprehend and if you cannot figure them out (try!!), go see your instructor.

Please turn off cell phones during class!

Outline by Date – Tentative

Date	Day	Lecture Topic	Study Problems	Graded Homework
3/31	T	Introduction, Chapter 1	Chapter 1: Ex. 1, 2, 4, 5, 6, 7	
4/2	Th	Chapter 2: Describing Data	Chapter 2: Ex. 3, 11, 15, 31, 35	Ch 1. Ex. 8, 10, 20 & 22
4/7	T	Chapter 3: Numerical Measures	Chapter 3: Ex. 9, 15, 23, 35, 38, 43, 47, 55, 59	
4/9	Th	Chapter 4: Displaying Data	Chapter 4: Ex. 5, 13a & 13b, 17	Ch. 2 Ex. 42 & 46 Ch. 3. Ex. 60 & 64
4/14	T	Chapter 6: Discrete Probability Distributions (no 6.6)	Chapter 6: Ex. 3, 5, 13, 21, 27, 28, 29, 39, 43, 47	
4/21	T	Chapter 7: Continuous Distributions	Chapter 7: Ex. 10, 11, 15, 19, 21, 27, 39	Ch. 4 Ex. 22 & 26 Ch. 6 Ex. 34 & 42
4/23	Th	Exam #1 – 100 points		
4/28	T	Chapter 8: Sampling	Chapter 8: Ex. 10, 15, 18	Ch. 7 Ex. 36, 38, 40 & 44
4/30	Th	Chapter 9: Estimation & Confidence Intervals	Chapter 9: Ex 1, 7, 11, 12, 15, 17, 23, 25, 29, 30, 45	
5/5	T	Chapter 10 Test of Hypothesis	Chapter 10: Ex. 5, 6, 12, 13, 17	Ch. 8 Ex. 34 & 38 Ch. 9 Ex. 42 & 54
5/7	Th	Chapter 10 Test of Hypothesis		

5/12	T	Chapter 11: 2-Sample Tests <i>Introduction:</i> 11.1 – 11.3	Chapter 11: Ex. 3, 4, 9, 11, 13, 16	
5/14	Th	Chapter 11: 2-Sample Tests <i>Continued:</i> 11.4 – 11.6	Chapter 11: Ex. 19, 26, 29, 32, 35, 43	Ch. 10 Ex. 28, 48, 56 & 58 Ch 11 Ex. 4, 10, & 12
5/19	T	Review for Exam		Ch 11 Ex. 28, 30, 46, 48
5/21	Th	Exam #2 – 100 Points		
5/26	T	Chapter 12: ANOVA	Chapter 12: Ex. 5, 6, 9, 13, 15, 23, 28	
5/28	Th	Chapter 15: Chi-Square (no 15.5 and 15.6)	Chapter 15: Ex. 1, 4, 7, 10, 17, 19	Ch 12: Ex. 18 & 22
6/2	T	Chapter 13: Regression	Chapter 13: Ex. 5, 6, 11, 17, 19, 21, 29	
6/4	Th	Review for Final Exam		Ch 13: Ex. 40, 44, 58 & 60 Ch 15: Ex. 22 & 28
6/9	T	Final Exam – 200 Points Tuesday, 6/9/15 from 9:30 – 11:20 a.m.		Practice Final Exam <i>(This will count as your final two homework assignments and is due in class prior to taking your final exam)</i>