

## SYLLABUS

### ECONOMICS 156 B

### ECONOMICS AND BUSINESS STATISTICS

SPRING TERM 2011

**INSTRUCTOR:** Dr. Linda L. Ravelle  
Comenius 217  
861-1453  
[mellr01@moravian.edu](mailto:mellr01@moravian.edu)

**HOURS:** M,T,W 9:00 – 10:00 AM  
Also by appointment

**TEXT:** ESSENTIALS OF STATISTICS FOR BUSINESS AND ECONOMICS, 6e  
Anderson, Sweeney, Williams; South-Western Cengage Learning, 2011.

**COURSE OBJECTIVES:** This course is designed to introduce you to the field of statistics and its many applications in business and economics. The course uses lectures, class discussion, lab work, assignments and exams to help you develop critical thinking skills that will allow you to recognize, describe, and analyze economic problems using statistical tools. You will also learn to use Excel and Minitab to help you solve these problems.

**CLASS TIMES:** M,W,F 11:45 to 12:55

**GRADES:** The course grade is determined by the following formula:

Four Exams	60%
Assignments	30%
Class Participation	10%

**EXAMS:** There are three midterm exams and one final exam. The exam dates are noted on the syllabus and will not be changed. Exams consist of problems and short answer questions. Formula sheets and tables will be provided, but you must bring calculators to all exams. Your calculator should perform basic statistical functions, and you should know how to use it before you take an exam. You cannot share calculators, and you cannot use cell phones as calculators. Makeup exams are given only in EMERGENCY situations and are significantly different than the original exam. Cell phones must be turned off and kept out of sight during all exams.

**ASSIGNMENTS:** You should read assigned chapters before coming to class. Homework assignments for each of the chapters are listed on the syllabus, and are due upon completion of the relevant material, on due dates announced in class. These assignments will be graded and **YOU MUST SHOW ALL WORK** for full credit. If you have trouble with a problem, you will find answers to other problems (self-test and even numbered) in Appendix D of the textbook. Exercise and cases typed in **bold** must be completed using Excel or Minitab (as specified in class), and all other problems must be completed manually. The data sets for the Excel and Minitab problems and cases can be found on the textbook website. If you turn in an assignment late (after the class period in which it is due) the grade will be reduced one letter grade per day late. **PLEASE NOTE:** the dates, chapters, and assignments are subject to change. Additional homework may be assigned. If you miss class, you are responsible for finding out about due dates and changes in assignments. Failure to attend class is **NOT** an excuse for turning in assignments late.

**ATTENDANCE AND PARTICIPATION:** Attendance in this class is required. The class participation grade is based upon timely attendance (50%) as well as participation in class discussions (50%). Please do not disrupt class by arriving late or leaving early. If you are late or leave class frequently, your attendance grade will be reduced. Read the material before you come to class, and bring your textbooks to class. This class will make extensive use of computers, but you may only use the computers when we are working on Excel or Minitab problems in class. Computers must be kept closed at all other times. You can only use the computers for classroom work. **DO NOT** use computer for non-classroom purposes (email, internet browsing, etc.) during class time or you will be asked to leave class and will be considered absent.

**HONESTY:** All students are expected to adhere to the College's Policy on Academic Honesty as outlined in the Student Handbook. Students who violate the Policy must accept the consequences dictated by this policy. If you have any questions about this policy, please see me.

**CELL PHONES:** You may not use cell phones in class. Please turn them off before you come to class. If you text during class you will be marked absent.

**OTHER:** If you have trouble with any of the material covered in this class, let me know as soon as possible. The material is cumulative, so you should not assume that you can skip the parts you do not understand, or that you can catch up later. If you need help beyond what I can provide, a departmental tutor is available.

Students who wish to request accommodations in this class for a disability should contact Mr. Joe Kempfer, Assistant Director of Learning Services for Disability Support, 1307 Main Street (extension 1510). Accommodations cannot be provided until authorization is received from the office of Learning Services.

**DISCLAIMER:** I will make every effort to cover the material outlined in this syllabus. However, unexpected events may lead to delays or changes in assignments. I will announce any changes in class.

DATE	TOPIC	CHAPTER	ASSIGNMENTS
Jan 17	Data and Statistics	1	
19	Descriptive Statistics I	2	5, 17(a,b,c),21,49 <b>Case Problem 1</b>
21			
24			
26	Descriptive Statistics II	3	7,17,35,47,57,61,63,69 <b>Case Problem 3</b>
28			
31			
Feb 2	Introduction to Probability	4	7,13,19,27,35,41,49,51,57 <b>Case Problem</b>
4			
7			
9	EXAM I		
11	Discrete Probability Distributions	5	11,23,35,37,41,51,53,63 <b>Handout Ch 5</b>
14			
16			
18	Continuous Probability Distributions	6	5,17,23,29,37,39,47,53 <b>Case Problem</b>
21			
23			
25	Sampling Distributions	7	15,17,25,29,39,43,47,51
28			
Mar 2			
4	EXAM II		
7	SPRING BREAK		

DATE	TOPIC	CHAPTER	ASSIGNMENTS
Mar 9	SPRING BREAK		
11	SPRING BREAK		
14	Interval Estimation	8	3,7,19,21,27,41,51,55 <b>Case Problem 2</b>
16			
18			
21	Hypothesis Testing	9	3,7,19,33,41,49,57 <b>Case Problem 2</b>
23			
25			
28	Comparisons Involving Means	10	5,17,23,33,37,43 <b>45, Case Problem 1</b>
30			
Apr 1			
4	EXAM III		
6	Comparisons Involving Proportions	11	TBA
8			
11			
13	Simple Linear Regression	12	13,21,29,41, <b>51,57, Case Problem 1</b>
15			
18			
20	Multiple Regression	13	3,13,21,33,39,41 <b>9,17,30, Case Problem 3</b>
22	EASTER BREAK		
25	EASTER BREAK		
27			

DATE	TOPIC	CHAPTER	ASSIGNMENTS
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Apr 29

May 2 FINAL EXAM

8:30 AM