

Syllabus-Economics and Business Statistics (ECON 156 A)

Lectures-TH 9.30 am-11.00 am, MEMOR-202

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Office Hours- TH 11.00am-12.00pm

Course Description and Learning Objectives

This course covers basic statistical concepts and their measurement. Topics covered include descriptive statistics, probability theory and probability distributions, interval estimation, statistical inference, hypothesis testing and linear regression analysis. It utilizes datasets on various economic and business indicators to demonstrate how the statistical tools and methods are applied in practice. The course relies on a combination of lectures, class discussions, lab work, assignments, and exams to deliver the material to students. At the end of the course students are expected to be able to use sound statistical analysis in their future empirical work.

Textbook: "Essentials of Statistics for Business and Economics," 4e, Anderson, Sweeney, and Williams: South-Western, 2006.

Exams, Homework, and Grade Policy

Exams

Mid term exam dates are noted on the syllabus and will not be changed. The final exam will be administered during the final exam period, on a date and time assigned by the registrar later in the semester. Exams consist of problems and short essays/short answer questions. Formula sheets and tables will be provided. Makeup exams are given in EMERGENCY situations only, and are significantly different from the original exam. Cell phones must be turned off and kept out of sight during all exams.

Homework

Homework will be assigned after finishing the relevant topics as noted on the syllabus, and the due date will be given after it is assigned. Homework assignments will consist of short answer questions and problems. **YOU MUST SHOW ALL WORK.** If you miss class, you are responsible for finding out about due dates and changes in assignments. **PLEASE NOTE:** the dates, chapters, and assignments are subject to change. 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. All homework should be turned in as hardcopy unless I specify other terms. There will be **No Makeup** homework.

I urge you to do all homework assignments because this will make you understand the material better and will significantly improve your performance on exams.

Grading

Project	10%	A	92-100	C	73-76
Homework	20%	A-	89-91	C-	70-72
Attendance and Participation	5%	B+	86-88	D+	67-69
In-Class quiz	5%	B	83-85	D	63-66
Three Midterm Exams	45%	B-	80-82	D-	60-62
Final Exam	15%	C+	77-79	F	<60

Attendance, Participation, and Communication

Regular attendance and active participation is important. We will extensively use computers to work on problems. You can only use the computers for classroom work. DO NOT use computers for non-classroom purposes (email, internet browsing, etc.) during class time or you will be asked to leave class.

I will post power point slides, excel examples, and other class materials on Blackboard. You can always download the materials and check your performance on Blackboard. Therefore, it is important for you to be familiar with Blackboard. I expect that all of you will check your College email account (or Blackboard) regularly. If you haven't done so, please make sure the email account works for you. I also encourage you to raise questions in the class and be an active discussant. Meanwhile, you are welcome to drop by my office if you have any questions.

Academic Honesty

I encourage you to study in groups and to discuss all homework assignments, but you must write your own homework answers. If you copy your answers from another student or if you let another student copy from you, you will receive a zero for the HW assignment. If you copy an exam answer from another student, you will receive a zero on the exam. Please read the College's Policy on Academic Honesty in the Student Handbook. A copy of the policy can be found on the College web site at: <http://www.moravian.edu/studentLife/handbook/academic2.htm>. If you have any questions about this policy, please see me.

Learning Disabilities

Any student who wishes to disclose a disability and request accommodations for this course first MUST meet with either Mrs. Laurie Roth in the Office of Learning Services (for learning disabilities) or Dr. Ronald Kline in the Counseling Center (for all other disabilities).

Tentative Course Schedule

This schedule is tentative, and subject to change. Any variations will be announced in class.

January 15-31

Chapter 1: Data and Statistics
Chapter 2: Descriptive Statistics: Data Presentation
Homework #1 (Chapters 1, 2)
Chapter 3: Descriptive Statistics: Numerical Measures
Homework #2 (Chapter 3)

*January 21: no class (holiday)

February 5-28

Chapter 4-6: Probability and Probability Distributions
Homework #3 (Chapters 4-6)
Review
February 7 **Exam 1** **Chapters 1, 2, and 3**
Chapter 7: Sampling and Sampling Distributions
Homework #4 (Chapter 7)

March 11-27

Review
March 13 **Exam 2** **Chapters 4-6, 7**
Chapter 8: Interval Estimation
Homework#5 (Chapter 8)
Chapter 9-10: Hypothesis Tests
Chapter 9-10: Hypothesis Tests
Homework #6 (Chapters 9-10)

*March 1-9: Spring Break (no classes)

*March 20-24: Easter Recess (no classes)

April 1-24

Review
April 8 **Exam 3** **Chapters 8-10, 12**
Chapter 12: Simple Linear Regression
Chapter 13: Multiple Regression
Chapter 13: Multiple Regression
Homework #7 (Chapters 12, 13)

Final Exam -exact date and time will be assigned by the registrar later in the semester.