

## Economics and Business Statistics

Instructor: Jennifer Petersen  
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Office Hours: MW 11:30 am – 12:30 pm, T 1:00 pm – 3:30 pm, and by appointment  
Additional office hours may be available on the day prior to an exam.

### Course Goals:

1. Collect a data set, identify the sampling method used, and recognize potential bias
2. Apply various statistical tools to describe your data set including: descriptive statistics, hypothesis testing, and regression analysis
3. Scrutinize and interpret your results and draw meaningful conclusions
4. Display your data in a way that is concise, visually appealing, and provides information to the reader
5. Compile a portfolio that demonstrates proficiency of the preceding goals

### Course Material:

- Chapter 1: Data and Statistics
- Chapter 2: Descriptive Statistics: Tabular and Graphical Methods
- Chapter 3: Descriptive Statistics: Numerical Methods
- Chapter 4: Introduction to Probability
- Chapter 5: Discrete Probability Distributions
- Chapter 6: Continuous Probability Distributions
- Chapter 7: Sampling and Sampling Distributions
- Chapter 8: Interval Estimation
- Chapter 9: Hypothesis Testing
- Chapter 10: Comparisons Involving Means
- Chapter 12: Simple Linear Regression
- Chapter 13: Multiple Regression

**Textbook:** Essentials of Modern Business Statistics with Microsoft Excel, 2e, Anderson, Sweeney, and Williams; South-Western Publishing, 2004.

**Grades:** Your grade will be based on:

- 1.) 4 Exams 80% (20% each),
- 2.) 3 Portfolio Projects 15% (5% each),
- 3.) 1 Final Portfolio 5%.

Exams: Exams will include short answers questions and/or problems. Each exam will cover material since the prior exam. You may use a calculator that does not have memory and you may not share calculators. Formulas sheets will be provided. Make-up exams may be granted at the discretion of the instructor (see Attendance Policy below). Exam dates are scheduled as follows:

Exam 1: Friday, September 15

Exam 2: Friday, October 13  
Exam 3: Friday, November 10  
Exam 4: TBA

Portfolio Projects: Three portfolio projects will correspond to the material for exams 1, 3, and 4. Please refer to the separate handout for a more thorough description. Portfolio projects are due by the beginning of class on the due date. Late submissions will be given only partial credit at the discretion of the instructor. Portfolio project due dates are:

Portfolio Project 1: Friday, September 29  
Portfolio Project 2: Wednesday, November 8  
Portfolio Project 31: Friday, December 1

Final Portfolio: At the end of the semester, you will compile the portfolio projects into a final portfolio that you will be able to reference in the future when you work with statistics. The final portfolio will include revisions to the portfolio projects. A portion of the grade will be based on organization and presentation. The final portfolio is scheduled to be due:

Final Portfolio: Monday, December 11 (last day of class)

A **rough estimate** of letter grades that correspond to percentage grades that you receive on your exams, portfolio projects, and final portfolio are as follows:

		B+	86-88%	C+	76-78%	D+	66-68%
A	92-100	B	82-85%	C	72-75%	D	62-65%
A-	89-91%	B-	79-81%	C-	69-71%	D-	59-61%
						F	58% or below

**Attendance Policy:** You are expected to attend every class. In case of illness, emergency, or conflict in schedule, you may use your discretion. You will not be formally penalized for missing class on a day when there is no exam or no portfolio project is due. If you anticipate a conflict on the day of an exam, please speak with your instructor as soon as possible to discuss alternative arrangements. Your instructor will determine if you will be able to take the exam at an alternate time. If you are absent on a day that a portfolio project is due, you are still expected to turn in your project before or at the time that it is due unless of extenuating circumstance. Please talk with your instructor in person about any absences. All decisions regarding absences that affect your grade via exam or portfolio project will ultimately be made with your instructor's discretion.

**Academic Honesty Policy:** Please refer to the College's Policy on Academic Honesty in the Student Handbook. [www.moravian.edu/studentLife/handbook/academic2.htm](http://www.moravian.edu/studentLife/handbook/academic2.htm).

**Class Policy:** Turn off cell phones prior to class. No personal correspondence via electronic devices should be used during class. Please respect your instructor and fellow classmates at all times. If you have any questions or comments during class, please feel free to discuss them at the time to alleviate any confusion and to enrich the learning environment. If you have any concerns with the instructor or course content, please first talk with the instructor in person.

**Name:** \_\_\_\_\_ **#** \_\_\_\_\_ **email:** \_\_\_\_\_

**Name:** \_\_\_\_\_ **#** \_\_\_\_\_ **email:** \_\_\_\_\_