

Math 107 – Elementary Statistics
Fall 2012

Instructor – Dr. Fraboni
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Office hours: Tue: 10-11:30, Wed/Fri: 1-2

Course Materials – The text is *Introduction to Statistics and Data Analysis*, Fourth Edition by Peck, Olsen, and Devore. In addition we will use a graphing calculator with statistics capabilities. The TI-84 will be used for classroom demonstrations and is suggested.

Course Goals – After successfully completing this course students will:

- have an understanding of how data is collected and gain experience collecting their own data sets.
- be able to effectively summarize data using graphical displays, and interpret data and draw conclusions based on graphical displays of data.
- understand that the purpose of collecting and analyzing data is to answer questions and make informed decisions.
- understand the role of probability and uncertainty in data analysis.
- be able to explain clearly, both orally and in writing, how the results of statistical analyses relate to the context from which they were obtained.
- learn to think critically about data and the results of data analyses that occur in their everyday lives.

Homework/Quizzes – Each day there will be homework assigned. Some problems will be turned in, some are just for practice. It is vital that you do all the homework problems assigned; you should keep all your work in a binder or notebook for reference. For every hour in class you should expect to spend 2 hours doing work outside of class. You cannot learn math without lots of practice!

Approximately once a week we will have a short, in-class quiz. The quiz questions will be based mostly on the assigned homework problems. The best way to do well on the quizzes is to do all the assigned homework.

Exams – We will have three in class exams and a cumulative final exam. The dates for the in class exams are tentatively scheduled for Fridays, September 21, October 19, and November 16. The final exam is scheduled for Wednesday December 12 at 8:30am.

If you must miss any exam it is your responsibility to contact me **in advance** to make arrangements.

Attendance – Mandatory. Regular attendance is vital. Make-up exams are given only in extreme, pre-approved cases. If you must miss an exam it is your responsibility to contact me in advance. Students who are unable to attend class are responsible for all assignments and material covered in that class.

Grading – Grades will be the result of homework, four exams, and a cumulative final. The breakdown is as follows:

Quizzes/Homework – 25% total

In-class exams – 15% each

Final exam – 30%

Disclaimers – This syllabus is subject to change through the semester. Any updates to the syllabus will be announced in class. The instructor reserves the right to apply qualitative judgment in determining final grades for the course.

Learning Disability Accommodations – Students who wish to request accommodations in this class for a disability should contact Elaine Mara, assistant director of learning services for academic and disability support at 1307 Main Street, or by calling 610-861-1510. Accommodations cannot be provided until authorization is received from the Academic Support Center.

Mathematics Department Academic Honesty Policy – The Mathematics Department supports and is governed by the Academic Honesty Policy of Moravian College as stated in the Moravian College Student Handbook. The following statements will help clarify the policies of members of the Mathematics Department faculty.

In all at-home assignments which are to be graded, you may use your class notes and any books or library sources. When you use the ideas or thoughts of others, however, you must acknowledge the source. You also may not use a solution manual or the help (orally or in written form) of any individual other than your instructor. If you receive help from anyone other than your instructor or if you fail to reference your sources, you will be violating the Academic Honesty Policy of Moravian College. You may work with your fellow students on homework which is not to be graded. You are responsible for understanding and being able to explain the solution of all assigned problems, both graded and un-graded.

All in-class or take-home tests and quizzes are to be completed by you alone without the aid of books, study sheets, or formula sheets unless specifically allowed by your instructor for a particular test.