Math 127: Introduction to Statistics
Fall 2012
Course Syllabus

Instructor: Brian J. Shelburne
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Class Meetings: MWF 12:40 - 1:40 Rm 261 BDK Science

Office Hours: See course website

Text: *The Basic Practice of Statistics – 4th Ed*; David S. Moore

Technology: Minitab, Java Based Web Apps (from textbook web-site), TI-84+ calculators

Prerequisites: There are no prerequisite courses for 127. But you need at least Level 23 on the Math Placement Exam. (Level 24 is required for Math 120: Elementary Functions (a.k.a. Pre-calculus and Level 25 is required for any Calculus course)

Grading

<table>
<thead>
<tr>
<th>Category</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests/Quizzes</td>
<td>450 pts</td>
</tr>
<tr>
<td>Homework</td>
<td>95 pts  (19 Homework Assignments @ 5 pts each)</td>
</tr>
<tr>
<td>Misc</td>
<td>105 pts</td>
</tr>
<tr>
<td>Project</td>
<td>250 pts</td>
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<tr>
<td>Total</td>
<td>900 pts</td>
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The grading for the course is broken down into four discrete categories – Tests/Quizzes (there are four 100 point exams and two quizzes worth 30 and 20 points), Homework (there are 19 Homework assignments taken from the textbook and graded only on it being completed and turned in), Miscellaneous (mostly doing and handing in smaller assignments & worksheets not taken from the text book) and a final Project (which includes points given for completing milestones on time).

General Overview of Course

Exploratory Data Analysis (~5 weeks)
  General principles for effectively summarizing and organizing data, and general strategies for getting insight from data summaries.

Design (~2 weeks)
  Principles for gathering data that yield the most insight; how to plan effective observational studies and experiments.

Sampling Distributions (~1 week)
  Examining the behavior of the statistics that are commonly used.

Inference (~7 weeks)
  Drawing powerful, focused conclusions, when using data from carefully planned studies.
Expectations for Homework Assignments: Many (but not all) of the problems assigned have answers in the back of the book - so you may check your answers. If you are having difficulties with a problem get help either from me, from the Math workshop or from another classmate who may help you with the problem (but not to do the problem for you).

Rules for Homework Assignments

1. Your name (or names – see below), date and homework assignment number MUST appear clearly at the top of the page.
2. Because Minitab must be used to answer many of the homework questions, the best way to do the homework is to do it on the computer using copy & paste for answers and graphs generated by Minitab.
3. Please staple or clip multiple pages together,

Pairs of students (no more than 2) may collaborate on homework and submit a single copy; both names should appear on the paper. This does not give license to split the assignment with each person only doing half; work on the assignment together.

Late homework assignments will not be accepted.

One-Time Test Retake: If you do poorly on one test you will be allowed to redo the same test as a take home. The test grade earned will be the average of the in-class test and the take home retake. For example if you make a 50% on the in class test and a 100% on the take home retake, your grade for that test will be 75%.

1. You may only do this only once!
2. You are not allowed to consult with anyone on the retake. This especially applies to other class members and math workshop tutors. You may make free use of your text book, class notes, class handouts, course website materials and/or homework assignments but no other sources. Think serious about Wittenberg’s Code of Academic Integrity!
3. You will have one week to complete the take home test (but you may hand it in early). Do not hand in the original in-class test. I strongly suggest not looking at the old test but to treat the retake as a completely new test.
4. Since time is not a factor for the take-home retake, grading will be stricter. Therefore it is strongly suggested that you do not copy correct answers from the in-class test to your take home retake as grading will be stricter. Redo each question.
5. If you elect to retake a test you must contact me within 24 hours of the time a return the test so that I can give you a clean copy for the retake.

Honor Code. All quizzes and tests will carry the standard pledge which must be signed:

I affirm that my work upholds the highest standards of honesty and academic integrity at Wittenberg and that I have neither given nor received unauthorized assistance.

This is especially important for a take home retake. You may not, repeat not, seek help from anyone. If you have questions see me.
An honor violation involving a test or quiz will result in a grade of 0 on that test for all parties. A report will be submitted to the Honor Council (which is not good!)

Note: Homework assignments are not pledged.

**Classroom Behavior:** Over the years a couple or three things began happening in class that really bug me! So I'm going to request that you do the following

1. Please - Switch off your cell phones and no texting in class!
2. Please - don't get up in the middle of class to visit the water fountain or the rest room - unless it is ABSOLUTELY NECESSARY
3. No surfing the web!

Thank you!

**Class Attendance & Class Attendance Bonus:** You are expected to attend every class. If a class is missed you are still responsible for any missed material (i.e. all lecture notes are on-line). If you miss no more than 3 classes, 20 points will be added to your total points for the course. Note: Absences due to legitimate university sponsored events will not be counted provided I receive notification ahead of time.

**Final Note:** Your learning in this course is important to me. I invite you to talk with me about ways to ensure your full participation in this course. Please be aware that Wittenberg is committed to providing reasonable accommodations for students with documented disabilities. If you are eligible for course accommodations because of a disability, you need to register with the Academic Services Office, 206 Recitation Hall. After you register, give me your self-identification memo from Academic Services and arrange to talk with me about your learning needs privately in a timely manner. Early identification at the start of the term is essential to ensure timely provision of services. If you have questions or would like more information about services for students with disabilities, please contact Vancenia Rutherford, Assistant Provost for Academic Services, 206 Recitation Hall, extension 7891 or by e-mail at vrutherford@wittenberg.edu.