

STATISTICS 2110

Fall 2009

Instructor: Tom Smith
Office: BA 352
e-mail: tasmith@bgsu.edu
Phone: 419-372-3849
Office Hours: 1-2 pm MWF and 3:30-4:00 MW, or by appointment

Text: Keller, Gerald, *Statistics for Management and Economics*, (Eighth Edition), 2008.

Prerequisite: Credit for MATH 1260 or MATH 1310 or a C or better in MATH 1340. Note: Credit means a grade of D or better. However, a grade of C or better in MATH 1260 or MATH 1310 is required by the CBA for graduation. You may enroll in STAT 2110 with a D in MATH 1260 or MATH 1310, but this will NOT meet the requirement for graduation set by the CBA.

The prerequisite will be checked for each student. This will begin no earlier than the second week of classes and will continue until completed. Any student not meeting the prerequisite WILL BE DROPPED from STAT 2110 when this is discovered. Since you can only add courses during the first week of classes and our check will not start until the second week, it is in your best interest to drop now (if you do not meet the prerequisites) while you still have a chance to add courses. (Transfer students who earned a C or better in a calculus course at another university that did not transfer as MATH 1260 or MATH 1310 should see the Chair of the Department of Applied Statistics and Operations Research in BA 344 to see if they are eligible to remain in STAT 2110 with concurrent registration in MATH 1260 or MATH 1310).

Syllabus:

<u>TOPIC</u>	<u>SECTIONS IN TEXT</u>
Introduction	1.1-1.4
Descriptions of Data	2.1, 2.3 (histogram), 3.1-3.3, 4.1-4.2
Probability	6.1-6.5
Discrete Random Variables	7.1
Binomial Random Variables	7.4
Continuous & Normal Random Variables	8.1-8.2
Sampling Distributions	5.1-5.3, 9.1
Statistical Process Control	PowerPoint Slides
Introduction to Estimation	10.1-10.2
Determination of Sample Size	10.3
Introduction to Hypothesis Testing	11.1-11.2, 11.4

Computer Software: MINITAB 15 for Windows is available in all BA computer labs and most public labs on campus. You can download a trial version of MINITAB from their website: www.minitab.com. However, it only works for 30 days, so time it appropriately. You can also purchase a 6-month version for \$30 online.

The **cd in the back of your book** contains all the **data** for the book problems, **as does the t: drive in the BA labs.**

ATTENTION: This year for the first time in many years, there are no common exams in Stat 211. Testing and grading will be done during class time, using my tests taken during normal class time. This class will be using the computer lab once per week, with Minitab software. There is no Minitab prerequisite for this course.

Course Requirements and Grading:

Assignments/Quizzes	100 points
Two Exams	200 points (100 points each)
Final Exam (Comprehensive)	<u>150 points</u>
TOTAL	450 points

The final grade will be based on the above criteria. The grading scale is:
90-100% A 80- 90% B 70-80%% C 60-70% D 0-60% F

NOTE: Under no circumstance, aside from an official university closing, will a STAT 2110 exam be cancelled. Should a note appear outside the classroom indicating that an exam is cancelled, ignore the note and wait for your instructor to administer the exam.

As a department policy, no make-up test will be given unless the instructor is notified **in advance** (except in emergency situations) and an acceptable written excuse or official verification is presented before rescheduling the test.

In cases of emergency, contact me as soon as possible to discuss your situation.

Cheating is **NOT** tolerated and may result in failure of the course.

Note: As noted above, the collective Assignment/Quiz Score will be worth 100 points of the 450 total points possible. However, throughout the semester you will hopefully have accumulated many more points than 100 for assignments and quizzes. **DO NOT BE MISLED** by Blackboard. Your total points will be converted into a percentage (out of 100 points) which will be used as part of your total grade.

Example: Suppose we have 200 possible points in assignments and quizzes.
If you earn 160 of these points, you have 160/200 or 80%.
This 80 score is your assignments/quiz contribution to your final grade.

Assignments are due at the **beginning** of class. Late assignments will **NOT** be accepted unless arrangements have been made with the instructor **in advance** (except in emergency situations). If you have to miss a class, you may turn your assignment in early or send it with a friend to be turned in on time. **One assignment/quiz grade will be dropped.**

Note: Please differentiate between the homework problems provided with answers in Blackboard compared to ASSIGNMENTS which will be graded and assigned with deadlines. **I will never collect the homework, only the assignments! Please refer to the schedule in Blackboard to be aware of upcoming exams, quizzes, and assignments.**