

Math 311 (Fall 2016)

Statistical Concepts and Methods

Instructor: Dr. Cen-Tsong Lin

Class hours: MTTf, 2 – 2:50, Hertz 121; Wed (lab), 2:00 – 2:50, Bouillon 103

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Office hours: Monday – Friday 10 – 10.50 or by appointment

Goals:

Students will gain an understanding of statistical principles and their use. Students will learn how to collect meaningful data, summarize data using graphical and numerical techniques, apply basic probability rules and perform standard statistical analyses for one and two variables. They will learn to interpret and judge the statistical information in the world around them and how to interpret computer output.

Required Text:

Moore, Notz and Fligner, *The Basic Practice of Statistics*, W.H. Freeman and Company (7th edition)

Calculator:

A graphing calculator is required for this class. TI 83/84 is recommended, and will be the calculator used in classroom demonstrations. Calculators may not be shared or borrowed during the class-time.

Grading Policy:

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| 1. Homework and quizzes | 20% |
| 2. Lab write ups | 15% |
| 3. Two hourly tests | 40% |
| 4. Comprehensive final or final project | 25% |

Note:

1. Daily homework will be given daily with due date specified, quizzes will be given Friday, with the exception of the week of an exam. No make-up quizzes will be given, but to allow for unavoidable absences the lowest quiz score will be dropped.
2. The lab each Wednesday will include questions to be answered, including relevant statistical analyses. Your lab write ups must be submitted Canvas by 2 PM on Fridays.
3. Tentative dates of tests are Friday, 10/14 and Thursday, 11/10
4. Final exam: noon – 2:00 PM, Tuesday, 12/6

Grades will be assigned according to the following scale:

	A: 93% - 100%	A-: 90% - 92.9%
B+: 89.9% – 87%	B: 86.9% - 83%	B-: 80% - 82.9%
C+: 79.9% – 77%	C: 76.9% - 73%	C-: 70% - 72.9%
D+: 69.9% – 67%	D: 66.9% - 63%	D-: 60% - 62.9%
	F: below 60%	

I reserve the right to adjust policies in this syllabus if necessary during the quarter