

Statistics (MATH 1342 – Honors section .029)

Meeting Times: 9:05-10:00 am MWF in RBN 2007

Last day to withdraw: Monday, November 2, 2020

Instructor: Nathan Smith

Office: RBN 4007

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Office Hours: TBA; tentatively 11:15-12:10 MWF. I will survey my classes for good times for some online/zoom hours. Other times by appointment.

Text: Statistics: Unlocking the Power of Data, 2nd Edition, by Lock, Lock, Lock, Lock, and Lock. The text is available using WileyPlus, an online teaching and learning platform which you must purchase to participate in this course. You may *choose* to purchase a downloadable copy of the textbook or a loose-leaf version (suitable for putting in a 3-ring binder) for an extra fee. Go to Canvas, Modules, WileyPlus, WileyPlus Read Study & Practice. Ignore the part about a registration code. You may want to start by using the free 14 day trial – that way if your course schedule changes you won't have any extra expenses.

Course Topics: You will learn the meaning of measurements of central tendency and dispersion; sampling; probability; testing of hypothesis; correlation and regression; and analysis of variance. More importantly you will learn how you can use and understand statistics to improve your life and conduct your work.

Student Learning Outcomes: By the end of the course students should be able to:

1. Explain the use of data collection and statistics as tools to reach reasonable conclusions.
2. Recognize, examine, and interpret the basic principles of describing and presenting data.
3. Examine, analyze, and compare various sampling distributions for both discrete and continuous random variables.
4. Describe and compute confidence intervals.
5. Solve linear regression and correlation problems.
6. Perform hypothesis testing using statistical methods.

Grading:

- Test1: $\frac{1}{5}$ of your semester grade.

- Test2: $\frac{1}{5}$ of your semester grade.
- Test3: $\frac{1}{5}$ of your semester grade.
- Projects: $\frac{1}{5}$ of your semester grade.
- Homework and Class assignments: $\frac{1}{5}$ of your semester grade.

Homework Help: You are always welcome to come by my office for help with homework. I will be in my office during the posted office hours. If I am in my office you are also welcome to just drop in, however I reserve the right to be busy doing something else and if I can't help you immediately we can usually find a time that is better for both of us. Before coming to my office for homework help, you should have at least attempted the problems that you have questions about.

Missed work: It is not expected that you will miss a test. If an emergency situation or university-sanctioned event forces your absence on the day of the test and if you have discussed the situation in advance with the instructor, your final exam grade will be used to replace your test. Because much of the learning in this class revolves around discovery learning activities undertaken during the class time attendance is extremely important. I am not responsible enough to handle late work (getting it on the same pile as other papers from the same assignment, grading it, recording the grade, etc.).

Student Academic Conduct: It is your responsibility to learn the material in this course for your own benefit. You should not let this discourage you from working together on your homework but in the end what you turn in should reflect your understanding, not just be copied from someone else. *During the tests, a code of honor will apply under which students are to work alone and neither give help to others nor receive help from any sources.* Students are also expected to help enforce this code. Students are encouraged to obtain a copy of *A Student Guide to Conduct and Discipline at UT Tyler*, available in the Office of Student Affairs.

University Policies: For University policies concerning Students' Rights and Responsibilities, Grade Replacement/Forgiveness, State-Mandated Course Drop Policy, Disability Services, Student Absence due to Religious Observance, Student Absence for University-Sponsored Events and Activities, and the Social Security and FERPA Statement please see: <http://www.uttyler.edu/academicaffairs/files/syllabuspolicy.pdf>.