

- **Instructor** Zhanna Pozdnyakova

Office: AUST 321

Office Hours: Tue/Thu 2-3:15PM

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- **Lectures**

Tue/Thu 3:30-4:45PM, ITE C80

- **Texts**

Mind on Statistics, 5th Ed. for UConn, by *Utts and Heckard*

An Introduction to Data Analysis Using MINITAB 17, 5th Ed. for Uconn, by *McLaughlin and Wakefield*

- **Syllabus**

Week	Topic	Assigned Reading
1	Data, Graphical Descriptive Techniques	Chapter 1 2.1 – 2.4
2	Numerical Summaries: Central Point and Variability	2.5 – 2.7
3	Percentiles, IQR, Box Plots, Outliers Scatterplots, Linear Regression	2.5 – 2.7 3.1 – 3.3
4	Introduction to Probability, Sample Spaces, Events, Probability Rules	7.1 – 7.4
5	Conditional Probability, Independent Events, Probability Trees	7.5, 7.6
6	Discrete Random Variables; Probability Distributions, Mean and Variance; Binomial Distribution	8.1 – 8.4
7	Continuous Probability Distributions; Normal Distribution	8.5 – 8.6
8	Bivariate Distributions, Independent Random Variables, Covariance, and Correlation	8.8
9	Limit Theorems, Sampling Distributions	Chapter 9
10	Confidence Interval for a Population Mean	11.1 – 11.2
11	Confidence Interval for a Population Proportion; Sample Size Determination	10.2
12	Hypothesis Testing; Test of Hypothesis about a Population Mean: z -test and t -test; p -value;	12.1, 13.1 – 13.2
13	Test of Hypothesis about a Population Proportion	12.2
14	Comparing Two Population Means: Independent Sampling and Paired t -test, Review	13.3 – 13.4

- **Exam Schedule**

- Midterm 1 – Th, Oct 1, 3:30-4:45PM, Sections 2.1-2.7, 3.1-3.3
- Midterm 2 – Th, Nov 5, 3:30-4:45PM, Sections 7.1-7.6, 8.1-8.6
- Final – TBA

- **MINITAB assignments**

All assignments are based on data sets in the textbook by *McLaughlin and Wakefield*. Attach your MINITAB output and present your answers written (or typed) neatly. Make sure you put your name and section number on each assignment. All pages have to be stapled. The MINITAB software is available via Skybox (<http://skybox.uconn.edu/>). See HuskyCT course website for additional information.

You will submit your assignments to your TA during the discussion session. The penalty for late submission (within a week of the due date) is minus 2 pts (the total is 10 pts). No assignments will be accepted if it is late by more than one week.

Assignment#	Due on week of	Problems
1	Sep 20	Exercise 1 on p. 17 (only for ETHNIC1.MTW)
2	Sep 27	Exercises 1 and 3 on p. 33
3	Oct 4	Exercises 1 and 4 on p. 49
4	Oct 18	Exercise 1 on p. 61; Exercise 1 on p. 77
5	Nov 1	Exercises 1, 2 and 3 on p. 103
6	Nov 15	Exercises 3 and 4 on p. 121
7	Nov 29	Exercises 1, 2, and 3 on p. 143

- **Grades**

- Both midterm exams and final exam are in-class multiple choice exams,
- Permitted material: a self-made formula sheet and a calculator
- Grades are based on the following weighted sum:
 - midterms – 25% each
 - final – 30%
 - take-home quizzes – 10%
 - MINITAB labs – 10%

- The letter grade will be assigned according to the following table.

Cut-off	Letter Grade
0	F
60	D-
63.33	D
66.66	D+
70	C-
73.33	C
76.66	C+
80	B-
83.33	B
86.66	B+
90	A-
95	A

No rounding, even if your course score is 94.9999 you will get A-.

- To make up exams you need to provide a compelling reason (for instance, a doctor note); make-up exams are not multiple choice.
- There are no make-up quizzes. A quiz will not be accepted once the solution is posted online. However, in order to address unforeseen circumstances (illness, car problems etc), the lowest quiz score will be dropped.
- No extra credit projects. Consider your MINITAB assignments and take-home quizzes as extra credit work. I expect you to get full or close to full credit for these two course components, regardless of your math background.
- In the end of semester you must check all your grades and resolve all the issues if there are any. No score changes will be made after the last week of classes.

- **Other things**

- TI graphing calculator is required for this class.
- If you miss a class, it is your responsibility to get notes from somebody else and go over material in our text. I only can help you with specific questions.
- I will respond to your email within 48 hours.
- Your TAs are in charge of the MINITAB assignments. You should address your MINITAB questions to your TA.
- If you have a course related question, please check HuskyCT course website first. Most likely you will find an answer. Before you contact me try to get help from your TA.

- **Final Exam**

Students are required to be available for their exam during the stated time. If you have a conflict with this time you must visit the Office of Student Services and Advocacy to discuss the possibility of rescheduling this exam. Please note that vacations, previously purchased tickets or reservations, graduations, social events, misreading the exam schedule and over-sleeping are not viable excuses for missing a final exam. If you think that your situation warrants permission to reschedule, please contact the Office of Student Services and Advocacy with any questions. Thank you in advance for your cooperation.

- **Academic Integrity**

A fundamental tenet of all educational institutions is academic honesty; academic work depends upon respect for and acknowledgement of the research and ideas of others. Misrepresenting someone else's work as one's own is a serious offense in any academic setting and it will not be condoned.

Academic misconduct includes, but is not limited to, providing or receiving assistance in a manner not authorized by the instructor in the creation of work to be submitted for academic evaluation (e.g. papers, projects, and examinations); any attempt to influence improperly (e.g. bribery, threats) any member of the faculty, staff, or administration of the University in any matter pertaining to academics or research; presenting, as one's own, the ideas or words of another for academic evaluation; doing unauthorized academic work for which another person will receive credit or be evaluated; and presenting the same or substantially the same papers or projects in two or more courses without the explicit permission of the instructors involved.

A student who knowingly assists another student in committing an act of academic misconduct shall be equally accountable for the violation...¹

¹ The Student Code, Part VI: Academic Integrity in Undergraduate Education and Research