

MATH 1070-070 Spring 2020 Intro Stat Inference

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INSTRUCTOR - Tom Brennan

EMAIL - tombrennan@waterfordschool.org (THIS IS THE BEST WAY TO REACH ME!)

CELL - 801-580-9985. You can text me, but remember to tell me your name if you do so.

TEXTBOOK - *The Basic Practice of Statistics*, 6th or 7th ed by David Moore.

TECHNOLOGY - We will be using spreadsheets to aid us with the computations that we have to make. I will be demonstrating with Google Sheets. No fancy calculators are needed for class, however you will want a basic scientific calculator. NO cell phone calculators are allowed on quizzes or exams.

CELL PHONES - The latest research indicates that students that focus on their phones in class instead of listening and working tend to have lower grades in class than those that do. Surprising? Put them away. Pay attention (after all you paid an enormous sum to be here). Talk to the people around you when we take a break.

HELP RESOURCES-

1. Teacher
2. Math Help Center - located in TBR Math Center (this is on President's Circle between JWB and LCB.)
3. The Tutoring Center - located in SSB
4. Internet (e.g. Khan Academy)
5. Each other
6. NEW: Sandy Center from 3:30 to 7:30 PM

ADA - The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services (CDS), 162 Olpin Union Building, 581-5020 (V/TDD). CDS will work with you and me to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to CDS.

OFFICE HOURS - I will arrive in the classroom about 15 minutes prior to the beginning of class. You are welcome to come early and ask questions, stay late and ask question, or make an appointment with me to meet at another time.

HOMEWORK - You are required to turn in a hard copy consisting of 10 problems most days that we have class. These problem sets can be typed or written up. Make sure that your work is neat and organized. Sloppy work will not be accepted. The homework assignments will count for 10% of your final grade. You can choose any 10 problems that you want from the book but I suggest the problems listed under homework. **All supporting work needs to be included (even for the multiple choice questions).** Of course, you should do all of the assigned work as preparation for the in-class quizzes.

- [Make sure that you include your name, date, assignment number and all of the work supporting your solutions.](#)
- [You need to use complete sentences when writing.](#)
- [Staple your papers together if you have more than one page.](#)

QUIZZES - We will have a quiz in-class most weeks in the middle or at the end of class. Some will be collaborative and others will not. You are allowed to use a 3 inch by 5 inch card for each quiz. A few of these in the official quiz category will be take-home because the data sets will be large enough that you will want to use software as a computational aid. You get to drop your two lowest quiz scores. NO make-up quizzes allowed. These quizzes will make up 15% of your grade.

EXAMS - There are two midterm exams and a comprehensive final exam. You are allowed to use one page of notes for the first midterm and two pages of notes for the final. The second midterm is a take-home exam. The dates are set so make sure that you are there. If an emergency arises, we can schedule an alternate exam.

GRADES - Your grades will be determined by a combination of exams and quizzes. The final exam is required.

93 - 100	A
90 - 92.99	A-
88 - 89.99	B+
83 - 87.99	B
80 - 81.99	B-
65 - 79.99	C's
55 - 64.99	D's

LEARNING OUTCOMES -

- Be able to summarize the data using charts, graphs, histograms, and to calculate basic descriptive statistics like the mean, standard deviation, median and quartiles.
- Work with the normal distribution and use table to find probabilities.
- Understand the difference between correlation and causation.
- Perform regression analysis and compute correlation.

- Understand the Central Limit Theorem and the normality assumption.
- Understand the basics of tests of significance and confidence intervals including z-tests, t-tests, proportion tests, Chi-square tests, ANOVA and non-parametric tests.
- Be able to perform simple statistical analysis of large data sets using spreadsheets (throughout the whole course).

Student Names & Personal Pronouns: Class rosters are provided to the instructor with the student's legal name as well as "Preferred first name" (if previously entered by you in the Student Profile section of your CIS account). While CIS refers to this as merely a preference, I will honor you by referring to you with the name and pronoun that feels best for you in class, on papers, exams, group projects, etc. Please advise me of any name or pronoun changes (and update CIS) so I can help create a learning environment in which you, your name, and your pronoun will be respected. If you need assistance getting your preferred name on your UID card, please visit the LGBT Resource Center Room 409 in the Olpin Union Building, or email bpeacock@sa.utah.edu to schedule a time to drop by. The LGBT Resource Center hours are M-F 8am-5pm, and 8am-6pm on Tuesdays.

Addressing Sexual Misconduct: Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a civil rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information. If you or someone you know has been harassed or assaulted, you are encouraged to report it to the Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or the Office of the Dean of Students, 270 Union Building, 801-581-7066. For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776. To report to the police, contact the Department of Public Safety, 801-585-2677(COPS).

Wellness Statement: Personal concerns such as stress, anxiety, relationship difficulties, depression, cross-cultural differences, etc., can interfere with a student's ability to succeed and thrive at the University of Utah. For helpful resources contact the Center for Student Wellness at www.wellness.utah.edu or 801-581-7776.

Veterans Center: If you are a student veteran, the U of Utah has a Veterans Support Center located on the 4th floor in the Olpin Union Building. Hours: M-F 8-5pm. Please visit their website for more information about what support they offer, a list of ongoing events and links to outside resources: <http://veteranscenter.utah.edu/>. Please also let me know if you need any additional support in this class for any reason.

Learners of English as an Additional Language: If you are an English language learner, please be aware of several resources on campus that will support you with your language and writing development. These resources include: the Writing Center (<http://writingcenter.utah.edu/>); the Writing Program (<http://writing-program.utah.edu/>); the English Language Institute (<http://continue.utah.edu/eli/>). Please let me know if there is any additional support you would like to discuss for this class.

University Safety Statement: The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important emergency alerts and safety messages regarding campus safety via text message. For more information regarding safety and to view available training resources, including helpful videos, visit safeu.utah.edu ([Links to an external site.](#)).