

**SYLLABUS - MATH 1070, Section 2, Fall 2017**  
Introduction to Statistical Inference

**Instructor:** Jonathan Bown  
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**Class Hours:** TH 6:00 PM – 7:30 PM, JTB 140

**Office Hours:** TH 5:00 PM – 5:45 PM or by appointment.

**Text:** The Basic Practice of Statistics, by David S. Moore et al., 6th or 7th ed. Homework will be assigned from the 6th edition but there are compatible problems in the 7th edition.

**Prerequisite:** Completion, with a grade of C or better, of Math 1010 or Accuplacer CLM score of 50 or better.

**Expected Learning Outcomes:** Upon successful completion of this course, a student should 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.
- Perform simple statistical analysis of large data sets using spreadsheets (throughout the whole course).

**Grading:** The grades will be calculated as follows:

Homework	20%	A: 93 - 100	C-: 70 - 72
Quizzes	15 %	A-: 90 - 92	D+: 67 - 69
Exam 1	15 %	B+: 87 - 89	D: 63 - 66
Exam 2	15 %	B: 83 - 86	D-: 60 - 62
Project	5 %	B-: 80 - 82	E: 0 - 59
Final Exam	30 %	C+: 77 - 79	
		C : 73 - 76	

**Homework:** Homework will be due at the beginning of class at the dates shown on the schedule below. Late homework **will not** be accepted, but two of the lowest assignment scores will be dropped at the end of the semester.

**Quizzes:** Weekly quizzes will be given in class on Thursdays. Makeup quizzes **will not** be given, but two of the lowest quiz scores will be dropped at the end of the semester.

**Exams:** Two in-class midterm exams and a final exam will be given (see schedule for dates). All exams, midterms and the final will only be given at the scheduled time. Students are expected to arrange personal work around the announced dates. Please come by and talk to the instructor, **ONLY** in the event of the most extenuating of circumstances.

**Projects:** Near the end of the semester, students will complete a project using spreadsheet software. For this you may use your own computer, or you may use the lab in the T. Benny Rushing Mathematics Center, Rm 155C, located underground between JWB and LCB.

**Calculators:** Calculators that do not connect to the internet may be used during quizzes and exams. Cell phones **may not** be used for this purpose (or any other purpose) during quizzes and exams.

**ADA Statement:** 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.

**Student Responsibilities:** All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. You have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, collusion, fraud, theft, etc. Students should read the Code carefully and know you are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, beginning with verbal warnings and progressing to dismissal from class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee: <http://regulations.utah.edu/academics/6-400.php>