



MATH 1070-003

## Introduction to Statistical Inference

MWF 12:55 - 1:45 PM

JTB 130

Instructor: James Farre

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Course Website: <http://www.math.utah.edu/~farre/teaching/1070/>

Office: JWB 306

Office Hours: Friday 9:30-10:30AM, Tuesday 8:15-9:15AM, and by appointment

**Prerequisite(s):** “C” or better in MATH 1010 or Accuplacer CLM score of 50 or better.

**Course Description:** We will survey a range of topics including graphical presentation of data, descriptive statistics, simple linear regression, sampling, probability, confidence intervals, hypothesis tests, and analysis of variance.

**Text:** *The Basic Practice of Statistics*, by David S. Moore et al., 6th ed.

**Homework:** Homework will be assigned from the textbook and will be due regularly in class. It is due, written or typed, on a sheet of paper with your name on it, at or before the beginning of class on the day it is due. Homework received after 1:00pm on that day will be counted late. *Be sure to complete the homework using the 6th edition of the textbook.* For the convenience of students who decide not to purchase the textbook, or who use a different edition, the homework problems will be made available online through Canvas. Homework should be written neatly, showing the steps used to solve each problem with answers marked clearly. Late homework will be accepted until the last day of class (**4/25/2016**) with a penalty of 10% deducted for each class during which the homework was not turned in, up to a maximum penalty of 50%. *The lowest two homework scores will be dropped.*

**Exams:** There will be two in-class midterm exams and a comprehensive final exam. Books and notes may *not* be used during the exams. *Students will need to bring a scientific or graphing calculator to use during exams.*

**Final Exam:** The final exam for this class is comprehensive; the exam will take place Thursday, April 28, 2016, 1:00-3:00 PM. It will cover all material covered in this class.

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

**Grading:** Grades will be calculated as follows:

| Homework | Project | Exam 1 | Exam 2 | Final Exam | Total |
|----------|---------|--------|--------|------------|-------|
| 20%      | 5%      | 20%    | 20%    | 35%        | 100%  |

**Letter Grade Distribution:**

|           |    |           |    |
|-----------|----|-----------|----|
| $\geq 93$ | A  | 73 - 76   | C  |
| 90 - 92   | A- | 70 - 72   | C- |
| 87 - 89   | B+ | 67 - 69   | D+ |
| 83 - 86   | B  | 63 - 66   | D  |
| 80 - 82   | B- | 60 - 62   | D- |
| 77 - 79   | C+ | $\leq 59$ | E  |

**Online Grades:** I will use Canvas to record your grades. I will do my best to update grades on a regular basis and maintain accurate records. However, I would advise you to check your grades often to make sure there were no data entry mistakes; I'll be happy to correct any mistakes I've made, as long as I know about them!

**Email Communication:** Students must have a valid email address registered with Campus Information System. I plan to send emails to the class and expect you to be responsible for receiving that information. I will also communicate with you via Canvas.

**ADA Statement:** The Americans with Disabilities Act requires that reasonable accommodations be provided for students with physical, cognitive, systemic learning, and psychiatric disabilities. Please contact me at the beginning of the semester to discuss any such accommodations that you may require for this course.

**Services and Facilities:** The Math Center is located underground between JWB and LCB. In the math center you'll find free tutoring, computer access, group study rooms, and an individual study area. The regular hours for the Fall semester are: 8:00am-8:00pm Monday-Thursday and Friday from 8:00am to 6:00pm.

The contents of this syllabus are subject to change. If a change occurs, I will announce it in class and communicate the change electronically.