# STA 371G Outline

# Spring 2017

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Office Hours: Monday & Wednesday 3:30-5:00 PM. You are welcome to come by my

office at other times.

### Wednesday, January 18

## **Topics:**

- Introduction
- Probability
- Random variables

## Reading Assignments:

You are recommended to read:

Chapter 1 of OpenIntro Statistics, 3rd edition

## Monday, January 23

### **Topics:**

- Probability distributions
- Mean, variance and standard deviation of a random variable
- Add a constant to a random variable
- Multiply a random variable by a constant

#### Reading Assignments:

If you are not familiar with the topics discussed in class, you are recommended to read:

pp. 156-168, 189-195, of Data analysis and decision making, 4th edition or

pp. 196-206, 225-231 of Data analysis and decision making, 3rd edition

You are also recommended to read:

pp. 1-14 of "1TopicSummary\_ProbabilityConceptsAndNormalDistributions.pdf" (available in Canvas/files)

To learn more about these topics, you may further read: Chapters 2.1, 2.2, 2.4, and 2.5 of OpenIntro Statistics, 3rd edition

# Wednesday, January 25

- $\bullet$  Conditional, joint and marginal probabilities
- Independent random variables, sum of independent random variables