

# STA 371G Outline

## Spring 2016

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Office Hours: Tuesday & Thursday 5:00-6:30 PM. You are welcome to come by my office at other times.

### Tuesday, January 19

#### Topics:

- Introduction
- Probability
- Random variables
- Probability distributions
- Mean, variance and standard deviation of a random variable

#### Reading Assignments:

You are recommended to read:

Chapter 1 of OpenIntro Statistics, 3rd edition

### Thursday, January 21

#### Topics:

- Add a constant to a random variable
- Multiply a random variable by a constant
- Conditional, joint and marginal probabilities
- Independent random variables, sum of independent random variables

#### 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

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