Stat 400 / Math 463 Statistics and Probability I Spring 2021

Albert Yu

Topics for 1/26/21

Introduction

Course Objectives

Course Structure / Syllabus

Properties of Probability

Part 1: Probability

- Properties
- Conditional Probability / Independence
- Bayes' Theorem

Part 2: Distributions

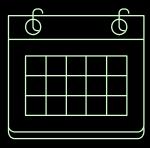
- Random Variables
- Discrete Distributions
- Continuous Distributions
- Bivariate Distributions
- Conditional Distributions
- Transformations of Normal Random Variables
- Moment Generating Functions
- Central Limit Theorem

Part 3: Statistics (Estimation and Hypothesis Testing)

- Point Estimation
- Interval Estimation
- Statistical Tests

IMPORTANT DATES

- Midterm 1: Thurs Feb 25 7:00pm
- Midterm 2: Thurs Mar 18 7:00pm
- Midterm 3: Thurs Apr 15 7:00pm
- Final Exam: TBD



Hw 0 (do before Thursday)

- 1. Download and Install R
 - http://ftp.ussg.iu.edu/CRAN/

- 2. Download and Install RStudio
 - https://rstudio.com/products/rstudio/download/