BIOS 6611
Biostatistical Methods I
Fall Semester 2019

Homework #1
Due: Tuesday, September 3, 2019 <u>by midnight</u> to Canvas Assignment Basket

1. Work through R Lab 1:

    a.   Provide R code and answers for Exercises 1-3.

    b.   Exercise 4 is for practice.

    c.   Provide R code and answers Exercise 5a (Read and Plot), and 5b. Exercises 5c-5g are for practice.

2. Read Goodman (1999) – Toward Evidence-Based Medical Statistics. 1: The p-value Fallacy. Write a half-page summary (2-3 paragraphs) that touches on:

    a.   The meaning of inductive vs. deductive reasoning as presented in the paper

    b.   What the author means by the "p-value fallacy"

    c.   Confidence intervals vs. p-values as presented in the paper

    Note 1 - Later we'll take a look at the companion paper: Goodman (1999) – Toward Evidence-Based Medical Statistics. 2. The Bayes Factor.