NSC 696
STATISTICS
SPRING 2019

Credits: 4
Level: Introductory
Class time and room: TTh 11:30 – 12:50 Sci 221
Instructor: Kaethe Minden, kminden@marlboro.edu

Text: Open Statistics 3rd edition, a freely downloadable PDF is available here: https://www.openintro.org/stat/textbook.php.

Blurb: We look at three main topics: the collection and presentation of data, the probability theory behind statistical methods and the analysis of data. Statistical tests covered include the t-test, linear regression, ANOVA and chi-squared. The open source statistical computing package R is introduced and used throughout the class.

Typically in the beginning of class, we will discuss the current section of the book and questions from the previous class. This might involve short writing prompts, or brief quizzes. Then we will discuss new topics, problems, and ideas in the second part of class.

This is a four credit course. This means you should be expecting to spend about 12 hours each week, including class time, working on the material.

Grading: Homework will consist of 50% of your grade, which will mostly consist of labs for R and problems from or related to the text. Projects will consist of 40% of your grade. This may include work on the "campus climate survey" for Marlboro, and/or your own work on a project of interest to you. Finally, 10% of your grade will be based on participation; namely in-class quizzes or writing prompts, and attendance.

What now: You will need to download a copy of the text.

To get going with R:

(1) Download the R statistical software system: https://www.r-project.org/.
(2) Then download the RStudio interactive environment for R: https://www.rstudio.com/products/rstudio/download/.
(3) In order to get started with using RStudio, complete the lab for R entitled "Intro to R and RStudio". I will send the links to google docs to you or post them on our site, they are found here: https://www.openintro.org/stat/labs.php.

Accessibility: This course will honor all reasonable accommodations for students with documented disabilities. If you have a disability that requires specific accommodation, please contact Catherine O'Callaghan, cocallag@marlboro.edu.

Academic Integrity: This course adheres to the academic integrity policy as given in the Marlboro College Handbook, available on Nook. As stated in the policy:

'Plagiarism' occurs when a student, with intent to deceive or with reckless disregard for proper scholarly procedures, presents any information, ideas or phrasing of another as if they were his/her own and/or does not give appropriate credit to the original source. Proper scholarly procedures require that all quoted material be identified by quotation marks or indentation on the page, and the source of information and ideas, if from another, must be identified and be attributed to that source. Students are responsible for learning proper scholarly procedures.