Stat 318-01: Applied Statistical Methods (Spring 19)

Instructor: Dr. Lindsey Bell
Office: SCI 218J

Office Hours: MWF 11:00-12:00, 1:00-2:00, or by appointment; email only on TTH

Materials

Course Packet: A course packet should be picked up from my office prior to the first day of class. If materials are lost, an electronic version is posted on the Moodle course site.

Software: We will use the statistical package R throughout the semester. R is a free software package for statistical computing. The R installation files can be found at `www.r-project.org`. Alternatively, you may wish to use `R` with the `Rstudio` open-source IDE found at `www.rstudio.com`. A basic calculator may be required for in-class practice and exams.

Textbook: There is no required textbook for the course.

Prerequisite: STAT 201, CBAD 291, or PSYC 225 with a grade of C or better.

Course Assessment

Homework (30%): Homework will be given regularly and is worth a significant portion of your grade. This is to emphasize the importance of the assignments and the amount of time that should be spent on the assignments. No late homework will be accepted without proper documentation! The homework will require working with a software that many students are unfamiliar with. This means that it is a good idea to start the homework well in advance to get help with any problems you may have. While I am happy to help, getting help a couple minutes before the assignment is due is NOT acceptable!!! (The lowest homework grade will be dropped.)

Exams (51%): There will be three equally weighted exams throughout the semester. Only missed exams with University approved excuses may be made-up. The student must inform the instructor prior to the absence if possible or immediately following to make arrangements. Exams must be made up within one week of the original date. *Tentative* exam dates are February 12, March 07, and April 23.

Final Exam (19%): A comprehensive final exam will be given on Thursday May, 9 at 11:00am. The exam will only consist of an in-class portion and study materials will be provided. (The final exam may also replace your lowest test grade if doing so benefits your final grade.)

Course Aims

Course Objectives: A student completing this course successfully is expected to

- Identify the advantages and disadvantages of various statistical methods.

- Identify strategies for selecting the appropriate statistical procedure.

- Have the ability to examine the suitability of a statistical model

- Learn analytical techniques for interpreting results from various statistical procedures.

- Use a statistical package to obtain desired results and interpret the output.

Student Learning Outcomes: Student learning should include but not be restricted to the following outcomes

- By the end of the course, students should have a working knowledge of R with respect to various aspects of statistics.

- By the end of the course, students should be able to apply the various techniques to data sets using R.

- By the end of the course, students should be able to differentiate between settings for the various statistical techniques.

- By the end of the course, students should be able to evaluate case studies in an objective manner.

- By the end of the course, students should be able to construct experiments in their own field of study and analyze the results therein using techniques presented in this course.

Closing Remarks

Important Dates: There will be no classes on January 21 (MLK Day), Monday March 11 - 15 (Spring Break), Friday April 19 (Student Holiday). The last day of classes is Wednesday May 1. The last day to drop for regular spring classes is March 27.

Students with Disabilities: Coastal Carolina University is committed to equitable access and inclusion of individuals with disabilities in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. Individuals seeking reasonable accommodations should contact Accessibility & Disability Services (843-349-2503 or https://www.coastal.edu/disabilityservices/).

Attendance Policy: Attendance will be taken at every class meeting. Please see the CCU attendance policy in the University Catalog. According to the policy, missing over 25% of classes may result in a grade of F. I am excited for you to be in the class and want you to be there regularly!

Expectations: I believe that expectations should be made clear in advance. They should be fair while holding the student to high standards. This class is not my life, but I strive to make it clear, fair, organized, and put in adequate time to help you succeed. I respect my students as individuals and have the same exceptions in return. I understand this class is not your life, but you should treat your work and learning in this class with respect and appropriate effort. I hope we even have fun in this process! Please let me know as soon as you have trouble or questions. I am here for you!

The instructor reserves the right to make changes to this syllabus during the semester. Changes will be announced in class.