***MID-TERM PROJECT***

***STA 251***

You will need to choose a topic for a regression study. You will need to measure or collect your data. You cannot simply look it up. You will need to have a valid reason for choosing your topic and explain the relationship that you expect to find between the variables.

It will need to be approved by me before you begin. Part of doing good statistics is coming up with the ideas. I will let you know if it is an A, B, C, D, or E idea. An A idea could receive the full 100 points, a B idea can only receive a max of 85, 75 points max for a C idea, and 65 points max for a D idea. Deductions for errors will be made from the max grade. The longer you wait until you communicate your idea(s) with me, the harder it will be to get a high letter grade.

Determine how to properly prepare your data collection. Collect your data. You should take several photos and at least one short video of the data collection.

Using your data, you need to make an Excel graph(s). Label it (them) properly. Display the formula(s) which best fits your data, the determination, and the correlation.

Write up a report in Word which includes all of the required information, write-up, photos, graphs, explanations, etc. Organization, creativity, and presentation will figure into the grade.

You need to record a 1 – 2 minute video for this project. Your video needs to include you explaining your data collection and analysis. I will need to see your face at some point in the video. You should do these parts without any assistance from anyone else or without reading from a “script”. (\*SUBMISSIONS WITHOUT A VIDEO COMPONENT WILL RECEIVE A ZERO. This is a required part of this assignment.\*)

During the week before Spring Break, you will need to make an appointment with me on Zoom to present your project. You should then be prepared to answer any questions about the process you used or the analysis of the results. Your Project will be due to me by that time.