Course Information
Semester: 2020 Fall
Number: CS 256
Title: Data Visualization
Meeting Location: Online (Canvas)
Meeting Date/Time: There are no required meeting dates or times.
Credit Hours (units): 3
Prerequisites: None

Course Materials
Required Text: The Visual Display of Quantitative Information 2nd ed. by Edward R. Tufte

Time Required (units)
The expectation is that for every unit of a class, it will require 3 hours of the student's time for that material. You circumstances may differ, depending on your need.
Class units: 3
Expected time commitment per week: 9 hours / week

Course Description: Access and analyze data and produce information visualizations to discover patterns. Fundamental skills and concepts for Data Science, applicable for scientists, journalists, business people, and database programmers. Requires programming in a language of student's choice.

Major Student Learning Outcomes
Upon completion of this course, a student will be able to:
Select, inspect and import data from common file formats.
Determine suitable axes and ranges to display a given dataset.
Select the classes of visualization most appropriate for a given dataset.
Produce information visualizations suitable for decision-making or publication.
Analyze and fine-tune elements of an information graphic to enhance readability.

Instructor Info
Name: Dr. Daniel O'Leary
Website: https://sites.google.com/mail.ccsf.edu/oleary/
Email: email through Canvas preferred. Alternatively, doleary@ccsf.edu.
Office Hours Location: ConferZoom
Office Hours Date/Time: Monday/Thursday 1 PM - 2 PM

Add/Waitlist Policy
If the class is full, students are given the option to be added to the class waitlist through the CCSF registration process. Students will be added to the class in the order in which they appear on the waitlist as seats open up in the classroom. Students will be added to the class up to one week after the beginning of class. More information about waitlists and CCSF registration can be found on the school's website. https://www.ccsf.edu/admissions-recordsregistration/waitlist-information

Grading Scale
Midterm and final grades will be assigned on the following percentage scale:

A: 90% to 100%
B: 80% to 89%
C: 70% to 79%
D: 60% to 69%

F: 0% to 69%

Students who do not take the final exam will be assigned a grade of "FW". An "FW" is an "F" grade that also indicates that the student did not complete the course.

Grading
Your final score will be made up of the following components:
20% - Discussions
30% - Homework
20% - Midterm
30% - Final Examination

Late Policy
Discussions: Posts are due on Wednesday. Replies are due on Sunday. Late submission will receive a 0, as these discussion require timely interaction between students.
Homework: Homework are due on Sundays. Submissions will be accepted up until Wednesdays (up to 3 days late) without penalty. Solutions are posted after 3 days. Submissions after the 3 day grace period will not be accepted, as the homework solutions will have been posted.
Midterm and Final: The midterm and final are available for one week, to be completed before the due date at the time of your choosing. Late submissions cannot be accepted and will receive a 0, as these due dates are dictated by the dates when faculty must submit midterm and final grades.

Attendance Policy
Students must demonstrate timely and consistent participation. We will meet this requirement through the submission of discussions and homework. If you miss a full week of submissions, you may be dropped. If you must miss a week or more of material, contact the instructor.

Special accommodations
Students with disabilities who need academic accommodations should request them from the Disabled Students Programs and Services (DSPS) located in the Rosenberg Library, Room 323 on the Ocean Campus. Telephone: 415-452-5481 (V) 415-452-5451 (TDD).

Cheating
Cheating of any kind will not be tolerated. It will result in a grade of 0 on the assignment or test in question and can be cause for a failed grade and disciplinary action, including suspension or expulsion. Cheating on homework means copying code or answers from someone else. Getting help from others is not cheating as long as you're not copying their work or allowing them to copy yours. On the exams, any collaboration or copying constitutes cheating.

Software and Computer Access
This class requires access to a computer and an internet connection that can accommodate streaming video.