**Everyday Data**  
21:198:105 (3 credits)

**COURSE DESCRIPTION:**
Every day we share data about ourselves online using social media platforms, and in real life through shopping interactions and surveys. The data that we share creates a narrative of our past, present, and future. Through this course, students understand how our data is being collected, analyzed, and visualized. Students learn the basic principles of data visualization in Python and will be immersed in standard data science practices to learn exploratory data analysis and to effectively communicate findings and solutions.

**PREREQUISITE(S):**
Students must have completed Pre-Calculus or are enrolled in Pre-Calculus at the same time as taking Everyday Data. This course is for students who have an interest in data science and data visualization and want to learn how to code, but have *no experience or limited experience* in any of these areas. Students are NOT required to have taken coding or statistics in college.

**LEARNING OBJECTIVES:**
By the end of this course, students will demonstrate their computing and analytical abilities in the following ways:

1. Python fundamentals for Data Visualization: Libraries, Data Types, Functions, and Plots
2. Basic Statistics: Descriptive and Inferential Statistics
3. Data Science Tools and Data sets
4. Communication and presentation skills with a focus on compelling data narratives and visualizations

**TEXTBOOK:**
All course materials will include online resources.

**DEPARTMENT WEBSITE:** [http://www.ncas.rutgers.edu/math](http://www.ncas.rutgers.edu/math)

*Please note this is a tentative syllabus and changes may be made to it prior to the class.*

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