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):
There are no prerequisites for Everyday Data. There is a 1 credit co-requisite: 21:090:170 Introduction to Data Science Professions. Everyday Data and Introduction to Data Science Professions are to be taken together during the same semester and are open to all majors and all students, including first-year students. Everyday Data is for students who have an interest 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

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

Department of Mathematics and Computer Science Smith Hall 216, Warren Street, Newark, New Jersey 07102 Phone: (973) 353-1004 Fax: (973) 353-5270