

**VIRTUAL OPEN HOUSE**  
Wednesday, August 18, 2021, 4-5 pm

**DATA SCIENCE  
MINOR & UNDERGRADUATE CERTIFICATE**  
MEET FACULTY AND ADVISORS

**ZOOM LINK - Use Rutgers NetID**

The **CERTIFICATE** and the **MINOR** in Data Science, housed in Rutgers – New Brunswick (RU-NB) School of Arts and Sciences (SAS), is a partnership between RU-NB SAS and the RU-NB School of Communication and Information (SC&I).

**OPEN to ALL RU-NB students in ANY field of study/school!**

**PROGRAM PREREQUISITES:**

- SOME** math knowledge, intermediate algebra.
- NO** programming experience.
- INTEREST** in turning data into knowledge!

**LEARNING OUTCOMES:**

1. Data formats.
2. Datasets, database design, and querying.
3. Analyzing datasets, data analysis tools.
4. Visualization, communication, and adaptation.
5. Conceptual underpinnings of analysis methods (the why behind the what).
6. Transfer to novel contexts.
7. Data-driven reasoning.
8. Societal context.

**\*WIDE VARIETY of COURSES<sup>1</sup>:**

include, but not limited to, these areas:  
Communication, Computer Science, Economics, Genetics, Geography, Information Technology, Mathematics, Physics, Political Science, Psychology, Public Health, Statistics.

<sup>1</sup> Courses require pre-approval.

**#TRACKS:**

1. Programming intensive.
2. Quantitative, limited programming.
3. Economics.
4. Human-centered aspects.

**PROGRAM REQUIREMENTS:**

**UNDERGRADUATE CERTIFICATE**

- i. Data 101/data literacy
  - ii. Statistical inference
  - iii. Data management
  - iv. Domain\* course
  - iv+. mini-capstone
- \* Choose field of study/interest

**DATA SCIENCE MINOR**

- i. Data 101/data literacy
  - ii. Statistical inference
  - iii. Data management
  - iv. Domain\* course
  - iv+. mini-capstone
  - v. Track# course 1
  - vi. Track# course 2
- \*Choose field of study/interest  
#Choose one of the four tracks