



# UC BERKELEY

## DATA SCIENCE EDUCATION

[data.berkeley.edu/dsep](https://data.berkeley.edu/dsep)

Since it was envisioned in 2014, Berkeley's Data Science Education Program has grown to touch thousands of students a year.

Offerings include the data science major, launched in 2018, and minor, created in 2019, along with courses designed for students from throughout campus, such as Foundations of Data Science (Data 8).

### OPPORTUNITY

Meeting the demands of a world where data, machine learning, AI, and computing inform policy and practice in virtually every arena.

### INCLUSION

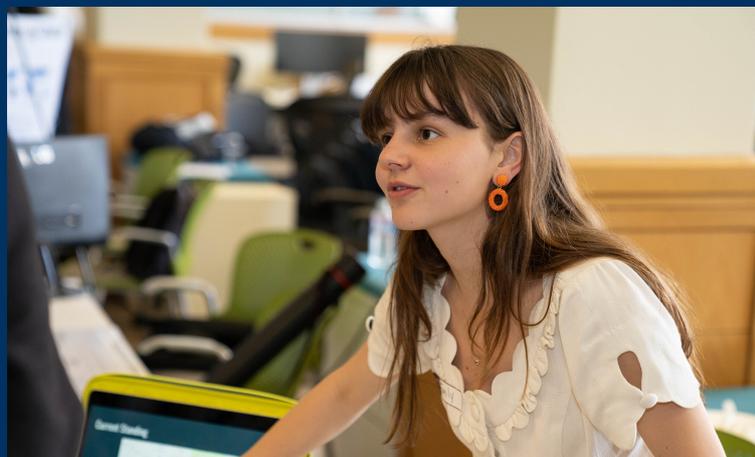
Bringing together faculty and students from computing, statistics, the humanities, and social and natural sciences; welcoming participants from all backgrounds.

### TRANSFORMATION

Creating a vibrant and collaborative environment to propel discovery, education, and societal impact in this dynamic new interdisciplinary field.

### IMPACT

Addressing the human and social implications of data science and catalyzing progress on critical societal issues, from climate change to responsible AI.



**Empowering all students to engage as leaders, creators, and change agents in a data-rich world.**

**Berkeley** Division of Computing, Data Science, and Society



Data Science  
Majors

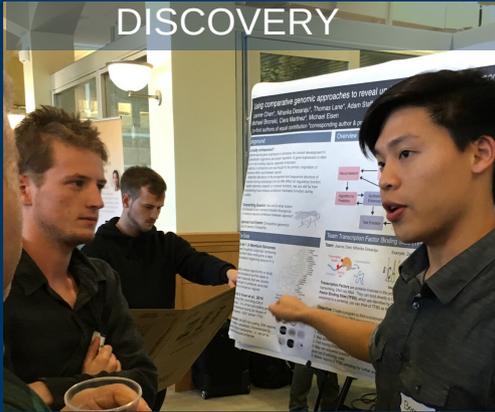


Are Multiple  
Majors



Domain  
Emphases

Data science majors select an area of specialization, or **domain emphasis**, from diverse options including cognition, biology, business & industrial analytics, data arts & humanities, and social policy & law.



Hands-on, team-based experience with cutting-edge research and education initiatives.



Community, mentoring, and research opportunities for under represented and nontraditional students.



Opportunities to play key roles in curriculum design, analysis, peer advising, and outreach.

## DATA SCIENCE CURRICULUM

**DATA 8:** Foundations of Data Science (1,300 students /semester)

**DATA 100:** Principles and Techniques of Data Science (900 students/semester)

**DATA 102:** Data, Inference, and Decisions

### CONNECTORS

Data 8 concepts applied across disciplines in courses such as Coastal Flooding, Applications in Physics, and Children in the Developing World. (500 students/semester)

### MODULES

Short data science explorations in existing courses including: Neighborhood Mapping, Implicit Bias & Social Outcomes, Sumerian Text Analysis, Macroeconomics. (700 students/semester)

### HUMAN CONTEXTS AND ETHICS (DATA 104)

Courses that investigate the human and social structures and practices that shape data science. (500 students/semester)



Female students  
in Data 8