Data Science Undergraduate Studies

Data Science Undergraduate Studies offers a diverse range of opportunities for undergraduates interested in exploring the fast-growing field of data science.

The data science major (https://data.berkeley.edu/academics/ undergraduate-programs/data-science-major/) incorporates technical foundations and the study of human contexts and ethics (https:// data.berkeley.edu/degrees/human-contexts-and-ethics/), along with more than two dozen domain emphases (https://data.berkeley.edu/degrees/ domain-emphasis/), or areas of application. The data science minor (https://data.berkeley.edu/academics/undergraduate-programs/data-science-minor/) features a flexible design to serve students from a range of majors.

Undergraduates also can explore related topics through the departments of Electrical Engineering and Computer Sciences (https:// eecs.berkeley.edu/academics/undergraduate/) and Statistics (https:// statistics.berkeley.edu/programs/), as well as through data science offerings such as Modules (https://data.berkeley.edu/education/ modules/), Discovery (https://data.berkeley.edu/research/discovery-program/about-discovery/), and Connectors (https://data.berkeley.edu/ education/connectors/).

Data 8: Foundations of Data Science (https://data.berkeley.edu/ education/courses/data-8/) provides an introduction to students from any major. It is designed specifically for students who have not previously taken statistics or computer science courses.

Key Features

- Depth: Our program draws on the University's world leading scholars in computer science, statistics, and a range of other disciplines.

- Integration: We offer data science curricula in the context of courses spanning the humanities and social and natural sciences, mirroring the cross-cutting nature of data science.

- Impact: Students and researchers tackle real-world problems and grapple with the societal, human, and political ramifications of data science.

- Engagement: Hundreds of students every semester engage as full partners in curriculum design, research, advising, and communications.

- Leadership: We provide resources on our curriculum and educational approach to educational institutions around the world through workshops, open source materials, and other collaborations.

Undergraduate Programs

- Data Science Major (http://guide.berkeley.edu/archive/2022-23/ undergraduate/degree-programs/data-science/) (offered through the College of Letters and Science)

- Data Science Minor (http://guide.berkeley.edu/archive/2022-23/ undergraduate/degree-programs/data-science/) (offered through the Division of Computing, Data Science, and Society)