

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/data-science-undergraduate-studies/data-science-major/>) incorporates technical foundations and the study of human contexts and ethics (<https://data.berkeley.edu/academics/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/data-science-undergraduate-studies/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/>), 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** (<https://guide.berkeley.edu/archive/2024-25/undergraduate/degree-programs/data-science/>)
- **Data Science Minor** (<https://guide.berkeley.edu/archive/2024-25/undergraduate/degree-programs/data-science/>)