UC Berkeley's Master of Information and Data Science — Delivered Online

PROGRAM OVERVIEW

A Master of Information and Data Science

Designed for data science professionals, the UC Berkeley School of Information's Master of Information and Data Science (MIDS) prepares students to derive insights from real-world data sets. Students use the latest tools and analytical methods to interpret and communicate their findings in ways that influence decision making, changing both minds and behaviors in a variety of settings.

Delivered using state-of-the-art online technology, this program is designed from the ground up by I School faculty and brings the unique UC Berkeley student experience to professionals everywhere.

MIDS Curriculum

Through a hands-on, project-based approach to learning, the MIDS program features a rigorous, multidisciplinary curriculum that draws on insights from social sciences, computer science, statistics, management and law.

The program's challenging, relevant curriculum focuses on problem solving and prepares students to creatively apply methods of data collection, analysis and presentation to address and solve problems in areas of human interest, government and business.

The MIDS curriculum focuses on the following key areas:

- Research design
- Storage and retrieval
- Cleansing
- Mining and exploring
- Statistical analysis
- Ethics and privacy
- Data visualization
- Communicating results

STUDENT EXPERIENCE

Seamlessly Bringing UC Berkeley's On-Campus Student Experience Online

- **A robust online learning experience.** Delivered using a web-based platform and featuring self-paced, online coursework and live, collaborative seminars driven by problem solving and discussions, the datascience@berkeley online classroom creates a rich learning experience with no back row.

- **An on-campus immersion.** Crafted to deliver additional learning, networking and community-building opportunities, this three- to five-day program at UC Berkeley offers students the chance to meet faculty and classmates, attend lectures and workshops, and participate in networking events with industry leaders.

- **Face-to-face interaction.** The online platform facilitates collaboration and leads to real connections between students, faculty and peers.

- **Dedicated student support.** Fully integrated into the I School community, students receive academic, technical and career services support.

- **Connections in the San Francisco Bay area.** San Francisco is the epicenter of the data revolution. UC Berkeley students build valuable connections through an extensive global network.

Berkeley SCHOOL OF INFORMATION

datascience@berkeley

CURRICULUM OVERVIEW

The MIDS program is 27 units, which can be completed over three to five terms. As part of the curriculum, students also attend an immersion experience on the UC Berkeley campus.

Foundation Courses (15 units)

Research Design and Applications for Data and Analysis
Exploring and Analyzing Data
Storing and Retrieving Data
Applied Machine Learning
Data Visualization and Communication

Advanced Courses (9 units) – choose 3

Experiments and Causal Inference
Legal, Policy, and Ethical Considerations for Data Scientists
Scaling Up! Really Big Data
Applied Regression and Time Series Analysis
Machine Learning at Scale

Capstone Course (3 units)

LEARNING APPLICATION

Completing the MIDS degree program while continuing one's career is value added for your employee and your company. Students can immediately apply the hands-on course materials directly to their professional work every day. This powerful benefit allows your employees to:

- Develop a perspective that is embedded right from the start on what your company can do with data science.

- Generate the right questions to get answers you can use.

- Increase the speed and efficiency of the products and outcomes of data science that are used at your company.

- Bridge the divide between qualitative and quantitative data, and apply this learning to create holistic strategies.

- Understand how to make data science work for strategic decision making.

According to an Oracle report, businesses today are accumulating new data at a rate that exceeds their capacity to extract value from it.
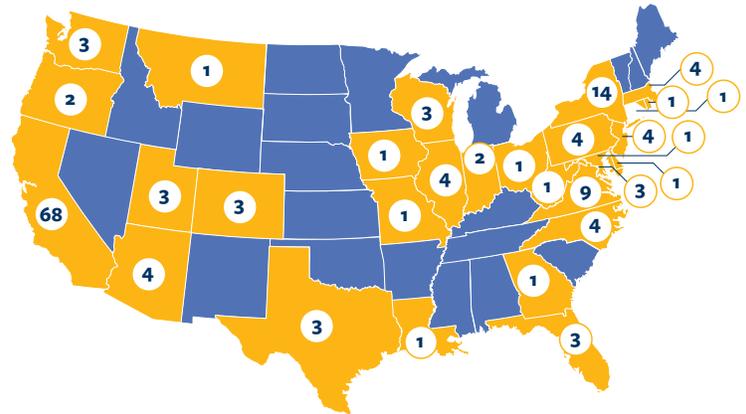
CLASS PROFILE

Age Range:
23–56

Average Age:
33

Geographic Distribution:

Selected Employers

Apple Inc.	Google
Bank of America	L'Oreal
Bloomberg	LinkedIn
Capital One	Morgan Stanley
Charles Schwab Corporation	Nielsen
Cisco Systems	PayPal
eBay Inc.	Salesforce.com
Facebook	United States Air Force
Goldman Sachs	Verizon Wireless

Employment Positions

Architect	Data Analyst
Business Data Analyst	Identity Data Analyst
Business Intelligence Analyst	Internet/Data Security Consultant
Chief Technology Officer	Quantitative Analyst
Contract Technical Writer	Systems Engineer

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