

Berkeley Analytics

JOURNEY THROUGH THE WORLD OF ANALYTICS

Workshop for **Community College Faculty**
Thurs. August 8 to Sat. August 10, 2024

bit.ly/Analytics-CommunityCollegeWorkshop-2024

Why Analytics?



CAREER OPPORTUNITIES

Analytics professionals design and innovate for a more sustainable and efficient world. Ranked as one of the most lucrative career paths, demand for analytics majors is set to increase by 32% in this decade, with top companies like Google, Apple, and Amazon relying on Analytics & IEOB students to drive logistics, pricing optimization, AI innovation, and data-driven decision-making.

INTERDISCIPLINARY CURRICULUM

Our curriculum bridges business and engineering, encompassing AI, optimization, machine learning, data science, economics, and more. Students graduate prepared to tackle complex problems and lead data-driven decision-making across diverse sectors.



Organized by Berkeley's IEOR Department, this workshop will provide participants with cutting-edge pedagogical tools to teach data science, machine learning, and AI methods, essential for optimizing complex systems and making data-driven decisions.



Berkeley IEOR students explain how IEOR improves the world and leads to exciting careers.

PHOTOS FROM LAST YEAR'S WORKSHOP:



WHAT YOU WILL LEARN

Full Workshop Agenda:

bit.ly/AnalyticsWorkshop-Agenda

Machine Learning and Optimization - The Basics

We'll explore the basics of data analytics, and you'll gain insights into AI, statistical, and machine learning models, which are essential tools for modeling complex datasets and making informed decisions.

Simulation Experiments

Simulation allows you to build models and run experiments on a computer to solve complex problems efficiently without real-world testing.

Real-World Applications

Teach your students to apply data analytics and AI to real-world scenarios like ridesharing and other business operations.

This three-day workshop includes breakfast, a group networking dinner with fellow community college and Berkeley faculty, and up to \$500 travel reimbursement.

PROGRAMS

List of required courses for transfer students to be eligible for admission to Berkeley Analytics or Berkeley IEOR:

bit.ly/BerkeleyIEORTransfer

B.S. Industrial Engineering & Operations

Research: Designed to prepare students for technical careers in engineering, business consulting, management, entrepreneurship and more.

B.A. Analytics: For students in Letters and Science. Provides quantitative, model building and problem-solving skills, plus added flexibility to learn more about a particular field of interest in which you can apply your skills.

ieor.berkeley.edu

[instagram.com/ucberkeleyieor](https://www.instagram.com/ucberkeleyieor)

[linkedin.com/company/berkeley-ieor](https://www.linkedin.com/company/berkeley-ieor)

B.S. IEOR + B.S. Business: One program, two degrees. The Management, Entrepreneurship, and Technology (M.E.T.) program offers technical IEOR coursework alongside opportunities to develop entrepreneurial and leadership skills at Haas School of Business.

5 year B.S./M.S. IEOR: Five-year combined Bachelor's-Master's program for current IEOR and Operations Research and Management Science (ORMS) undergraduates to broaden their educational experiences at Berkeley.

Berkeley

Industrial Engineering
& Operations Research



Jelo Francisco,
BS IEOR '24

"Berkeley IEOR has rounded out my engineering education through engaging courses, a supportive community, and professional growth opportunities."

As a transfer, my biggest fear was falling behind and being isolated; I never would have imagined that the department could feel so much like a second home."

Learn *Cal*iber

The shared rides pricing and matching game developed by the IEOR Department at Berkeley.

Berkeley College of Engineering