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?

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.

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 & IEOR students to drive logistics, pricing optimization, AI innovation, and data-driven decision-making.

Why Analytics?
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.

PHOTOS FROM LAST YEAR’S WORKSHOP:

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

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

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

Jelo Francisco,
BS IEOR ‘24

What You Will Learn

**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.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.

**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
linkedin.com/company/berkeley-ieor

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.