



Photo credit: Bart Nagel

HOW TO USE THIS MAP

Use this map to help plan and guide your experience at UC Berkeley, including academic, co-curricular, and discovery opportunities. Everyone's Berkeley experience is different and activities in this map are suggestions. Always consult with your advisors whenever possible for new opportunities and updates.

Visit ue.berkeley.edu/majormaps for the latest version of this major map.

CONNECT WITH US

Cal Day

Come to UC Berkeley's annual **Open House** in April for information sessions, campus tours, special talks, and more.

Golden Bear Orientation

Join your peers in the campus-wide UC Berkeley **orientation** program for all new students.

Events

Attend department events with students, faculty, and staff. Visit ieor.berkeley.edu for news and updates.

ADVISING

Visit Engineering Student Services in 230 Bechtel for advising on academic difficulty, change of major/double majors/simultaneous degrees, withdrawal/readmission, degree completion, education abroad, academic progress, and petitions and exceptions. See engineering.berkeley.edu/advising for more information.

For department-specific advising, contact the IEOR undergraduate advisor at ieor-student-services@berkeley.edu.

INDUSTRIAL ENGINEERING AND OPERATIONS RESEARCH

Bachelor of Science

Berkeley
UNIVERSITY OF CALIFORNIA

INTRODUCTION TO THE MAJOR

Industrial engineers find the most effective and efficient way to use basic factors of production—people, machines, materials, information, and energy—to make a product or provide a service. In **Industrial Engineering and Operations Research (IEOR)**, we invent, analyze and teach tools and approaches for design, analysis, risk management, and decision-making in complex real-world systems like supply chains, energy systems, healthcare systems, and financial systems.

The department offers a **major** accredited by the Engineering Accreditation Commission of ABET. A **minor** in IEOR is available, as well as an **Operations Research and Management Science major** in the College of Letters & Science.



Photo credit: IEOR

“ *This world is full of challenges, and with an IEOR education I can tackle many—if not all—of them.* ”

– Jenny Cortez, IEOR Class of 2018

THE IEOR CURRICULUM

The core of the IEOR program includes basic science, mathematics including probability and statistics, engineering optimization, and stochastic models. This forms the methodological foundation for upper division IEOR electives involving the analysis and design of production and service systems, information systems, and human work systems and organization, among others.

AMPLIFY YOUR MAJOR

- Join an **Engineering student group** such as the **Institute of Industrial Systems Engineers** or **Alpha Pi Mu**.
- Take a Challenge Lab course such as IEOR 185.
- Enrich your studies with the **Sutardja Certificate in Entrepreneurship and Technology**.
- Build your skills with electives such as IEOR 142: Introduction to Machine Learning and Data Analytics or IEOR 150: Production Systems Analysis.

Berkeley

Industrial Engineering and Operations Research

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DESIGN YOUR JOURNEY

