INTRODUCTION TO THE MAJOR

The Operations Research and Management Science (ORMS) major provides a solid foundation in the quantitative, model building, and problem-solving skills of operations research and management science. The major is very math intensive and is appropriate for students who enjoy and are good at mathematics, computers, and solving practical, multidisciplinary problems.

The ORMS major is designed for students in the College of Letters & Science and is administered by the Department of Industrial Engineering and Operations Research (IEOR) in the College of Engineering. The department also offers a major and minor in IEOR, as well as a combined Bachelor’s-Master’s program.

ADMISSION TO THE MAJOR

To be considered for admission to the ORMS major, students should have a minimum 3.2 overall GPA in the prerequisite courses. The major is impacted and applications are submitted by invitation only. Visit ieor.berkeley.edu/undergraduate-resources/orms for more information.

We recommend students apply during the semester that they are completing their final prerequisite courses or prior to the accumulation of 80 units (not including high school units). For most students, this is typically at the end of their sophomore year. For transfer students, you must apply at the end of your first semester at UC Berkeley.

AMPLIFY YOUR MAJOR

- Get involved in a student organization such as the Engineering and Project Management Society and Institute of Industrial Systems Engineers (IISE).
- Take a Challenge Lab course such as IEOR 185.
- Enrich your studies with the Sutardja Certificate in Entrepreneurship and Technology.
- Participate in the ORMS honors program by completing an original research project or graduate-level coursework in ORMS.
**OPERATIONS RESEARCH AND MANAGEMENT SCIENCE**
Bachelor of Arts

**FIRST YEAR**
- Meet with your major and college advisor to discuss your academic plans.
- Review major and college requirements.
- Talk to the ORMS advisor about department programs and research opportunities.
- Explore your major through projects, internships, and clubs.
- Engage in undergraduate research or service learning.
- Attend career fairs and workshops to learn about job opportunities.

**SECOND YEAR**
- Complete lower division prerequisites and apply to the major.
- Plan for a certificate, course thread, or summer minor.
- Review major guidelines for study abroad.
- Reflect on your education so far and continue to set goals for yourself.
- Meet with a Career Center counselor to discuss your career options and goals.
- Think about doing an internship and attend an internship fair.
- Learn about graduate and professional school options.

**THIRD YEAR**
- Focus on upper division requirements and electives such as machine learning (IEOR 142) or production systems analysis (IEOR 190).
- Review your degree progress with your major and college advisor.
- Take a Challenge Lab course (IEOR 195), Data X (IEOR 115) or another project-based class.
- Update your resume and LinkedIn profile.
- Discussed post-graduate options with advisors and professors.
- Attend career and graduate school fairs such as the STEM Career & Internship Fair.
- Learn about graduate and professional school options.

**FOURTH YEAR**
- Do a degree check to ensure you are on track to graduate.
- Complete any “bucket list” courses and remaining major, college, and campus requirements.
- If eligible, take part in the ORMS honors program.
- Consider applying for the IEOR-ORMS Masters Program.
- Hone your leadership skills with the Peter E. Haas Public Service Leaders program.
- Explore service opportunities after graduation, such as Peace Corps.
- Consider applying for a Fulbright or other exchange program.

**WHAT CAN I DO WITH MY MAJOR?**
The IEOR major prepares students for technical careers analyzing a broad array of systems-level decision problems concerned with economic efficiency, productivity, and quality. It provides a strong foundation for those headed for operations management positions or for those intending to go on to specialized graduate study in operations research, analytics, or business administration.

**Jobs and Employers**
- Analyst, Cornerstone Research
- Analyst, WI Harper Group
- Consultant, Applied Predictive Technologies
- Digital Risk Solution Associate, PwC
- Software Development Engineer, Amazon
- Software Engineer, Google
- Technology Analyst, Deloitte

**Graduate Programs**
- Business, Masters
- Computational Math., Masters
- Computer Science, Masters, PhD
- Economics, PhD
- Engineering Science, Masters
- Industrial Engineering, Masters, PhD
- Operations Research, Masters

**Examples gathered from the First Destination Survey of recent Berkeley graduates.**

### Design Your Journey

**THIRD YEAR**
- Experience life at another UC or college on a visitor and exchange program.
- Study and intern in Washington D.C. with UCDC or Cal in the Capital.
- Consider a Berkeley Global Internship in the United States or abroad.
- Attend a Career Center event or workshop.
- Meet employers at Employer Info Sessions and On-Campus Recruiting.
- Apply to jobs, graduate school, and other opportunities.

**FOURTH YEAR**
- Explore entrepreneurship through the Sutardja Center and Skydeck.
- Consider earning the Sutardja Certificate in Entrepreneurship and Technology.
- Teach your own Decal course.
- Undertake an optional honors thesis or independent study.
- Keep pursuing your interests through a fellowship or gap year after graduation.
- Apply to a fellowship or gap year after graduation.

For more information, visit the Berkeley Study Abroad website or browse job listings on the department website.