

# Berkeley ENGINEERS

Photo credit: Laura Vogt

### **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.

## **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 **me.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/students/advising-counseling** for more information.

For department-specific advising, visit the **ME Student Services Office** in 6193 Etcheverry Hall.

#### **Office hours:**

Monday-Wednesday 9am-12pm, 1-4pm Thursday 1-4pm Friday 9am-12pm, 1-4pm

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

# Berkeley

**Mechanical Engineering** 6193 Etcheverry Hall Berkeley, CA 94720-1740 **me.berkeley.edu** 

# MECHANICAL ENGINEERING

Bachelor of Science

# INTRODUCTION TO THE MAJOR

Mechanical engineers serve society by solving problems in transportation, energy, the environment, and human health. The mechanical engineering profession encompasses numerous technical areas, and as a mechanical engineer, you'll be finding solutions to the world's most pressing issues.

We offer a **major** in Mechanical Engineering as well as a **minor**. Our undergraduate program is accredited by the Engineering Accreditation Commission of ABET, and attracts the best and brightest students to study with top-tier faculty. We are fully invested in preparing our future engineers to meet today's challenges with creativity and innovation.

ME is full of uniquely amazing extracurricular and research opportunities...from contributing to groundbreaking research to building rockets or race cars on the weekends, the opportunities here are endless.

### THE ME CURRICULUM

The Mechanical Engineering major provides students with a broad education emphasizing an excellent foundation in scientific and engineering fundamentals. We believe in the importance of enriching our rigorous curriculum with research opportunities, support services and team activities. The capstone of the program is the senior design experience, which assists in developing a deep understanding of the process.





Photo credit: Matt Beardsley

- Rebecca Bennet, Class of 2021

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- AMPLIFY YOUR MAJOR
- Get involved with an Engineering student group such as Robobears, American Society of Mechanical Engineers or Pi Tau Sigma.
- Design and manufacture projects in the **Student Machine Shop**.
- Enrich your studies with the **Sutardja Certificate in Entrepreneurship and Technology**.
- Follow your major on **Instagram**, **Facebook**, and **Youtube**.

# MECHANICAL ENGINEERING

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	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
<b>Explore</b> your major	Meet with your <b>ESS advisor</b> to discuss your academic plans. Familiarize yourself with <b>major</b> and <b>college</b> <b>requirements</b> and the <b>ME Curriculum Flowchart</b> . Talk to a <b>ME advisor</b> about department programs and research opportunities. Enroll in <b>ENGIN 98: The Insider's Guide to</b> <b>Berkeley Engineering</b> .	Talk to <b>ESS peer advisors</b> about life in the major. Meet with your <b>ESS advisor</b> to discuss your academic progress and any challenges. Complete lower division prerequisites and start planning your upper division courses. Plan now if considering a <b>double major</b> , <b>simultaneous degree</b> , <b>minor</b> , or study abroad.	Focus on upper division requirements and electives. Continue meeting with your <b>ESS advisor</b> to review your academic progress. Submit paperwork for a double major, simultaneous degree, minor, or study abroad.	Meet with your <b>ESS advisor</b> to do a <b>check</b> and plan for your final year. Complete any "bucket list" courses a major, college, and campus requirem Complement your major with a <b>cert</b> <b>thread</b> , or <b>summer minor</b> .
Connect and build community	Join a First Friday Coffee Chat with faculty. Take advantage of <b>tutoring</b> and <b>workshops</b> for Engineering students at the <b>Center for Access to</b> <b>Engineering Excellence</b> . Discover student opportunities in the ESS <b>newsletter</b> . Find study space and resources in the <b>Kresge</b> <b>Engineering Library</b> .	Join an <b>Engineering</b> or <b>ME student group</b> , such as the <b>American Society of Mechanical Engineers</b> . Sign up for the ME email list and start attending <b>department events</b> . Get to know Engineering professors and graduate student instructors in office hours. Continue attending tutoring and workshops, and reading the weekly ESS newsletter.	<ul> <li>Give back by becoming an ESS peer advisor.</li> <li>Join the Berkeley Engineering group on LinkedIn.</li> <li>Explore student groups outside of Engineering, or deepen your involvement with an Engineering student group.</li> <li>Check out Formula SAE, CALSOL, Cal Super Mileage and Pi Tau Sigma, the Mechanical Engineering Honor Society.</li> </ul>	Join a professional association relate interests. Continue attending tutoring and wo reading the weekly ESS newsletter. Connect with <b>alumni groups</b> and le <b>network</b> as you prepare to graduate
<b>Discover</b> your passions	<ul> <li>Browse research taking place in Engineering centers, institutes, and labs.</li> <li>Visit the Office of Undergraduate Research and Scholarships.</li> <li>Discover new interests in a Freshman Seminar or student-run DeCal course.</li> <li>Broaden your perspective by attending Newton Series or View from the Top lectures.</li> </ul>	Consider pursuing a research opportunity for Engineering and ME students. Look through the ME Faculty's research interests. Apply to a REU research program. Check Berkeley Lab and Beehive for more research options. Design and manufacture engineering projects in the Student Machine Shop.	<ul> <li>Apply for a research opportunity if you haven't done so already.</li> <li>Check out design and maker opportunities at the Jacobs Institute.</li> <li>Explore entrepreneurship through the Sutardja Center and Skydeck.</li> <li>Consider earning the Sutardja Certificate in Entrepreneurship and Technology.</li> </ul>	Teach your own <b>DeCal course</b> . Consider being an instructor for <b>EN</b> Continue to pursue your interests th <b>fellowship</b> or gap year after graduat Choose your post-baccalaureate pla your intended mission and impact as
Engage locally and globally	Attend a build team <b>SAE</b> , <b>Battlebot</b> , and <b>Calsol</b> competition. Attend the <b>Calapalooza</b> student activities fair and get involved with a student organization. Explore <b>Engineering student organizations</b> . Find service opportunities through the <b>Public Service Center</b> .	Contribute to a community organization in an American Cultures Engaged Scholarship course such as ENGIN 157AC. Explore study, internship, and research abroad options with Berkeley Study Abroad. Consider a Berkeley Global Internship. Mentor local youth with Pioneers in Engineering or Berkeley Engineers and Mentors.	Learn how to be an ethical and inclusive global leader through the <b>LeaderShape Institute</b> . Experience life at another UC or college on a <b>visitor</b> <b>and exchange program</b> . Study and intern in Washington D.C. with <b>UCDC</b> or <b>Cal in the Capital</b> .	Serve as a student representative on committee. Hone your leadership skills with the Public Service Leaders program. Explore service opportunities after g such as Peace Corps, Teach for An Department of State.
<b>Reflect</b> and plan your future	Visit Berkeley Career Engagement and the Career Counseling Library. Check out the Berkeley Career Engagement Yearly Planner. Sign up for Handshake and CareerMail. Explore career resources on the Engineering and ME websites. Attend an ESS workshop to create a resume and LinkedIn page.	Discuss career options and goals with a <b>Career</b> <b>Educator</b> . Explore careers through <b>GLOBE Ambassadors</b> , winter externships, and informational interviews. Learn about graduate and professional school. Pursue an internship and attend an internship career fair.	Attend <b>career and graduate school fairs</b> such as the STEM Career & Internship Fair. Discuss graduate school options with advisors and professors. Make an <b>advising appointment</b> in ESS to explore a 5th year MS, MEng, or PhD. Sign up for an ESS <b>career workshop</b> , <b>networking</b> <b>dinner</b> , <b>speaker series</b> , or <b>career conference</b> .	Ask professors and graduate student recommendation letters. Utilize <b>job board tools</b> in your job s Go to <b>Employer Info Sessions</b> and <b>Recruiting</b> and attend the <b>job offer</b> <b>workshop</b> . Apply to jobs, graduate school, and o opportunities.

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### WHAT CAN I DO WITH **MY MAJOR?**

The Mechanical Engineering major prepares students for employment or advanced studies with four primary constituencies: industry, the national laboratories, state and federal agencies, and academia (graduate research programs).

### Jobs and Employers

Business Analyst, Amazon Engineer, Boeing Engineer, General Motors GIS Technician, Apex Systems Management Consulting Analyst, Accenture Mechanical Engineer, Lawrence Livermore National Labs Product Engineer, Lam Research Program Manager, Apple Manufacturing Engineer, ERG Aerospace Software Engineer, Cruise Tech. Product Support Engineer, Applied Materials Verification Engineer, AVS

### **Graduate Programs**

Aerospace Engineering, Masters Biomedical Engineering, Masters Computer Science, Masters Electrical Engineering, Masters, PhD Geometry, PhD Materials Engineering, Masters, PhD Mechanical Engineering, Masters, PhD Medicine, MD Public Policy Analysis, Masters Systems Engineering, Masters

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

Updated: 05.16.24