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.

– Rebecca Bennet, Class of 2021

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.

AMPLIFY YOUR MAJOR
- Get involved with an Engineering student group such as the American Society of Mechanical Engineers or Pi Tau Sigma.
- Design and manufacture your engineering projects in the Student Machine Shop.
- Enrich your studies with the Sutardja Certificate in Entrepreneurship and Technology.
### MECHANICAL ENGINEERING

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### Design Your Journey

#### First Year

- **Explore your major**
  - Meet with your ESS advisor to discuss your academic plans.
  - Familiarize yourself with major and college requirements and the ME Curriculum Flowchart.
  - Talk to a ME advisor about department programs and research opportunities.

- **Connect and build community**
  - Take advantage of tutoring and workshops for Engineering students at the Center for Access to Engineering Excellence.
  - Discover student opportunities in the ESS newsletter and new student podcast.
  - Find study space and resources in the Kreage Engineering Library.

- **Discover your passions**
  - Browse research taking place in Engineering centers, institutes, and labs.
  - Visit the Office of Undergraduate Research and Scholarships.
  - Discover new interests in a Freshman Seminar or student-run DeCal course.
  - Broaden your perspective by attending Newton Series or View from the Top Lectures.

- **Engage locally and globally**
  - Attend the Calapalooza student activities fair and get involved with a student organization.
  - Explore Engineering student organizations.
  - Find service opportunities through the Public Service Center.
  - Explore study, internship, and research abroad options with Berkeley Study Abroad.

- **Reflect and plan your future**
  - Visit the Career Center and Career Counseling Library.
  - Check out the Career Center Yearly Planner. Sign up for Handshake and CareerMail.
  - Explore career resources on the Engineering, ME, and Career Center websites.
  - Attend an ESS workshop to create a resume and LinkedIn page.

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#### Second Year

- **Explore your major**
  - Talk to ESS peer advisors about life in the major.
  - Meet with your ESS advisor to discuss your academic progress and any challenges.
  - Complete lower division prerequisites and start planning your upper division courses.
  - Plan now if considering a double major, simultaneous degree, minor, or study abroad.

- **Connect and build community**
  - Join an Engineering or ME student group, such as the American Society of Mechanical Engineers.
  - Sign up for the ME email list and start attending department events.
  - Get to know Engineering professors and graduate student instructors in office hours.
  - Continue attending tutoring and workshops, and reading the weekly ESS newsletter.

- **Discover your passions**
  - 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 BeBeehive for more research options.
  - Design and manufacture engineering projects in the Student Machine Shop.

- **Engage locally and globally**
  - Attend the Calapalooza student activities fair and get involved with a student organization.
  - Explore Engineering student organizations.
  - Find service opportunities through the Public Service Center.
  - Explore study, internship, and research abroad options with Berkeley Study Abroad.

- **Reflect and plan your future**
  - Meet with a Career Center counselor to discuss your career options and goals.
  - Explore careers through GLOBE Ambassadors, winter externships, and Informational Interviews.
  - Learn about graduate and professional school options.
  - Pursue an internship and attend an internship career fair.

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#### Third Year

- **Explore your major**
  - Focus on upper division requirements and electives.
  - Continue meeting with your ESS advisor to review your academic progress.
  - Submit paperwork for a double major, simultaneous degree, minor, or study abroad.

- **Connect and build community**
  - Give back by becoming an ESS peer advisor.
  - Join the Berkeley Engineering Group on LinkedIn.
  - Explore student groups outside of Engineering, or deepen your involvement with an Engineering student group.
  - Check out Formula SAE, CALSOL, Human Powered Vehicle, Cal Super Mileage and Pi Tau Sigma, the Mechanical Engineering Honor Society.

- **Discover your passions**
  - Apply for a research opportunity if you haven’t done so already.
  - Check out design and maker opportunities at the Jacobs Institute.
  - Explore entrepreneurship through the Sutardja Center and Skydeck.
  - Consider earning the Sutardja Certificate in Entrepreneurship and Technology.

- **Engage locally and globally**
  - Learn how to be an ethical and inclusive global leader through the LeaderShape Institute.
  - 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.

- **Reflect and plan your future**
  - Attend career and graduate school fairs such as the STEM Career & Internship Fair.
  - Discuss graduate school options with advisors and professors. Make an advising appointment in ESS to explore a 2nd year ME, MS, or PhD.
  - Sign up for an ESS career workshop, networking dinner, speaker series, or career conference.

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#### Fourth Year

- **Explore your major**
  - Meet with your ESS advisor to do an official degree check and plan for your final year.
  - Complete any “bucket list” courses remaining major, college, and campus requirements.
  - Complement your major with a certificate, course thread, or summer minor.

- **Connect and build community**
  - Join a professional association related to your interests.
  - Continue attending tutoring and workshops, and reading the weekly ESS newsletter.
  - Connect with alumni groups and leverage your network as you prepare to graduate.

- **Discover your passions**
  - Teach your own DeCal course.
  - Consider being an advisor for ENGIN 98.

- **Engage locally and globally**
  - Serve as a student representative on a college committee.
  - Hone your leadership skills with the Peter E. Haas Public Service Leaders program.
  - Explore service opportunities after graduation, such as Peace Corps, Teach for America, or U.S. Department of State.

- **Reflect and plan your future**
  - Attend career and graduate school fairs such as the STEM Career & Internship Fair.
  - Discuss graduate school options with advisors and professors. Make an advising appointment in ESS to explore a 2nd year ME, MS, or PhD.
  - Sign up for an ESS career workshop, networking dinner, speaker series, or career conference.

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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
- Geology, 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.