INTRODUCTION TO THE MAJOR

The Civil Engineering major offers opportunities for rigorous academic learning, fellowship, hands-on experience, and leadership. Classes are relatively small, so students get to know both the faculty and fellow students. The program provides students with a strong fundamental background in engineering science, design, and practice. Students learn to solve societal problems—in California, the United States, and the world—such as:

• Improving civil infrastructure
• Protecting resources
• Mitigating hazards
• Creating efficient and sustainable civil systems

The program is top-ranked nationally and is accredited by the Engineering Accreditation Commission of ABET.

AMPLIFY YOUR MAJOR

• Join one of the seven competitive CEE teams.
• Hone your leadership skills through ASCE, Chi Epsilon or CEE-JFC.
• Apply for research through CEE’s UROP program.
• Attend weekly company info sessions, hosted by ASCE.

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

CEE at Cal is amazing because it is such a small community in such a large university. You really get to know your classmates and professors.

— Amber Chau, CEE class of 2020

DESIGN YOUR STUDIES IN CEE

The undergraduate curriculum provides flexibility and exploration within the major. Students may choose courses that span the breadth of civil and environmental engineering, or students can focus their studies by choosing courses within specific areas: engineering and project management; environmental engineering; geosystems; structural engineering, mechanics and materials; or transportation engineering.
# Design Your Journey

## Bachelor of Science

### First Year
- **Explore your major**
  - Review the CEE 4-Year Plan and College of Engineering requirements.
  - Plan your lower division courses to avoid taking too many technicals at once.
  - Get info on classes and careers at the Departmental Advising Forum hosted by Chi Epsilon.
- **Connect and build community**
  - Explore CEE student life at events hosted by the student chapter of the American Society of Civil Engineers (ASCE).
  - Explore student organizations at Calapalooza and on CalLink.
  - Gain practical experience by joining a CEE competition team.
- **Discover your passions**
  - Visit the Office of Undergraduate Research and Scholarships to learn about research opportunities and resources on campus.
  - Learn how Engineering students can get involved in student research.
  - Explore new topics through DeCal courses.
- **Engage locally and globally**
  - Meet with your advisor to discuss studying abroad in your 4-year plan.
  - Explore volunteering opportunities on campus.
  - Learn about community service with the Public Service Center.

### Second Year
- **Explore your major**
  - Continue fulfilling lower division CEE foundational requirements.
  - Plan now if you are considering a minor or summer minor.
  - Consider applying to the department’s Undergraduate Research Opportunity Program.
- **Connect and build community**
  - Attend office hours to learn about professors’ work and how it’s applicable to the profession.
  - Seek out mentorship from upper division students in the major.
  - Attend field trips and networking events hosted by ASCE.
- **Discover your passions**
  - Explore research opportunities and how to earn credit for research.
  - Gain leadership experience through ASCE or another engineering student group.
- **Engage locally and globally**
  - Apply to study abroad through Berkeley Study Abroad.
  - Mentor young STEM students with Pioneers in Engineering and Berkeley Engineers and Mentors.
  - Consider the Alternative Breaks program to go on service-learning trips over school breaks.

### Third Year
- **Explore your major**
  - Continue working on upper division coursework.
  - Choose electives that will give you specialized skills in a specific area of CEE.
  - Check in with your CEE advisor on major requirements during office hours or at the Departmental Advising Forum.
- **Connect and build community**
  - Attend field trips, info sessions, and networking events hosted by CEE student groups.
  - Develop your professional skills by taking a leadership position in a CEE student group.
  - Mentor younger students through CEE student organizations.
- **Discover your passions**
  - Consider the Alternative Breaks program to go on service-learning trips over school breaks.
  - Submit your research to an undergraduate journal.
  - Learn a marketable software tool such as GIS or AutoCad.
- **Engage locally and globally**
  - Study for and take the GRE, LEED, or PE exams.
  - Consider a Berkeley Global Internship such as the Engineering Internship in Toronto.
  - Talk with faculty about career advice.

### Fourth Year
- **Explore your major**
  - Complete any remaining major requirements and electives.
  - Take a CEE Capstone Design class.
  - Check in with an ESS advisor to ensure you are on track to graduate.
  - Apply to graduate school, if interested.
- **Connect and build community**
  - Give back by becoming an Engineering peer advisor or tutor at the Student Learning Center.
  - Reconnect with any alumni who helped you succeed in previous years.
  - Mentor younger students at the Departmental Advising Forum hosted by Chi Epsilon.
- **Discover your passions**
  - Enroll in non-major courses on your bucket list.
  - Earn a certificate through the Sutardja Center for Entrepreneurship & Technology.
  - Jacobs Institute for Design and Innovation, or Arts + Design.
- **Engage locally and globally**
  - Apply for fellowships available to recent Berkeley graduates.
  - Explore gap year opportunities prior to embarking on your next academic or career adventure.

## What Can I Do

### Jobs and Employers
- **Associate Project Engineer**
- **Civil Analyst**
- **Computer Vision Engineer**
- **Software Engineer**
- **Research Engineer**
- **Project Engineer**
- **Tech Lead**
- **Product Manager**
- **Sales Engineer**

### Graduate Programs
- **Architecture**
- **Artificial Intelligence and Robotics**
- **Civil Engineering**
- **Environmental Engineering**
- **Mechanical Engineering**
- **Structural Engineering**
- **Systems Engineering**
- **Transportation Engineering**

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

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