

# Berkeley Engineering

Educating Leaders  
Creating Knowledge  
Serving Society



# HOW WE RANK

Berkeley Engineering is among the top engineering programs in the nation as ranked by *U.S. News & World Report*.

## UNDERGRADUATE ENGINEERING RANKED #2 (2022)

- 1st Civil engineering
- 1st Environmental engineering
- 2nd Electrical engineering
- 3rd Chemical engineering \*
- 3rd Computer engineering
- 3rd Materials engineering
- 4th Mechanical engineering
- 6th Bioengineering
- 7th Industrial engineering
- n/a Engineering science, Nuclear engineering \*\*

## GRADUATE ENGINEERING RANKED #3 (2023)

- 1st Civil engineering
- 1st Electrical engineering
- 2nd Environmental engineering
- 2nd Chemical engineering \*
- 2nd Computer engineering
- 2nd Industrial engineering
- 2nd Materials engineering
- 3rd Mechanical engineering
- 4th Nuclear engineering
- 4th Bioengineering

\* Offered through the College of Chemistry

\*\* *USN&WR* last ranked undergraduate engineering science/ engineering physics programs in 2016 and nuclear engineering programs in 2004.



## OUR ENGINEERING STUDENTS | 4041 undergraduates, 2790 graduates

- 32.1% Female students
- 14.6% URM students
- 12.8% International students
- 24% First-generation undergraduates
- 842 Pell Grant recipients
- 7.6% Freshman admit rate 2021-22
- 90+ # of engineering student organizations and competition teams that students can join to enrich their learning experience



Entering freshmen graduate within 6 years

## OUR FACULTY | 247 faculty



76 members

- 6 Turing Award recipients
- 53% Female new faculty hires in 2021
- 20% Underrepresented minority (URM) new faculty hires in 2021
- 97 Endowed chairs and distinguished faculty
- 1,600+ Inventions by Berkeley Engineering researchers

## OUR ALUMNI | 73,000+ alumni

- 117+ Countries
- 161 Members of the National Academy of Engineering

One-third of new graduates head to graduate school. Others find work in:

- Business 55%
- Industry 38%
- Government 3%
- Education 3%

\$110,000



Median starting salary of 2021 undergraduates joining the workforce

Graciélita Mendoza-Beginez, student speaker commencement, 2019 (Photo by Adam Lau)

# UNDERGRADUATE MAJORS & MINORS

[engineering.berkeley.edu/majors](https://engineering.berkeley.edu/majors)

## Aerospace Engineering \*Open to transfers in 2024

[aero.berkeley.edu](https://aero.berkeley.edu) | ✉ [aero@berkeley.edu](mailto:aero@berkeley.edu)

Major: aerospace engineering

Minor: aerospace engineering

## Bioengineering

[bioeng.berkeley.edu](https://bioeng.berkeley.edu) | ✉ [bioeng@berkeley.edu](mailto:bioeng@berkeley.edu)

Major: bioengineering

Minor: bioengineering

## Civil & Environmental Engineering

[ce.berkeley.edu](https://ce.berkeley.edu) | ✉ [aao@ce.berkeley.edu](mailto:aao@ce.berkeley.edu)

Major: civil engineering

Minors: environmental engineering; geoengineering; structural engineering

## Electrical Engineering & Computer Sciences

[eecs.berkeley.edu](https://eecs.berkeley.edu) | ✉ [prospective-ugradstudents@eecs.berkeley.edu](mailto:prospective-ugradstudents@eecs.berkeley.edu)

Major: electrical engineering & computer sciences

Minors: computer science; electrical engineering & computer sciences; electronic intelligent systems

## Engineering Science Program

[engineering-science.berkeley.edu](https://engineering-science.berkeley.edu) | ✉ [engineering-science@berkeley.edu](mailto:engineering-science@berkeley.edu)

Majors: energy engineering; engineering math & statistics;

engineering physics; environmental engineering science

Minor: energy engineering

## Industrial Engineering & Operations Research

[ieor.berkeley.edu](https://ieor.berkeley.edu) | ✉ [ieor-student-services@berkeley.edu](mailto:ieor-student-services@berkeley.edu)

Major: industrial engineering & operations research

Minor: industrial engineering & operations research

## Materials Science & Engineering

[mse.berkeley.edu](https://mse.berkeley.edu) | ✉ [mse@berkeley.edu](mailto:mse@berkeley.edu)

Major: materials science & engineering

Minor: materials science & engineering

## Mechanical Engineering

[me.berkeley.edu](https://me.berkeley.edu) | ✉ [rickyv72@berkeley.edu](mailto:rickyv72@berkeley.edu)

Major: mechanical engineering

Minor: mechanical engineering

## Nuclear Engineering

[nuc.berkeley.edu](https://nuc.berkeley.edu) | ✉ [kirstenw@berkeley.edu](mailto:kirstenw@berkeley.edu)

Major: nuclear engineering

Minor: nuclear engineering

## Joint Majors

[engineering.berkeley.edu/jointmajors](https://engineering.berkeley.edu/jointmajors)

- » bioengineering/materials science & engineering
- » EECS/materials science & engineering
- » EECS/nuclear engineering
- » materials science & engineering/mechanical engineering
- » materials science & engineering/nuclear engineering
- » mechanical engineering/nuclear engineering

## Management, Entrepreneurship, & Technology (M.E.T.)

[met.berkeley.edu](https://met.berkeley.edu) | ✉ [met@berkeley.edu](mailto:met@berkeley.edu)

Prospective freshmen may apply directly to this program.

- » Engineering undeclared + Business
- » Bioengineering + Business
- » Civil engineering + Business
- » Electrical engineering & computer sciences + Business
- » Industrial engineering & operations research + Business
- » Materials science & engineering + Business
- » Mechanical engineering + Business

## ADVISING & COUNSELING

[engineering.berkeley.edu/advising](http://engineering.berkeley.edu/advising)



Berkeley Engineering offers a range of advising options to help you thrive both academically and personally. We want to make your time here as successful and rewarding as possible.

Upon admission, every Berkeley Engineering student is assigned an academic adviser based on their major. Our Engineering Student Services advisers are available to help with everything related to your undergraduate education. They answer questions about degree and graduation requirements, clarify academic policies and procedures, assist with course selection, and help address challenges you may be facing in your studies. They can also suggest enrichment opportunities or make referrals to campus resources.

### We have advisers and counseling onsite at the Bechtel Engineering Center for:

- » Peer advising
- » Personal counseling
- » Career advising
- » Graduate school advising
- » Undergraduate research advising



## ACADEMIC SUPPORT

[engineering.berkeley.edu/caee](http://engineering.berkeley.edu/caee)



The Center for Access to Engineering Excellence (CAEE) provides free tutoring in most core engineering courses. Our tutors are upper-division engineering students who have been successful in the courses they tutor and are great at breaking down complex, technical information.

In addition to having a strong grasp of the concepts, our tutors can help students understand how and where this content will continue to assist them throughout their engineering curriculum. Tutors are available each semester.

The CAEE also provides workshops and events throughout the year that provide training and insight on:

- » Professional development
- » Career training
- » Leadership
- » Community building
- » Health & wellness

Meeting students where they are, whether it is outside, online or in-person. (Photos by Adam Lau)

# UNDERGRADUATE PROGRAMS

[engineering.berkeley.edu/programs](http://engineering.berkeley.edu/programs)

- » **Pre-Engineering Program (PREP)** gives incoming first-year students a competitive edge by jumpstarting their Berkeley Engineering experience through participation in the PREP Summer Institute.
- » **Transfer Pre-Engineering Program (T-PREP)** offers incoming transfer students an intensive 18-day immersive summer experience to gain a head start in making the transition from community college.
- » **Engineering Scholars as Engaged Scholars (ES<sup>2</sup>)** is a one-year program that provides incoming first-year or transfer students opportunities to combine engineering and innovation with their commitment to social justice and underserved communities.
- » **Transfer Success Ambassador Program** extends a tradition of peer support in the Berkeley Engineering transfer community with a team of ambassadors who meet with their fellow transfer students and collaborate on workshops, events and outreach efforts.
- » **Engineering Scholars Program** is available for PREP and PREP-eligible students in bioengineering, civil engineering, or mechanical engineering. The program provides support for core major engineering courses and it covers topics including professional development and how to get involved in research.
- » **Mentoring Programs** are one year long and help current undergraduates develop relationships with other students, alumni and faculty; create academic support networks; and leverage opportunities for professional development. There are also specialized programs for first-generation students as well as junior transfers.
- » **Grand Challenges Scholars Program** combines innovative curriculum and cutting-edge research experiences into a scholastic fusion that spans academic disciplines and includes entrepreneurial, global and service learning opportunities.



# MYTHS VS FACTS

“I won’t be able to talk to an adviser in person.”

Academic and peer advisers are available for appointments and drop-in advising Monday through Friday and are easily accessible.



“There are no undergraduate research opportunities.”

As a Tier I research institution, we have more undergraduate research opportunities than the average college campus.



“Classes are too big and you don’t get to know your instructors.”

71% of undergraduate classes have fewer than 30 students. There is an 18:1 student-to-faculty ratio.



“Engineering students don’t have time to study abroad.”

Our students are encouraged to study abroad and can find an international program that fits within their academic plans.

“It’s impossible to graduate in four years.”

81% of undergraduates get their engineering degrees in four years. (90% within in six years.)



“It’s easy to change majors in the College of Engineering.”

All majors require a minimum GPA, and some majors require completion of certain courses. Transfer students are not eligible to change majors.

## ONLINE RESOURCES

### Exams

Some requirements can be satisfied with Advanced Placement, International Baccalaureate, A-Level, and transfer credit. Advanced Placement, International Baccalaureate, or A-Level exams can satisfy no more than two of the required six courses for the Humanities/Social Sciences requirement. There is no limit to the number of exams that can be used to satisfy technical requirements. You can see if your exam fulfills a requirement: [engineering.berkeley.edu/exams](https://engineering.berkeley.edu/exams).

### Co-curricular learning

Much of what makes Berkeley Engineering unique is the abundance of ways our students can learn and grow. Each of the activities below offers unique opportunities to integrate material learned in the classroom with a chance to develop character and leadership skills. National research has shown that students who are involved outside the classroom have higher GPAs, are more satisfied with their college experience, develop valuable leadership and interpersonal skills, manage their time better and hone marketable skills sought by employers (e.g., teamwork, creativity, time management).

- » Student Organizations and Competition Teams  
[engineering.berkeley.edu/studentorgs](https://engineering.berkeley.edu/studentorgs)
- » Undergraduate Research  
[engineering.berkeley.edu/student-research](https://engineering.berkeley.edu/student-research)
- » Summer Industry Internships  
[career.berkeley.edu](https://career.berkeley.edu)

### Admissions

We are fully invested in preparing our future engineers to meet today’s challenges with creativity and innovation. There has never been a better time to be an engineer. Get ready to apply to be a Berkeley Engineer and get detailed information about Berkeley admissions. Learn about the college with prospective and admitted FAQs for first-year and junior transfer students: [engineering.berkeley.edu/admit](https://engineering.berkeley.edu/admit).

## CONTACTS

Engineering Student  
Services

[engineering.berkeley.edu/ess](http://engineering.berkeley.edu/ess)

UC Berkeley Office  
of Undergraduate  
Admissions

[admissions.berkeley.edu](http://admissions.berkeley.edu)

UC Berkeley  
Graduate Admissions

[grad.berkeley.edu/admissions](http://grad.berkeley.edu/admissions)

UC Berkeley  
Visitor Services

[visit.berkeley.edu](http://visit.berkeley.edu)

