INTRODUCTION TO THE MAJOR

The Nuclear Engineering major prepares students to propel innovations in nuclear science and technology, and beyond. Our program features a strong foundation in nuclear energy and radiation detection, as well as a broad set of in-depth elective topics such as medical imaging, fusion energy, radioactive waste management, medical physics, and nuclear materials. The undergraduate program is accredited by the Engineering Accreditation Commission of ABET.

In addition to the major, the department offers a minor in nuclear engineering that is open to all students who are not majoring in NE and who have completed the necessary prerequisites. Joint majors with computer science, materials science or chemical engineering are also available.

THE NE CURRICULUM

Students in the Nuclear Engineering major have the option to pursue a specific focus of study, choosing between four different subject areas:

- Medical Applications
- Fission Energy
- Fusion Energy
- Radioactive Waste Management.

AMILIFY YOUR MAJOR

- Get involved with a local nuclear start-up such as Deep Isolation or Kairos Power.
- Pursue a research opportunity at a National Laboratory.
- Explore your mission and impact as an Engineer through the LeaderShape Institute.
NUCLEAR ENGINEERING DESIGN YOUR JOURNEY

Bachelor of Science

Explore your major
- Meet with your ESS advisor to discuss your academic plans.
- Familiarize yourself with major and college requirements.
- Talk to the Nuclear Engineering advisor about department programs and research opportunities.
- ESS newsletter

Connect and build community
- Take advantage of tutoring and workshops for Engineering students from the Center for Access to Engineering Excellence.
- Find student opportunities in the ESS newsletter and new student podcast.
- Find study space and resources in the Kreage Engineering Library.
- Join an Engineering student group such as the American Nuclear Society Student Chapter to meet students and professionals that share your passion for nuclear technology.
- Start attending Nuclear Engineering department events.
- Get to know Engineering professors and graduate student instructors during their office hours.
- Berkeley Study Abroad

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.
- Consider pursuing a research opportunity for Nuclear Engineering students.
- Develop your technical abilities through projects with the Nuclear Engineering Design Collaborative.
- Apply to a REU research program. Check Berkeley Lab and UCSC for more research options.
- Check out design and maker opportunities at the Student Innovation Lab.
- Contribute to a community organization in an American Cultures Engaged Scholarship course such as ENGIN 157AC American Cultures Engaged Scholarship.
- Consider a Berkeley Global Internship such as the American Cultures Engaged Scholarship.
- Mentor local youth with Pioneers in Engineering or Berkeley Engineers and Mentors.
- Learn how to be an ethical and inclusive global leader through the LeaderShape Institute.
- Experience life at another UC or college on a Berkeley Global Internship.
- Serve as a student representative on a local Berkeley student group.
- Explore your intended mission and impact as an Engineer.

Engage locally and globally
- Attend the Calapaloosa 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.
- Meet with a Career Center counselor to discuss your career options and goals.
- Explore career opportunities through the GLOBE Ambassadors program, a winter externship, and informational interviews.
- Learn about graduate and professional school options.
- Attend career and graduate school fairs such as the STEM Career & Internship Fair.
- Meet with your Career Center counselor to discuss your career options and goals.
- Explore career opportunities through the GLOBE Ambassadors program, a winter externship, and informational interviews.
- Learn about graduate and professional school options.
- Attend an internship and attend an Internship career fair.
- Meet with your ESS advisor to do an official degree check and plan for your final year.
- Complete any “bucket list” courses and remaining major, college, and campus requirements.
- Complete your major with a certificate, course thread, or summer minor.

WHAT CAN I DO WITH MY MAJOR?

The Nuclear Engineering major prepares students for a lifetime of technical achievement and professional leadership in academia, government, the national laboratories, and industry. Students often choose to pursue a one-year master’s degree program after graduation, and students interested in scientific or academic research go on to complete the doctorate.

Jobs and Employers
- Engineering, Berkeley Applied Analytics Engineer, Space & Naval Warfare Systems
- Software Engineer, Cisco Systems
- Nuclear Engineer, Duke Energy Product Engineer, Lam Research Corporation
- Nuclear Engineer, Valleytronics

Graduate Programs
- Engineering, Masters Nuclear Engineering, PhD
- Engineering, Masters Nuclear Engineering, PhD
- Graduate Programs

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