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.

AMPLIFY 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.

THE NUCLEAR ENGINEERING department at Berkeley gives me the opportunity to explore and research anything I’m passionate about. It is a welcoming, inclusive, positive environment.

–Emily Greer, Undergraduate NE student and researcher with Radwatch
NUCLEAR ENGINEERING

**Bachelor of Science**

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**FIRST YEAR**

- 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.

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**SECOND YEAR**

- 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.

- 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 and Career Center websites.
  - Attend an ESS workshop to create a resume and LinkedIn page.

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**THIRD YEAR**

- Focus on upper division requirements and electives.
  - Complete any “bucket list” courses and remaining major, college, and campus requirements.
  - Complete lower division prerequisites and start planning your upper division courses.
  - Plan now if considering a double major, simultaneous degree, minor, or study abroad.

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**FOURTH YEAR**

- Meet with your ESS advisor to do an official degree check and plan for your final year.
- Make a career fair appointment with an ESS advisor.
- Attend career and graduate school fairs such as the STEM Career & Internship Fair.
- Discuss graduate school options with your faculty advisor and professors.
- Ask professors and graduate student instructors for recommendation letters.
- Meet employers at Employer Info Sessions and On-Campus Recruiting.
- Attend the job fair negotiation workshop in ESS.
- Apply to jobs, graduate school, and other opportunities.

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**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.

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**Jobs and Employers**

- Engineering, Berkeley Applied Analytics Engineer, Space & Naval Warfare Systems
- Hardware Reliability Engineer, Amazon
- Nuclear Engineer, Duke Energy Product Engineer, Lam Research Corporation
- Software Engineer, Cisco Systems

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**Graduate Programs**

- Engineering, Masters Nuclear Engineering, PhD