INTRODUCTION TO THE MAJOR

The Mathematics major provides students excellent preparation for advanced study in math, physical sciences, economics, and industrial engineering, as well as graduate study in business, education, law, and medicine. The major also prepares students for post-baccalaureate positions in business, technology, industry, teaching, government, and finance. Students majoring in Mathematics may choose to major with a teaching concentration.

Visit the Berkeley Academic Guide for more information.

STUDY OPTIONS

- Students majoring in Mathematics may choose to major with a teaching concentration. The teaching concentration is designed to increase the number and quality of math teachers.
- Interested in using math to solve real-world problems? Check out the Applied Mathematics major.
- Already have an intended major? Consider adding Mathematics as a minor.

AMPLIFY YOUR MAJOR

- Prepare for a career in education with CalTeach.
- Build community through MPS Scholars.
- Test your problem-solving skills in the Putnam Competition.
- Apply to a Research Experience for Undergraduates Summer Program.
- Work alongside a grad student mentor via the Directed Reading Program.
- Write an honors thesis or execute an independent study project.

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.

CONNECT WITH US

Golden Bear Orientation
Join your peers in the campus-wide UC Berkeley orientation program for all new students.

Math & Physical Sciences (MPS) Launch Day
Learn of campus opportunities and resources, get questions answered, and meet faculty, advisors, and students at the MPS new student orientation.

Events
Attend department events with students, staff, and faculty. Visit math.berkeley.edu for news and updates.

ADVISING

The Math advising team serves both declared and prospective majors. Meet with them to discuss major requirements, policies and procedures, helpful resources, enriching opportunities, and much more!

For more information or to contact an advisor, visit math.berkeley.edu/programs/undergraduate/advising.

HOW TO USE THIS MAP

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Visit ue.berkeley.edu/majormaps for the latest version of this major map.
**EXTRA CREDIT:**
- Explore **LaTeX** and use it to write mathematical documents.
- Engage in **STEM education and mentorship** through the Berkeley Scientific Journal.
- Apply for a **Golden Bear Orientation Leader** position to welcome new students to Berkeley.
- Participate in the **Haas Scholars Program** to elevate your success.
- Writing an **honors thesis** is strongly recommended for those pursuing an honors degree.

**SECOND YEAR**
- Focus on upper division requirements and electives.
- Review your degree progress with your major and college advisors.
- Learn more about the **Honors Program** with help from the **Program Major Advisors**.
- Do a degree check to ensure you are on track to graduate. Finish remaining major, college, and campus requirements.
- Complement your major with a **certificate or course thread**.
- Register for the **department and campus-wide commencement ceremonies**.

**THIRD YEAR**
- Connect with **faculty to discuss research opportunities**.
- Join a career-oriented group like Data Scholars or a research-oriented group like the Berkeley Scientific Journal.
- Attend a **research experience for undergraduates** or the MSRI Undergraduate Program.
- Compete in the Putnam Competition.
- Plan a senior thesis or project? Apply to the Haas Scholars Program or SURF.
- Apply to a Research Experience for Undergraduates Summer Program or the MSRI Undergraduate Program.
- Take MATH 191 to elevate your success.
- Write an honors thesis or execute an independent study under faculty supervision.
- Keep pursuing your interests through a fellowship or gap year after graduation.
- Apply for a leadership position within your student organization.

**FOURTH YEAR**
- Become a Mathematics Peer Advisor.
- Help other students with Mathematics at the Student Learning Center or independently.
- Connect with **alumni and mentors**.
- Engage in **STEM education and mentorship** through the **Haas Scholars Program**.
- Participate in the **Undergraduates Summer Program**.
- Study Mathematics abroad through Berkeley Study Abroad.
- Study Math abroad through the **Topical Series in Mathematics**.
- Deepen your knowledge of mathematics by attending workshops and conferences.
- Experience life at another **UC or college on a visitor and exchange program**.
- Attend **French Fridays with Dorie** or **TechCal**.
- Contribute to a **community organization**.
- Hone your leadership skills with the **Peter E. Haas Public Service Leaders program**.
- Engage in **STEM education and mentorship with Bridging Berkeley, Expand Your Horizons, or SendForC**.
- Study and intern in Washington D.C. with the **UCDC or Cal in the Capital**.
- Offer your skills as a **Paid Intern**.
- Develop your **networking and communication skills** through activities like **LinkedIn, CareerMail, Mailing Lists, and LinkedIn**.
- Participate in **professional development workshops**.
- Prepare for **career development** opportunities.
- Apply to **graduate school** opportunities.
- Enroll in a **Directed Reading Program** or a **Directed Research Program**.
- Attend the **Haas Public Service Leaders program**.
- Explore service opportunities after graduation, such as **Peace Corps, Teach for America, or U.S. Department of State**.
- Go on a service-learning trip with the **Alternative Breaks Program**.
- Participate in **service-learning and internships**.
- Explore career options through the **Career Connections Series** or a winter externship.
- Use the **Yearly Planner** to guide your career path.
- Join a **hands-on experience in your field**.
- Attend **Employer Info Sessions** and **On-Campus Recruiting**.
- Prepare for **graduate school** opportunities.
- Apply for **internships** in off-campus organizations.
- Discuss your career options and goals with a **Career Advisor**.
- Learn about **graduate and professional school**.
- Prepare for **graduate school** opportunities.
- Update your **resume and LinkedIn profile**.
- Attend **career and graduate school fairs** such as the **STEM Career & Internship Fair**.
- Ask professors and **graduate student mentors** for recommendation letters.
- Conduct informational interviews.
- Attend **Employer Info Sessions** and **On-Campus Recruiting**.
- Apply to jobs, **graduate school**, and other opportunities.

**WHAT CAN I DO WITH MY MAJOR?**
- Jobs and Employers
  - Application Programmer, Wells Fargo
  - Data Analyst, Descena
  - Planner, KTV Manufacturing
  - Product Technician, Esurance
  - Research Assistant, Microsoft
  - Research Fellow, Howard Hughes Inst.
  - Software Developer, Salesforce
  - Software Engineer, Airbnb
  - Software Engineer, Google
  - Software Engineer, Intuit
  - Teacher, Oakland Unified School Dist.
- Graduate Programs
  - Algebra & Number Theory
  - Analysis & Functional Analysis
  - Business
  - Computer Science
  - Electrical Engineering
  - Epidemiology
  - Geometric Analysis
  - Linguistics
  - Mathematical Statistics & Probability
  - Medicine
  - Neurobiology
  - Physics
  - Statistics
  - Topology & Foundations
- Examples gathered from the **First Destination Survey** of recent Berkeley graduates.
- Updated: 06.04.24