MATHEMATICS
Bachelor of Arts

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.

Photo credit: Ben Ailes

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

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

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.

Photo credit: Elena Zhukova

> " *The major builds a strong analytical and logical mind and provides the skills necessary to learn almost anything technical.* "
>
> *– Pure Math Major*

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.

MATHEMATICS

Bachelor of Arts

DESIGN YOUR JOURNEY

Berkeley
UNIVERSITY OF CALIFORNIA

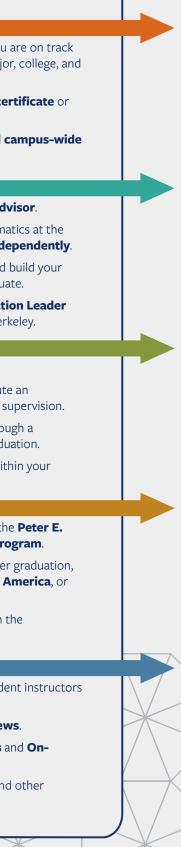|	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Explore your major	Review **major** and **college requirements**, and map out a 4-year plan on **CalCentral**. Visit the **peer advisor blog** and talk with **Mathematics peer advisors** to learn about undergraduate life in the department. Learn how to plan your major, select courses, use LaTex, and more at **MUSA workshops**.	Meet with your **major** and **college advisor** to discuss your academic plans. Complete the prerequisites and **declare Mathematics** as your major. Consider taking **Honors sections** of courses. Consider a **minor** or a **summer minor**. Review major guidelines for **study abroad**.	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.
Connect and build community	Get mentoring with **Berkeley Connect**, **MPS Scholars** and **L&S Mentors Program**. Find study groups, tutoring, and academic support at the **Student Learning Center**. Enroll in MPS 1: Navigating the Mathematical and Physical Sciences. Find community with **Math student groups**.	Attend a **lecture or workshop** hosted by the Math department. Connect with instructors during office hours. Work with a graduate student mentor in the **Directed Reading Program**. Consider MATH 74, a course which teaches skills for transitioning to upper division math.	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**. Hear guest speakers talk about interesting math topics at **Math Mondays**.	Become a **Mathematics Peer Advisor**. Help other students with Mathematics at the **Student Learning Center** or **independently**. Connect with **alumni groups** and build your **network** as you prepare to graduate. Become a **Golden Bear Orientation Leader** and welcome new students to Berkeley.
Discover your passions	Discover new interests in a **Freshman Seminar (Math 24)**, **L&S 1**, or a **DeCal course**. Visit the **Office of Undergraduate Research and Scholarships**.	Enroll in a **Sophomore Seminar**, **Big Ideas** or **Discovery Course**. Assist faculty and graduate students in their research through **URAP**. Explore a career in education with **CalTeach**. Check out math-related classes such as PHIL 12A: Intro to Logic.	Apply to a **Research Experience for Undergraduates Summer Program** or the **MSRI Undergraduate Program**. Compete in the **Putnam Competition**. Take **MATH 191** to elevate your success. Planning a senior thesis or project? Apply to the **Haas Scholars Program** or **SURF**.	Teach your own **DeCal course**. 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**.
Engage locally and globally	Attend the **Calapalooza** student activities fair and get involved with a student organization. Find service opportunities through the **Public Service Center**. Explore study, internship, and research abroad options with **Berkeley Study Abroad**.	Deepen your knowledge of mathematics by attending **workshops and conferences**. Experience life at another UC or college on a **visitor and exchange program**. Contribute to a community organization with an **American Cultures Engaged Scholarship course**.	Study Mathematics abroad through **Berkeley Study Abroad** or **Budapest Semesters in Mathematics**. Engage in STEM education and mentorship with **Bridging Berkeley**, **Expand Your Horizons**, or **SENDforC**. Study and intern in Washington D.C. with **UCDC** or **Cal in the Capital**.	Hone your leadership skills with the **Peter E. 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**.
Reflect and plan your future	Use the **Yearly Planner** to guide your career path. Join **Handshake** to find Berkeley-specific internship opportunities and career development workshops. Explore **career fields** through the **Career Connections Series** or a **winter externship**. Sign up for **CareerMail**.	Discuss career options and goals with a **Career Educator**. Learn about **graduate and professional school**. See **Step-by-Step** for planning help. Plan **internships** and attend **internship fairs**. MATH 197 Field Study can be taken for study (internships) in off-campus organizations.	Discuss graduate school options with advisors and professors. Prepare to take exams required for **graduate school**. Update your resume and **LinkedIn** profile. Attend **career and graduate school fairs** such as the STEM Career & Internship Fair.	Ask professors and graduate student instructors 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, KNT 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: 11.03.23