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.

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.

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.

CONNECT WITH US

Cal Day
Come to UC Berkeley’s annual Open House in April for information sessions, campus tours, special talks, and more.

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

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

AMPLIFY YOUR MAJOR

- Add a Teaching Concentration to your major and join CalTeach to prepare for a career in education.
- Test your problem-solving skills in the prestigious Putnam Competition.
- Apply to a Research Experience for Undergraduate Summer Program.
- Work alongside a graduate student mentor through the Directed Reading Program.
- Write an honors thesis or execute an independent study project.

The major builds a strong analytical and logical mind and provides the skills necessary to learn almost anything technical.

– Pure Math Major

Visit vcue.berkeley.edu/majormaps for the latest version of this major map.
# Design Your Journey

**Mathematics Bachelor of Arts**

<table>
<thead>
<tr>
<th><strong>First Year</strong></th>
<th><strong>Second Year</strong></th>
<th><strong>Third Year</strong></th>
<th><strong>Fourth Year</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Explore your major</strong></td>
<td><strong>Meet with your major and college advisor to discuss your academic plans.</strong></td>
<td><strong>Focus on upper division requirements and electives.</strong></td>
<td><strong>Do a degree check to ensure you are on track to graduate.</strong></td>
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<tr>
<td>Review major and college requirements 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. Check out MUSA’s LaTeX workshops to learn how to use this important software.</td>
<td>Complete the prerequisites and declare Mathematics as your major. Consider taking Honors sections of courses. Review major guidelines for study abroad.</td>
<td>Review your degree progress with your major and college advisor. Learn more about the Honors Program with the help of the Honors Program Advisor.</td>
<td>Complete any “bucket list” courses. Finish remaining major, college, and campus requirements. Complement your major with a certificate, course thread, or summer minor.</td>
</tr>
</tbody>
</table>

| **Connect and build community** | **Consult with faculty to discuss research opportunities.** | **Connect with faculty to discuss research opportunities.** | **Become a Mathematics Peer Advisor.** |
| Get 11 mentoring with Berkeley Connect and L&S Mentors Program Find study groups, tutoring, and academic support at the Student Learning Center Enrol in UGIS 98: College Success in L&S Build your community through Math undergraduate organizations. | 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. | 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. | 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, L&S 1, or DeCal course.** | **Apply to a Research Experience for Undergraduates Summer Program or the MSRI Undergraduate Program.** | **Teach your own DeCal course.** |
| Discover new interests in a Freshman Seminar, L&S 1, or DeCal course. Visit the Office of Undergraduate Research and Scholarships. Compete in the Putnam Competition. Take MATH 191 to elevate your success. | Apply for a leadership position within your student organization. | Apply for a Research Experience for Undergraduates Summer Program or the MSRI Undergraduate Program. Apply for a Math Team Fellowship to pursue summer research with your peers. Planning a senior thesis or project? Apply to the Haas Scholars Program or SURF. | 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 Calapaloza student activities fair and get involved with a student organization.** | **Study Mathematics abroad in Moscow, Russia, Budapest, Hungary or Berlin, Germany.** | **Hone your leadership skills with the Peter E. Haas Public Service Leaders program.** |
| Attend the Calapaloza 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. | 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. | 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. | 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** | **Meet with a Career Center counselor to discuss your career options and goals.** | **Discuss graduate school options with advisors and professors.** | **Ask professors and graduate student instructors for recommendation letters.** |
| Visit the Career Center and Career Counseling Library Check out the Career Center Yearly Planner Sign up for Handshake and CareerMail Explore career fields in the Career Connections Networking Series. | Explore career fields through the Career Connections Series or a winter externship. Learn about graduate and professional school. See Step-by-Step for planning help. Plan internships and attend internship fairs. | 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. | 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, Eurance Research Assistant, Microsoft Research Fellow, Howard Hughes Inst.
  - Software Developer, Salesforce
  - Software Engineer, Airbnb
  - Software Engineer, Google
  - Software Engineer, Intel
  - 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 Last: 06/30/20