

Photo credit: Natalea Schager

## 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**

## 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 nature.berkeley.edu for news and updates.

## **ADVISING**

The Undergraduate Advisors for all Rausser College majors are located in the Office of Instruction and Student Affairs in 260 Mulford Hall.

Visit nature.berkeley.edu/advising/meet**rausser-advisors** for detailed office hours and appointment booking links. You may email general advising questions to pmb.ugrad@berkeley. edu.

## **GENETICS AND PLANT BIOLOGY** Bachelor of Science

**INTRODUCTION TO THE MAJOR** 

The **Genetics and Plant Biology** major is a broad based program emphasizing the study of plants from the molecular and genetic to organismal levels. The lower division coursework provides students with a foundation in biological and physical sciences as preparation for advanced study at the upper division level and in their concentration. The Department of Plant and Microbial Biology provides a rich and supportive environment for learning, and coursework from the department can be used as a foundation for applications to medical school.

**CC** GPB is technical information that's applicable to

## MAJOR CONCENTRATIONS

Students in the Genetics and Plant Biology major have the opportunity to pursue one of four concentrations through their elective coursework: (1) biotechnology and bioenergy, (2) plant diversity and evolution, (3) plant genetics, genomes, or (4) bioinformatics, and plant microbe interactions.

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

## Berkeley

**Rausser College of Natural Resources** 260 Mulford Hall #3100 Berkeley, CA 94720-3100 nature.berkeley.edu







Photo credit: Julie Gipple

## real post-grad jobs! I've learned about so much that directly translates to lab work, research, and real life. 🤊

- Julia Sherman, GPB Junior

## **AMPLIFY YOUR MAJOR** • Get involved in a **student group** such as Microbial Sciences Association or **Planty** Social. • Apply for a research position through the **SPUR** program and present at a college poster session. • Fund travel for academic conferences or research with a Rausser College Travel Grant. • Carry out a research project under the guidance of a faculty mentor through the **Rausser College Honors Program**

# **GENETICS AND PLANT BIOLOGY**

**DESIGN YOUR JOURNEY** 

Bachelor of Science

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
<b>Explore</b> your major	Meet with your <b>college advisor</b> to discuss your academic plans. Review <b>major</b> and <b>college requirements</b> . Talk to the college's <b>peer advisors</b> about life in the major.	Complete lower division prerequisites and <b>declare the major</b> . Complement your major with a <b>certificate</b> , <b>course thread</b> , or <b>summer minor</b> . Review college guidelines for study abroad.	Focus elective courses on a <b>concentration</b> . Explore approved electives from outside departments for a more interdisciplinary experience, or build an emphasis by taking interrelated classes. Ask your college advisor about the <b>Rausser</b> <b>College Honors program</b> .	Do a degree check to ensure you are graduate. Complete any "bucket list" courses. Finish remaining major, college, and requirements.
<b>Connect</b> and build community	Take advantage of the college's <b>Student</b> <b>Resource Center</b> . Join a <b>student group</b> such as Microbial Sciences Association or <b>Planty Social</b> . Get 1:1 mentoring from graduate students with <b>Berkeley Connect</b> .	Start attending <b>events</b> in the college. Get to know professors and graduate student instructors during their office hours. Connect with a community of biology students in the <b>Biology Scholars Program</b> .	Help other students as a Rausser College <b>Peer</b> <b>Advisor</b> . Become a <b>Golden Bear Orientation Leader</b> and welcome new students to UC Berkeley. Seek mentorship from your professors, faculty and graduate student instructors.	Join a professional association relate interests. Connect with <b>alumni groups</b> and b <b>network</b> as you prepare to graduate
<b>Discover</b> your passions	<ul> <li>Discover new interests in a Freshman</li> <li>Seminar or student-run DeCal course.</li> <li>Apply for a research position through SPUR.</li> <li>Visit the Office of Undergraduate Research and Scholarships.</li> <li>Learn about research opportunities for Rausser College students.</li> </ul>	Enroll in a <b>Sophomore Seminar</b> , <b>Big Ideas</b> <b>Course</b> or <b>Discovery Course</b> . Assist faculty in their research through <b>URAP</b> . Check out research by your peers at a <b>college</b> <b>poster session</b> .	Apply for a <b>Rausser College Travel Grant</b> to fund travel for academic conferences or research. Find research and funding opportunities in the <b>OURS database</b> , <b>SPUR</b> , or <b>URAP</b> . Consider applying to the <b>NSF Research</b> <b>Experience for Undergraduates</b> .	Teach your own <b>DeCal course</b> . Undertake an optional honors thesis independent study Present your research at a <b>poster s</b> submit it to the Berkeley Scientific J Keep pursuing your interests throug <b>fellowship</b> or gap year after gradua
<b>Engage</b> locally and globally	Attend the <b>Calapalooza</b> student activities fair and get involved with a student organization. Find service opportunities through the <b>Public</b> <b>Service Center</b> . Explore study, internship, and research abroad options with <b>Berkeley Study Abroad</b> .	Contribute to a community organization with an <b>American Cultures Engaged Scholarship</b> <b>course</b> . Experience life at another UC or college on a <b>visitor and exchange program</b> . Check out the <b>Moorea program</b> for fieldwork opportunities abroad.	Look into the Career Center's list of <b>health</b> <b>volunteer opportunities</b> . Explore science and policy in Washington DC with <b>UCDC</b> or <b>Cal in the Capital</b> .	Explore service opportunities after g such as <b>Peace Corps</b> , <b>Teach for An</b> <b>U.S. Department of State</b> . Attend a conference such as the <b>Cli</b> <b>Initiative: University Conference</b> . travel grants from the college and A
<b>Reflect</b> and plan your future	Visit <b>Berkeley Career Engagement</b> and the <b>Career Counseling Library</b> . <b>Develop a plan</b> for getting career ready. Sign up for <b>Handshake</b> and <b>CareerMail</b> . Check out the <b>Genetics and Plant Biology</b> <b>Career Snapshot</b> .	Take advantage of <b>career and pre-health</b> <b>advising</b> for Rausser Colleg students. Explore <b>career fields</b> through the <b>Career</b> <b>Connections Series</b> or a <b>winter externship</b> . Learn about <b>graduate and professional</b> <b>school</b> . See <b>Step-by-Step</b> for planning help. Plan <b>internships</b> and attend <b>internship fairs</b> .	Conduct <b>informational interviews</b> . Discuss graduate school options with advisors and professors. Update your resume and <b>LinkedIn</b> profile. Attend <b>career and graduate school fairs</b> such as the STEM Career & Internship Fair.	Utilize <b>job board tools</b> in your job s Ask professors and graduate studen for recommendation letters. Attend <b>Employer Info Sessions</b> an <b>Campus Recruiting</b> . Apply to jobs, graduate school, and o opportunities.





#### Jobs and Employers

Analyst, Cornerstone Research Lab Tech, Foriphyte Research Asst., LBNL Res. Assoc., Innovative Genomics Inst.

### **Graduate Programs**

Biochemistry, PhD Horticultural Science, Masters Molecular Biology, PhD Plant Biology, PhD Soil Science & Agronomy, Masters

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



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