INTEGRATIVE BIOLOGY

Bachelor of Arts

Berkeley
UNIVERSITY OF CALIFORNIA

INTRODUCTION TO THE MAJOR

Students in the **Integrative Biology** (IB) major gain a broad and deep knowledge of the biological sciences as well as an excellent foundation in the biology of organisms, populations, and communities. Our research spans hierarchical levels from molecules to ecosystems, incorporating many diverse disciplines to unravel the complexity of biology.

If you are interested in medicine and related health sciences, ecology and environmental sciences, or whole-organism biology, including the study of genetic, cellular, and morphological processes in animals and plants, then this is the major for you.

Photo credit: Brian Lee

> *“ I love the variety of labs and classes available in Integrative Biology. ”*
>
> *– Spring 2018 Graduate in IB*

EMPHASES IN IB

Students majoring in Integrative Biology choose one of two emphases: Ecology, Evolution, and Organismal Biology (Emphasis 1) or Integrative Human Biology (Emphasis 2).

The lower division requirements are the same for all IB students, regardless of the emphasis. The upper division requirements differ slightly for the two emphases, but all students take lecture and lab or field lab classes from IB’s three groups: Evolution and Genetics; Ecology, Behavior, and Biodiversity; Structure, Function, and Human Health.

AMPLIFY YOUR MAJOR

- Engage in **undergraduate research** on a faculty-initiated project or your own research topic.
- Get **teaching experience** in an IB course or as a DeCal facilitator..
- Expand your perspective through **study abroad** while satisfying **major requirements**.

Photo credit: Fay Chang

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 **ib.berkeley.edu** for news and updates.

ADVISING

Staff advisors are here to support you through remote and in-person appointments, plus drop-in advising options.

Junior and senior IB students also provide **peer advising** on the content of specific classes, help you to develop plans, and answer general questions about being a student at Berkeley.

Faculty advisors are also available by appointment to discuss courses, research, and the department as a whole.

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.

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DESIGN YOUR JOURNEY

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	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Explore your major	Visit the **IB website** to learn about studying IB at Berkeley. Familiarize yourself with **major** and **college requirements**. Meet with an **IB peer advisor** to discuss the variety of **courses** offered by IB, including IB 77 and **Freshman and Sophomore Seminars**.	Check-in with an IB **staff advisor** to discuss IB's two emphases and to review your **major requirements** and declaration plan. Volunteer with IB at **Cal Day**. Plan now if you are considering a **minor** or **summer minor**. Sign up for IB's **newsletter**.	If still undeclared, visit the IB website to start the **declaration process**. Start upper division **courses** (some are taught only once every other year). Expand your studies with an **enrichment course** or **elective** in another department.	Check your Academic Progress Report (APR) and meet with an IB **staff advisor** and **college advisor** to ensure you are on track to fulfill all **major**, college, and campus requirements. Finish any remaining major and college requirements.
Connect and build community	Build your scientific community in IB 75: Discovering your Inner Biologist. Attend **Calapalooza** and explore **student organizations** such as **DIBS**. Form a study group and get tutoring at the **Student Learning Center**. Join IB on **Facebook**, **Instagram**, & **Twitter**.	Attend IB **department events**, including socials and seminars. Go to office hours to build relationships with professors and graduate student instructors. Meet with **IB faculty**. Connect with a community of biology students in the **Biology Scholars Program**.	Meet with a graduate student mentor as part of **Berkeley Connect's IB 198BC course**. Grow your study groups into communities of support. Apply for leadership positions in student organizations or start your own new club. Give back by becoming an **IB Peer Advisor**	Meet with **faculty and staff advisors** to discuss graduate school options. Apply to **teach** as part of an IB course
Discover your passions	Visit the **Office of Undergraduate Research and Scholarships** to learn about research on campus. Explore new topics in student-facilitated **DeCal courses**. Develop skills by teaching math and science to K-12 students in the **CalTeach Program**.	Earn credit through **undergraduate research** opportunities for IB students. Explore unique fields such as **Bioinspired Design** or **Human Biological Variation**. Assist in research through **URAP**. Get involved with **citizen science**.	Apply to summer research opportunities such as the **SURF Program** and **Haas Scholars Program**. Apply for **fellowships** to fund your own project. Facilitate your own **DeCal course** on a topic you are interested in or passionate about	If eligible, consider applying to the **IB honors program**. Enroll in non-major courses you haven't had time to pursue or courses that are outside your comfort zone.
Engage locally and globally	Research **study abroad** programs. Explore volunteering opportunities on campus and in the Berkeley community (e.g., **Cal Sports Medicine**, **Berkeley Free Clinic**). Learn about community service opportunities with the **Public Service Center**.	Explore **study abroad options** that satisfy IB requirements. Consider the **Alternative Breaks** program to go on service-learning trips over school breaks. Look into the Career Center's list of **health volunteer opportunities**.	Apply for **NSF Research Experience for Undergraduates** programs at schools around the country. Attend professional association conferences for networking opportunities. Consider international research or exchange programs like IB's **Study Abroad in Norway**.	Develop your own tropical biology research project as part of the **Moorea course**. Apply for **fellowships** available to recent Berkeley graduates. Explore gap year opportunities prior to embarking on your next academic or career adventure.
Reflect and plan your future	Use Berkeley Career Engagement's **Yearly Planner** to guide your career path. Join **Handshake** and sign up for **Career Mail** to find Berkeley-specific internship opportunities and development workshops. Visit the **Career Counseling Library**.	Meet alumni in the **Career Connections Networking Series** or shadow through the **Cal Externship Program**. Conduct **Informational Interviews** to learn more about different **career fields**, including those **related to IB**. Attend **internship fairs**.	Build job search skills and confidence with **career center workshops**. Explore post-grad options at **career and graduate school fairs**. Ask professors for letters of recommendation. Plan any post-grad exams (GRE, MCAT, etc).	Update **resume** and practice interviewing skills. Find jobs and internships through the **On-Campus Recruiting** program and IB newsletter. Attend **Employer Info Sessions** and network through the **MCB Industry Affiliates Program**. Apply to graduate and professional schools.

WHAT CAN I DO WITH MY MAJOR?

Jobs and Employers

Analyst, Bank of America
Biological Lab Aide, USDA
Clinic Coordinator, Cal. Psychcare
Clinical Research Coordinator, UCSF
EMT, Lynch Ambulance
Fellow, AmeriCorps
Medical Fellow, East Bay Ophthalmol.
Mental Health Couns., Finch Youth
Naturalist, Camp SEA Laboratory
Research Assist., Stanford
Research Associate, Genentech
Teacher, Teach for America
Veterinary Assistant, VCA
Visiting Nurse, Holistic Care

Graduate Programs

Animal Biology
Biomedical Engineering
Business
Communication
Computer Science
Dentistry
Ecology
Education
Evolution
Genetics
Law
Medicine
Molecular Biology
Nursing
Optometry
Pharmacy
Physical Therapy
Public Health
Veterinary Medicine

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

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