

2022 UCLA SUMMER ORIENTATION
DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY

DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY (<https://www.eeb.ucla.edu/undergraduate/>)

Biology Major • Ecology, Behavior, and Evolution Major • Marine Biology Major

Conservation Biology Minor • Evolutionary Medicine Minor

Undergraduate Counselors: Jessica Angus, Wendy Ramos

101 Hershey Hall, (310) 825-1680

How to contact us? Go to **Message Center** on MyUCLA.



Ecology and Evolutionary Biology Undergraduate CCLE Page – This list serv will migrate to the Canvas site sometime during Fall Quarter.

Undergraduate News Services - Subscription Highly Recommended

Students in the Department of Ecology and Evolutionary Biology are encouraged to subscribe to the EEB Undergraduate Counseling **CCLE page**. This page will connect you with all official communications from the department, including announcements about:

- Office Hours for the EEB Undergraduate Office
- Department events
- New classes or seats being opened during enrollment
- Field Biology Quarter, Field Marine Biology Quarter, and Marine Biology Quarter application cycles
- Programs related to graduate schools and professional schools
- Opportunities for research, leadership, internships, employment, scholarships, volunteering, and study abroad

To obtain initial access to this website:

1. Log in using your UCLA logon (the LOGIN button is located in the upper right-hand corner of this site)
2. Click on one of the "Enroll me" buttons above or left
3. Enter the Enrollment key: **54321**
4. Once you have completed these steps, you will just need to sign in with your UCLA logon the next time you access this site
5. Bookmark this URL

To unenroll from this site: Click on the "Unenroll me from eeb-counseling" link in the left-hand block.



DEPARTMENTAL COUNSELORS answer questions about your *major and minor requirements*:

- Lower Division major requirements
- Upper Division major requirements
- Minor requirements (as applicable)
- Course substitutions for the Major or Minor
- Global GPA – encompasses Upper Division major requirements only
- Academic questions about applying to graduate or professional school

CONTACTING YOUR COUNSELOR

Your **DEPARTMENTAL COUNSELOR** can assist you with the following:

- ❖ Enrollment into classes offered by their department
- ❖ Class planning

NOTE: Departmental Counselors CANNOT enroll you into classes offered by a different department.

When you contact any COUNSELOR (College, Departmental, etc.), always include the following information in all correspondence:

- Your full name
- Your 9-digit student ID number (UID)
- Your specific question(s)

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If you are inquiring about enrollment into a class, always include the following in your correspondence in addition to the above information:

- The Department and Course Number AND the discussion section(s) of the class you are interested in (e.g., EE BIOL 100, DIS 1A, etc.)
- The 9-digit Student Records System (SRS) number for at least two (2) discussion/lab sections that will work in your schedule, listed in order of preference.

Please be aware that the counselors in the EEB Undergraduate Office do not check their e-mail or Message Center messages outside of regular office hours, e.g., after 5:00PM or on weekends or holidays.

UCLA STUDENT GROUPS

There are numerous student groups on campus in which you can get involved based on your interests. A comprehensive list of student groups may be found here: <http://www.studentgroups.ucla.edu/home/>

Department of Ecology and Evolutionary Biology Undergraduate Association:

<https://www.facebook.com/EEBUndergradStudentAssociation>



MAJOR CURRICULUM & ACADEMIC ELIGIBILITY

LIFE SCIENCE CORE CURRICULUM (Lower Division Major Preparation Courses)

- All major preparation courses must be passed with a grade of C- or better and must be completed with an overall GPA of 2.00 or better. Course numbers with an asterick (*) on the following page indicate the recommended series for ***Life Sciences majors***. Also referred to as “major prep.”
- **NOTE: The Chemistry and Math series are TRUE sequences, i.e., you must complete the courses in order. Pre-requisites are strictly enforced and must be completed before moving forward in the series. Students who completed Chem 20A and Chem 20L may continue on to take Chem 14B, but not Chem 14BL. Students may take only one of Chem 20L or Chem 14BL**
- Statistics is not required all of the Life Sciences majors. However, you will need statistics if you plan to engage in research. In addition, many professional schools (medical, dental, etc.) may require a statistics course as a pre-requisite, and statistics may count toward the one year (three quarters) of college-level math required for professional school. For all EEB majors, students may only take either Statistics 13 or Life Sciences 40 to fulfill the stats requirement.
- **IMPORTANT: Students who repeat more than two major prep courses or any major prep course more than once are subject to dismissal from any major in the Division of Life Sciences. Please contact your departmental counselor if you need to repeat a course.**

If you need assistance with enrollment into any of the Life Science Core Curriculum classes, you must contact that department:

<p>Life Sciences Core Office (LS 7A, 7B, 7C, 23L, 107; 20, 30A, 30B, 40) 2305 Life Sciences Building, (310) 825-6614 Enrollment E-mail: LScore@lifesci.ucla.edu</p>	<p>Chemistry & Biochemistry (All Chemistry classes, e.g., Chem 14-series, etc.) 4006 Young Hall, (310) 825-1859 E-mail: ugrad@chem.ucla.edu</p>	<p>Mathematics (All Math classes, e.g., Math 3-series, etc.) 6356 Math Sciences Building, (310) 206-1286 E-mail: ugrad@math.ucla.edu</p>	<p>Physics (All Physics classes, e.g., Physics 5-series) 1-707D Physics and Astronomy Building, (310) 206-1447 Contact: Mary Tran mtran@physics.ucla.edu</p>	<p>Statistics (All Statistics classes, e.g., Stats 13) 8117 Math Sciences Building, (310) 206-3742 Contact: Michael Kang michael.kang@stat.ucla.edu</p>
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The recommended sequence (Life Sciences) for each area of study is indicated by an asterisk (*).

CHEMISTRY (Choose one series.)

	Course	Title	Co-/Pre-Requisite(s)	Units
*	14A OR 14AE	(14A) Atomic and Molecular Structure, Equilibria, Acids, and Bases (14AE) General Chemistry for Life Sciences I - Enhanced	Prep: HS chem and 3 ½ years HS math; Enforced co-req: LS 30A or Math 3A/31A or score of 48 or better on Math Diagnostics Test.	4
*	14B OR 14BE	(14B) Thermodynamics, Electrochemistry, Kinetics, and Organic Chemistry (14BE) General Chemistry for Life Sciences II - Enhanced	Enforced co-reqs: 14A with min. grade of C-; LS 30B or Math 3B/31B with min. grade of C-	4
*	14BL	General and Organic Chemistry Laboratory I	Enforced req: 14A with min. grade of C-; Enforced co-req: 14B	3
*	14C	Structure of Organic Molecules	Enforced requisite: 14B with min. grade of C-	4
*	14D	Organic Reactions and Pharmaceuticals	Enforced requisite: 14C with min. grade of C-	4
*	14CL	General and Organic Chemistry Laboratory II <i>-not required for the major but needed for pre-health</i>	Enforced requisites: 14B and 14BL with min. grade of C-	4
	Course	Title	Co-/Pre-Requisite(s)	Units
	20A	Chemical Structure	Preparation: HS chem and 3 ½ years HS math Enforced co-requisite: Math 31A	4
	20B	Chemical Energetics and Change	Enforced requisites: 20A and Math 31A with min. grade of C-	4
	20L	General Chemistry Laboratory	Enforced requisite: 20A with min. grade of C- Enforced co-requisite: 20B	3
	30A	Organic Chemistry I: Structure and Reactivity	Enforced requisite: 20B with min. grade of C-	4
	30AL	General Chemistry Laboratory II	Enforced requisites: 20B, 20L and 30A with min. grade of C-	4
	30B	Organic Chemistry II: Reactivity, Synthesis, and Spectroscopy	Enforced requisite: 30A with min. grade of C-	4
	30BL	Organic Chemistry Laboratory I	Enforced requisite: 30A or 30AH with min. grade of C-	

LIFE SCIENCES

	Course	Title	Co-/Pre-Requisite(s)	Units
*	7A	Cell and Molecular Biology	N/A	5
*	7B	Genetics, Evolution, and Ecology	Enforced req: 7A	5
*	7C	Physiology and Human Biology	Enforced req: 7B	5
*	23L	Introduction to Laboratory and Scientific Methodology	Enforced req: LS 2 or 7B; recommended to be taken concurrently with LS 7C	3

MATHEMATICS & STATISTICS (Choose one series.) *NOTE: Not all Life Sciences majors require statistics.*

	Course	Title	Co-/Pre-Requisite(s)	Units
*	LS 30A	Mathematics for Life Scientists	Preparation: 3 years of HS math (to algebra II), basic familiarity with computers	5
*	LS 30B	Mathematics for Life Scientists	Enforced requisite: 30A	5

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*	LS 40 OR Stats 13	Statistics of Biological Systems	(LS 40) Enforced requisite: 30A	5
		Introduction to Statistical Methods for Life & Health Sciences	N/A	5
	Course	Title	Co-/Pre-Requisite(s)	Units
	Math 3A	Calculus for Life Sciences Students	Preparation: 3 ½ years HS math Enforced requisite: score of 48 or better on Math Diagnostics Test or Math 1 with min. grade of C-	4
	3B	Calculus for Life Sciences Students	Requisite: 3A with min. grade of C-	4
	3C	Ordinary Differential Equations with Linear Algebra for Life Sciences Students	Requisite: 3B with min. grade of C-	4
*	LS 40 OR Stats 13	Statistics of Biological Systems	(LS 40) Enforced requisite: 30A	5
		Introduction to Statistical Methods for Life & Health Sciences	N/A	5
	Course	Title	Co-/Pre-Requisite(s)	Units
	Math 31A OR Math 31AL	(31A) Differential and Integral Calculus (31AL) Differential and Integral Calculus Laboratory	Preparation: 3 ½ years HS math (including some coordinate geometry and trigonometry) Enforced requisite: successful completion of Math Diagnostics Test or Math 1 with min. grade of C- (31AL) Cannot take both 31A and 31AL.	4 (31A) 5 (31AL)
	31B	Integration and Infinite Series	Requisite: 31A with min. grade of C- Cannot take both 31B and 3B	4
	32A	Calculus of Several Variables	Enforced requisite: 31A with min. grade of C-	4
*	LS 40 OR Stats 13	Statistics of Biological Systems	(LS 40) Enforced requisite: 30A	5
		Introduction to Statistical Methods for Life & Health Sciences	N/A	5

PHYSICS (Choose one series.)

	Course	Title	Co-/Pre-Requisite(s)	Units
*	5A	Physics for Life Sciences Majors: Mechanics & Energy	Enforced reqs: Math 3A, 3B, 3C (may be taken concurrently) or LS 30A, 30B	5
*	5B	Physics for Life Sciences Majors: Thermodynamics, Fluids, Waves, Light, and Optics	Enforced req: 5A	5
*	5C	Physics for Life Sciences Majors: Electricity, Magnetism, and Modern Physics	Enforced req: 5A	5
	Course	Title	Co-/Pre-Requisite(s)	Units
	1A	Physics for Scientists & Engineers: Mechanics	Enforced req: Math 31A, 31B; Enforced co-req: 32A	5
	1B	Physics for Scientists & Engineers: Oscillations, Waves, Electric and Magnetic Fields	Enforced reqs: 1A; Math 31A, 32A; Enforced co-req: 32B	5
	1C	Physics for Scientists & Engineers: Electrodynamics, Optics, and Special Relativity	Enforced reqs: 1A, 1B; Math 32A, 32B; Enforced co-req: 33A	5
	4AL	Physics Lab for Scientists & Engineers: Mechanics	Enforced requisite: 1A; Enforced co-requisite: 1B	2
	4BL	Physics Lab for Scientists & Engineers: Electricity and Magnetism	Enforced requisites: 1A, 1B; Enforced co-requisite: 1C	2

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COURSE PLANNING & ENROLLMENT

In order to acclimate yourself to UCLA, it is recommended that you take no more than three (3) classes in your first quarter at UCLA. As a Life Sciences major, we recommend that you take two (2) science/major classes and one (1) non-science course, e.g., general education, writing, etc. in your first quarter. For questions about specific courses pertaining to your major, please see your departmental counselor.

All EEB majors (freshman admits) are encouraged to begin to enroll in upper division EEB courses in their second year, e.g., EEB 100. The main pre-requisite for the upper division EEB courses is LS 7B.

A competitive application process is used to determine who is chosen to participate in the field quarters (EBE: FBQ or MBQ or FMBQ; Marine Biology: MBQ or FMBQ). The application period is usually one year prior to the field quarter. Information about upcoming field quarters and application availability and deadlines will be sent via the EEB Undergraduate News Listserv.

Students, PLEASE meet with departmental counselors to help pick the right courses and curricular pathway.

ENROLLMENT

You are allowed to enroll in a maximum of 19 units without special permission during Fall, Winter and Spring Quarter. During Summer Sessions, you are allowed to enroll in a maximum of 18 units without special permission. To enroll in more than the allowed maximum units, you must obtain permission from your College Counseling unit (CAC, AAP, Honors, Athletics).

During **First Pass**, students are allowed to enroll in a maximum of 10 units total. You will be able to enroll in your remaining units once your **Second Pass** begins.

Some departments restrict enrollment into some of their classes, especially upper division courses (those numbered 100-199), during Priority/First Pass to the majors/minors in their department. These enrollment restrictions are usually lifted once Second Pass begins. If you still have difficulty, contact the department that is offering the class to assist you with enrollment. For example, contact the Chemistry department for Chem 153A.

FOR ENROLLMENT ASSISTANCE: Contact the department that is offering the course. It is recommended that you e-mail the appropriate department with your enrollment request **once your enrollment pass time has started**. ***In your message or e-mail, include your name and UCLA ID with the class you want to add with the 9-digit SRS number of the class section(s), listed in priority order.***

Departments can only add you to your requested class once your enrollment pass begins and IF there is still space in the class. Moreover, the departments are not able to assist you with your request outside of normal business hours. Please be aware that you cannot be added to a class for which you have not completed the pre-requisites. We advise you to read the "Course Notes" section in the "Crs Info" link in the Schedule of Classes.

IMPORTANT DEADLINES:

Please consult the "CALENDARS" tab on the Registrar's webpage (<https://www.registrar.ucla.edu/Term-Calendar>)

OTHER ENROLLMENT ISSUES:

During the *FIRST ENROLLMENT PASS*, some departments place an enrollment restriction on some of their upper division courses (courses numbered 100-199) to ensure that officially declared majors/minors in their department are able to enroll in the department's classes. Usually the enrollment restriction is lifted once the *SECOND ENROLLMENT PASS* begins. However, a department may designate a specific date when enrollment is open to non-majors/minors. **We highly recommend that you read the "Class Notes" that are in the "Crs Info" link on the class listing on the online Schedule of Classes (<https://sa.ucla.edu/ro/public/soc>).**

Please be aware that departmental counselors can only assist you with enrollment into classes offered by their department, e.g., EEB counselors can only enroll you into EEB classes, the Phy Sci counselor can only enroll you into Phy Sci classes, etc.

Regarding General Education Requirements:

As a major in the Life Sciences, you should NOT take any GE courses in the *Foundations of Scientific Inquiry* category. The courses within the Life Science Core Curriculum will satisfy this area. However, you should check with your College Counseling Unit to verify any outstanding GE course requirements.

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OTHER COURSE PLANNING TIPS:

- ❖ If possible, avoid taking two (2) lab courses in the same quarter.
 - ❖ If possible, save some of your GE classes for later quarters in order to balance your schedule.
 - ❖ Check the Final Exam schedule when choosing classes. Most students prefer not having more than one final on the same day.
Your instructor will not change the date of the final exam for your convenience.
 - ❖ If you have questions about your schedule, please consult your departmental counselor.
 - ❖ If possible, make sure that at least two (2) of your GE courses are Upper Division (UD) courses, e.g., Visual & Performing Arts GE = THEATER 107. *UD = course numbers 100-199*
 - ❖ Always have a PLAN B, PLAN C, etc.
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ACADEMIC ELIGIBILITY – Majors in the [Division of Life Sciences](#)

Each core curriculum course (major prep) must be passed with a grade of C- or better, and all courses must be completed with an overall grade-point average of 2.0 or better. Students receiving a grade below C- in two core curriculum courses, either in separate courses or repetitions of the same course, are subject to dismissal from the major.

After each quarter, all EEB students' grades will be checked. Students who did not pass a major prep course with the minimum C- may receive notification that their major status IS one of the following:

- Warning (one major prep course whose grade is below C-)
- Probation (two major prep courses whose grades are below C-) or
- Ineligible (see policy above) - Students who are determined to be Ineligible for their chosen EEB major will have their major changed to Undeclared.



PRE-HEALTH & CAREER RESOURCES

Pre-Health at UCLA:

<https://www.facebook.com/PreHealthUCLA/>
<https://prehealth.ucla.edu/>

UCLA Career Center

UNDERGRADUATE: <https://career.ucla.edu/undergrad>

HANDSHAKE: <https://ucla.joinhandshake.com/login>

– connects Bruins with internships, job, and career opportunities

VOLUNTEER OPPORTUNITIES ON CAMPUS – Many programs may still be on hold due to COVID-19

UCLA Volunteer Center (<https://volunteer.ucla.edu/>)

UCLA Health Volunteer Program (<https://www.uclahealth.org/volunteer/>)

UCLA Health Volunteer Services (<https://www.uclahealth.org/Volunteer/our-programs>)

Care Extenders (<https://www.uclahealth.org/careextender/>)

Administrative Intern (<https://www.uclahealth.org/Volunteer/intern-program>)

Nursing Volunteer (<https://www.uclahealth.org/Volunteer/nursing-volunteer-program>)

MAPS Volunteer (<https://www.uclahealth.org/Volunteer/maps-volunteer-program>)

People Animal Connection-PAC (<https://www.uclahealth.org/pac/>)

Clinical UCLA Health Sciences Volunteer Program

(<https://www.uclahealth.org/Volunteer/clinical-ucla-health-sciences-volunteer-program>)

Non-Clinical UCLA Health Sciences Volunteer Program

(<https://www.uclahealth.org/Volunteer/non-clinical-ucla-health-sciences-volunteer-program>)

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RESEARCH OPPORTUNITIES & RESOURCES

UNDERGRADUATE RESEARCH CENTER (URC): <http://sciences.ugresearch.ucla.edu/>

Provides information and opportunities for undergraduates to engage in research and creative activities at all levels.
Life and Physical Sciences: 2121 Life Sciences, (310) 794-4227, E-mail: urcsciences@college.ucla.edu

Students should also check with their individual departments about other opportunities and additional information.

Before engaging in any research activities, it is recommended that you attend an introductory workshop:

ENTERING STEM RESEARCH & SRP-99 WORKSHOPS

<http://sciences.ugresearch.ucla.edu/getting-started/workshops/>

RESEARCH CONTRACT COURSES (99, 198ABCD, 199)

Each department has different policies and different submission deadlines for your research contracts. You are responsible for being aware of these deadlines.



How to get a full year (three quarters) of math for professional school

Mathematics

(8 unit max for both exams)

- Calculus AB/
AB subscore of BC exam 3-4 MATH Calculus 4.0 QR
- 5 MATH 31A 4.0 QR
- Calculus BC 3 MATH Calculus 8.0 QR
- 4 MATH 31A / Calculus 8.0 QR
- 5 MATH 31A and 31B 8.0 QR

IF YOU HAVE:

Credit for Math 31A and 31B at admission due to AP Calculus score:	Credit for Math 31A at admission due to AP Calculus score:	Credit for "Calculus" (no specific course due to AP Calculus score):
<i>Option 1</i>	<i>Option 1</i>	<i>Option 1</i>
Complete LS 30A, 30B, and LS 40 or Stats 13	Complete LS 30A, LS 30B, and LS 40 or Stats 13	Complete LS 30A, LS 30B, and LS 40 or Stats 13
<i>Option 2</i>	<i>Option 2</i>	<i>Option 2</i>
Complete Math 3C, Stats 13 or 10, one additional math course (upper or lower division)	Complete Math 3B, Math 3C, Stats 13 or 10	Complete Math 3A, Math 3B, Math 3C and Stats 13 or 10
<i>Option 3</i>	<i>Option 3</i>	<i>Option 3</i>
Complete Math 32A, Stats 13 or 10, one additional math course (upper or lower division)	Complete Math 32A, Stats 13 or 10, one additional math course (upper or lower division)	Complete Math 31A/31AL, Math 31B, Math 32A, and Stats 13 or 10

All students may choose to complete LS 30A, 30B and LS 40 or Stats 13, regardless of their AP Calculus score.