

B.S. in BIOLOGICAL SCIENCES (AY 2023-2024)
CONCENTRATION IN ECOLOGY AND EVOLUTIONARY BIOLOGY (75 units)

CORE REQUIREMENTS (39 units)

Lower Division BIOL Courses	Units	Offered	Prerequisites
BIOL 140A Principles of Cell & Molecular Biology	5	Fall & Spring	N/A
BIOL 140B Principles of Organismal Biology	5	Fall & Spring	BIOL 140A*
subtotal	10		
Lower Div Physical Science & Math Courses	Units	Offered	Prerequisites
CHEM 111 & 111L Gen Chem I (Lec) & Lab	5	Fall & Spring	MATH 120(25) or 130 (co-)
CHEM 112 General Chemistry II	5	Fall & Spring	CHEM 111 & 111L*
MATH 130 Calculus I	4	Fall & Spring	MATH 120
PHYS 125, 126 Principles of Physics I & II	8	Fall & Spring	MATH 120
subtotal	22		
Upper Division BIOL Courses	Units	Offered	Prerequisites
BIOL 310 Genetic Analysis I	4	Fall & Spring	BIOL 140B*
BIOL 320 Evolutionary Biology	3	Fall & Spring	BIOL 310*
subtotal	7		

CONCENTRATION REQUIREMENTS (36 units)

Upper Division BIOL Courses	Units	Offered	Prerequisites
BIOL 350 Ecology	4	Fall & Spring	BIOL 140B*
BIOL 370 Animal Physiology	4	Fall & Spring	BIOL 140B*, CHEM 112
BIOL 460 EEB Undergraduate Seminar	2	Spring	BIOL 350
BIOL 469 Conservation Biology**	4	Spring	BIOL 350
subtotal	14		
Upper Division Physical Science Courses	Units	Offered	Prerequisites
CHEM 230 Survey of Organic Chemistry	5	Fall	CHEM 112*
CHEM 340 Survey of Biochemistry	3	Fall & Spring	CHEM 230* or 332*
STATS 303 Statistical Methods in Biology	3	Fall & Spring	GE Area B4
subtotal	11		

Upper Division Electives (select at least 11 units from the list of courses below)

(Note: BIOL 490 Independent Study, BIOL 493 Directed Research in Biology, BIOL 498 Internship or a combination of two or more of these courses may be used for a maximum total of 3 units of elective credit. Enrollment in these courses requires approval by a faculty member and the Department Chair)..

Elective Courses	Units	Offered	Prerequisites
BIOL 315 Marine Biology	3	Intermittently	BIOL 310
BIOL 352 Biogeography	4	Fall (every other yr)	BIOL 350
BIOL 356 Freshwater Environments	4	Intermittently	BIOL 350
BIOL 368 Fungi of California	3	Fall (every other yr)	BIOL 140B
BIOL 415 PCR. Sequencing & Fragment Analysis	3	Fall	BIOL 310
BIOL 424 Bioinformatics	3	Fall	BIOL 310
BIOL 454 Biology of Fungi	4	Fall (every other yr)	BIOL 140B
BIOL 458 Animal Behavior	4	Intermittently	BIOL 140B
BIOL 468 Molecular Ecology	4	Intermittently	BIOL 320
BIOL 475 Global Change Biology	4	Spring	BIOL 370
BIOL 488 Environmental Physiology	3	Fall	BIOL 370

* Must pass this prerequisite course with a C- or better to move onto the next course.

**Capstone course for the Ecology and Evolutionary Biology concentration.

- FOR EEB CONCENTRATION & GE ADVISING: Dr. Erica Wildy (erica.wildy@csueastbay.edu), Dr. Brian Perry (brian.perry@csueastbay.edu), Mr. Avel Perez (avel.perez@csueastbay.edu), and Ms. Kelley Gove (kelley.gove@csueastbay.edu).
- FOR MAJOR CHECKS (Graduation): Mr. Avel Perez (avel.perez@csueastbay.edu) or cscistudentcenter@csueastbay.edu

DEGREE: B.S. in Biological Sciences (AY 2023-24)**CONCENTRATION:** Ecology and Evolutionary Biology

Graduation Semester: _____

Name (Last, First): _____

Net ID: _____

CORE REQUIREMENTS

Course	Grade	Semester & Year	Units	College/University Where Equivalent Course Was Taken	Equivalent Course Number	TES Verification
CHEM 111	3	.....	.....	.....
CHEM 111L	2	.....	.....	.....
CHEM 112	5	.....	.....	.....
PHYS 125	4	.....	.....	.....
PHYS 126	4	.....	.....	.....
MATH 130	4	.....	.....	.....
BIOL 140A	5	.....	.....	.....
BIOL 140B	5	.....	.....	.....
BIOL 310	4	.....	.....	.....
BIOL 320	3	.....	.....	.....

CONCENTRATION REQUIREMENTS

Course	Grade	Semester & Year	Units	College/University Where Equivalent Course Was Taken	Equivalent Course Number	TES Verification
CHEM 230	5	.....	.....	.....
CHEM 340	3	.....	.....	.....
STATS 303	3	.....	.....	.....
BIOL 350	4	.....	.....	.....
BIOL 370	4	.....	.....	.....
BIOL 460	4	.....	.....	.....
BIOL 469	4	.....	.....	.....

ELECTIVES (at least 11 units from the courses below)

Course	Grade	Semester & Year	Units	College/University Where Equivalent Course Was Taken	Equivalent Course Number	TES Verification
BIOL 315	3	.....	.....	.....
BIOL 352	4	.....	.....	.....
BIOL 368	3	.....	.....	.....
BIOL 415	3	.....	.....	.....
BIOL 424	3	.....	.....	.....
BIOL 454	4	.....	.....	.....
BIOL 458	4	.....	.....	.....
BIOL 466	4	.....	.....	.....
BIOL 468	4	.....	.....	.....
BIOL 475	4	.....	.....	.....
BIOL 490
BIOL 493
BIOL 498

Total Units for Concentration: (75 min.) _____

Note: A C- or better required in all courses that serve as a prerequisite.