

B.S. in BIOLOGICAL SCIENCES
CONCENTRATION IN ECOLOGY AND EVOLUTIONARY BIOLOGY (AY 2020-2021)

Core Requirements (39 units)*Lower Division Biology Courses* *Units*

BIOL 140A Principles of Cell & Molecular Biology	5
BIOL 140B Principles of Organismal Biology	5
subtotal	10

Lower Division Physical Science and Math Courses *Units*

CHEM 111, 112 General Chemistry I & II (5, 5)	10
MATH 130 Calculus I	4
PHYS 125, 126 Principles of Physics I & II (4, 4)	8
subtotal	22

Upper Division Biology Courses *Units*

BIOL 310 Genetic Analysis I	4
BIOL 320 Evolutionary Biology	3
subtotal	7

Concentration Requirements (36 units)*Upper Division Biology Courses* *Units*

BIOL 350 Ecology	4
BIOL 370 Animal Physiology	4
BIOL 460 EEB Undergraduate Seminar	2
BIOL 469 Conservation Biology*	4
subtotal	14

Physical Science and Math Courses *Units*

CHEM 230 Survey of Organic Chemistry	5
CHEM 340 Survey of Biochemistry	3
STATS 303 Statistical Methods in Biology	3
subtotal	11

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

Note: BIOL 490 Independent Study and/or BIOL 498 Internship 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.

<u>Course</u>	<u>Units</u>	<u>Offered</u>	<u>Prerequisites</u>
BIOL 315 Marine Biology	3	TBD	BIOL 310
BIOL 330 General Microbiology	5	Fall	BIOL 140B
BIOL 352 Biogeography	4	Fall (every other year)	BIOL 350
BIOL 368 Fungi of California	3	Fall (every other year)	BIOL 140B
BIOL 410 Genetic Analysis II	3	Spring	BIOL 310
BIOL 415 PCR and Sequencing	3	Fall	BIOL 310
BIOL 424 Bioinformatics	3	Fall	BIOL 310
BIOL 433 Microbial Ecology	3	Spring	BIOL 330
BIOL 444 Medical Entomology	3	Fall (every other year)	BIOL 140B
BIOL 454 Biology of Fungi	4	Fall (every other year)	BIOL 140B
BIOL 455 Vertebrate Biology	4	TBD	BIOL 140B
BIOL 458 Animal Behavior	4	Spring (every other year)	BIOL 140B
BIOL 466 Population Biology	4	Spring (every other year)	BIOL 320
BIOL 468 Molecular Ecology	4	TBD	BIOL 320
BIOL 475 Global Change Biology	4	Spring	BIOL 370

Courses offered at Moss Landing Marine Laboratories (<https://www.mlml.calstate.edu>) may also be used to satisfy the electives unit requirement. Enrollment in these courses requires approval by a faculty member and the Dept. Chair.

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

FOR GENERAL MAJOR ADVISING: <http://www.csueastbay.edu/csci-ssc/index.html>, cscistudentcenter@csueastbay.edu

FOR EEB-SPECIFIC MAJOR ADVISING: Dr. Brian Perry, brian.perry@csueastbay.edu, Dr. Erica Wildy, erica.wildy@csueastbay.edu

DEGREE: B.S. in Biological Sciences (AY 2020-21)
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	Assist.org Verification
CHEM 111	5	.....	.....	.....
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

CHEM 230	.....	.....	5	.....	.....	.....
CHEM 340	.....	.....	3	.....	.....	.....
STATS 303	.....	.....	3	.....	.....	.....
BIOL 350	.....	.....	4	.....	.....	.....
BIOL 370	.....	.....	4	.....	.....	.....
BIOL 460	.....	.....	2	.....	.....	.....
BIOL 469	.....	.....	4	.....	.....	.....

ELECTIVES (at least 11 units from the courses below)

BIOL 315	.....	.....	3	.....	.....	.....
BIOL 330	.....	.....	5	.....	.....	.....
BIOL 352	.....	.....	4	.....	.....	.....
BIOL 368	.....	.....	3	.....	.....	.....
BIOL 410	.....	.....	4	.....	.....	.....
BIOL 415	.....	.....	3	.....	.....	.....
BIOL 424	.....	.....	3	.....	.....	.....
BIOL 444	.....	.....	4	.....	.....	.....
BIOL 454	.....	.....	4	.....	.....	.....
BIOL 455	.....	.....	4	.....	.....	.....
BIOL 458	.....	.....	4	.....	.....	.....
BIOL 466	.....	.....	4	.....	.....	.....
BIOL 468	.....	.....	4	.....	.....	.....
BIOL 475	.....	.....	4	.....	.....	.....

Total Units for Concentration: (75 min.) _____

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

Advisor Signature: _____

Date: _____

Dept. Chair Signature: _____

Date: _____