

B.S. in BIOLOGICAL SCIENCES (AY 2025-2026)
CONCENTRATION IN ECOLOGY AND EVOLUTIONARY BIOLOGY (75 units)

CORE COURSE REQUIREMENTS (39 units)

LOWER DIVISION BIOLOGY	UNITS	OFFERED	PREREQUISITES
BIOL 140A <i>Principles of Cell & Molecular Biology</i>	5	Fall & Spring	N/A
BIOL 140B <i>Principles of Organismal Biology</i>	5	Fall & Spring	BIOL 140A*
subtotal	10		
LOWER DIVISION PHYSICAL SCIENCE & MATH	UNITS	OFFERED	PREREQUISITES
CHEM 111 & 111L <i>General Chemistry I (Lec & Lab)</i>	5	Fall & Spring	MATH 120(25) or 130 (co-)
CHEM 112 & 112L <i>General Chemistry II (Lec & Lab)</i>	5	Fall & Spring	CHEM 111* & 111L*
MATH 130 <i>Calculus I</i>	4	Fall & Spring	MATH 120 or MATH 125
PHYS 125 <i>Principles of Physics I</i>	4	Fall & Spring	MATH 120 or MATH 125
PHYS 126 <i>Principles of Physics II</i>	4	Fall & Spring	PHYS 125
subtotal	22		
UPPER DIVISION CORE BIOLOGY COURSES	UNITS	OFFERED	PREREQUISITES
BIOL 310 <i>Genetic Analysis I</i>	4	Fall & Spring	BIOL 140B*
BIOL 320 <i>Evolutionary Biology</i>	3	Fall & Spring	BIOL 310*
subtotal	7		

CONCENTRATION COURSE REQUIREMENTS (20 units)

UPPER DIVISION BIOLOGY	UNITS	OFFERED	PREREQUISITES
BIOL 350 <i>Ecology</i>	4	Fall	BIOL 140B*, STAT 303
BIOL 370 <i>Animal Physiology</i>	4	Fall & Spring	BIOL 140B*, CHEM 112 & 112L*
BIOL 469 <i>Conservation Biology**</i>	4	Spring	BIOL 350*
subtotal	12		
UPPER DIVISION PHYSICAL SCIENCE & STATS	UNITS	OFFERED	PREREQUISITES
CHEM 230 <i>Survey of Organic Chemistry</i>	5	Fall	CHEM 112* & 112L*
STAT 303 <i>Statistical Methods in Biology</i>	3	Fall & Spring	completion of GE Area B4 or 2
subtotal	8		

Note: Depending on the professional objective, students may opt to take **CHEM 331 & 332** rather than CHEM 230 and **CHEM 441 & 442** rather than CHEM 340. Please consult an advisor if you would like to make these substitutes.

ELECTIVES (16 units)

COURSES (Select a min of 16 units from the list below)	UNITS	OFFERED	PREREQUISITES
BIOL 315 <i>Marine Biology</i>	3	Intermittently	BIOL 310*
BIOL 352 <i>Biogeography</i>	4	Fall (every other yr)	BIOL 350*
BIOL 368 <i>Fungi of California</i>	3	Fall (every other yr)	BIOL 140B*
BIOL 410 <i>Genetic Analysis II</i>	3	Spring	BIOL 310
BIOL 415 <i>PCR, Sequencing & Fragment Analysis</i>	3	Fall	BIOL 310*
BIOL 424 <i>Bioinformatics</i>	3	Fall	BIOL 310*
BIOL 433 <i>Microbial Ecology</i>	3	Spring	BIOL 330*
BIOL 452 <i>Plant Biology</i>	4	Intermittently	BIOL 320*
BIOL 454 <i>Biology of Fungi</i>	4	Intermittently	BIOL 140B*
BIOL 456 <i>Ornithology</i>	4	Intermittently	BIOL 140B*
BIOL 466 <i>Population Biology</i>	4	Spring	BIOL 320*
BIOL 468 <i>Molecular Ecology</i>	4	Intermittently	BIOL 320*
BIOL 470 <i>Animal Senses</i>	4	Fall (every other yr)	BIOL 370*
BIOL 475 <i>Global Change Biology</i>	4	Spring	BIOL 370*
BIOL 488 <i>Environmental Physiology</i>	3	Fall	BIOL 370*

Note: BIOL 490 *Independent Study*, BIOL 493 *Directed Research in Biology*, BIOL 498 *Internship* or a combination of more than one of these courses may be used for a maximum of 3 total units of elective credit.

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

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

• **EEB Concentration & GE Advisors:** Mr. Avel Perez or Dr. Kelley Gove (cscistudentcenter@csueastbay.edu)

• **EEB Career & Course Sub Advisors:** Dr. Brian Perry (brian.perry@csueastbay.edu)

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	_____	_____	3	_____	_____	_____
CHEM 112L	_____	_____	2	_____	_____	_____
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	_____	_____	_____
STAT 303	_____	_____	3	_____	_____	_____
BIOL 350	_____	_____	4	_____	_____	_____
BIOL 370	_____	_____	4	_____	_____	_____
BIOL 469	_____	_____	4	_____	_____	_____

ELECTIVES *(At least 16 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 410	_____	_____	3	_____	_____	_____
BIOL 415	_____	_____	3	_____	_____	_____
BIOL 424	_____	_____	3	_____	_____	_____
BIOL 433	_____	_____	3	_____	_____	_____
BIOL 452	_____	_____	4	_____	_____	_____
BIOL 454	_____	_____	4	_____	_____	_____
BIOL 456	_____	_____	4	_____	_____	_____
BIOL 466	_____	_____	4	_____	_____	_____
BIOL 468	_____	_____	4	_____	_____	_____
BIOL 470	_____	_____	4	_____	_____	_____
BIOL 475	_____	_____	4	_____	_____	_____
BIOL 488	_____	_____	3	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

Total Units for Concentration (75 min.): _____

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