

B.S. in BIOLOGICAL SCIENCES (AY 2026-2027)
CONCENTRATION IN ECOLOGY AND EVOLUTIONARY BIOLOGY (75 units)

CORE COURSE REQUIREMENTS (39 units)

LOWER DIVISION COURSEWORK	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
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	32		
UPPER DIVISION COURSEWORK	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 (36 units)

LOWER & UPPER DIVISION COURSES	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
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	20		

Notes: 1) Depending on your professional objective, you may opt to take **CHEM 331 & 332** rather than CHEM 230 and either **CHEM 340 or CHEM 441 &/or CHEM 442**. 2) If you are following a catalog year earlier than 2025-2026, you are required to take **CHEM 340** with **CHEM 441** serving as a suitable substitute. Please consult an advisor if you have any questions about these issues..

ELECTIVES (Select a min of 16 units from the list below)	UNITS	OFFERED	PREREQUISITES
BIOL 315 <i>Marine Biology</i>	4	Intermittently	BIOL 140B
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 415 <i>PCR, Sequencing & Fragment Analysis</i>	3	Fall	BIOL 310
BIOL 433 <i>Microbial Ecology</i>	3	Spring	BIOL 330
BIOL 447 <i>Zoonoses & Emerging Infectious Diseases</i>	3	Fall	BIOL 140B (BIOL 320 recomm.)
BIOL 452 <i>Plant Biology</i>	4	Intermittently	BIOL 320
BIOL 454 <i>Biology of Fungi</i>	4	Fall (every other yr)	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 310, BIOL 320
BIOL 470 <i>Animal Senses</i>	4	Intermittently	BIOL 370
BIOL 475 <i>Global Change Biology</i>	4	Spring	BIOL 370
BIOL 488 <i>Environmental Physiology</i>	3	Fall	BIOL 370
BIOL 497 <i>Issues in Biological Science</i>	2	Fall	BIOL 140B
CHEM 340 <i>Survey of Biochemistry</i>	3	Fall & Spring	CHEM 230 or CHEM 332
CHEM 441 <i>General Biochemistry I</i>	4	Fall & Spring	CHEM 332
subtotal	16		

Notes: 1) **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. 2) If you are following a **major catalog year of 2025-2026 or later that does not have biochemistry as a requirement**, you may opt to take **CHEM 340 or CHEM 441 as an elective course**.

*Must pass all courses with a C- or better.

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

- **EEB Concentration & GE Advisors:** Mr. Avel Perez or Dr. Kelley Gove (cscistudentcenter@csueastbay.edu)
- **EEB Career Advisors:** Dr. Brian Perry (brian.perry@csueastbay.edu), Dr. Erica Wildy (erica.wildy@csueastbay.edu), Dr. Jenny Hazlehurst (jenny.hazlehurst@csueastbay.edu), and Dr. Tommy Jenkinson (thomas.jenkinson@csueastbay.edu)

CONCENTRATION: Ecology & Evolutionary Biology

Graduation Semester: _____

Name (Last, First): _____

Net ID: _____

CORE REQUIREMENTS – LOWER DIVISION COURSEWORK

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	_____	_____	_____

CORE REQUIREMENTS – UPPER DIVISION COURSEWORK

Course	Grade	Semester & Year	Units	College/University Where Equivalent Course Was Taken	Equivalent Course Number	TES Verification
BIOL 310	_____	_____	4	_____	_____	_____
BIOL 320	_____	_____	3	_____	_____	_____

CONCENTRATION REQUIREMENTS – UPPER & LOWER DIVISION COURSEWORK

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	_____	_____	_____

CONCENTRATION REQUIREMENTS - ELECTIVES *(At least 16 units; Choices are on the reverse side of this form)*

Course	Grade	Semester & Year	Units	College/University Where Equivalent Course Was Taken	Equivalent Course Number	TES Verification
BIOL _____	_____	_____	_____	_____	_____	_____
BIOL _____	_____	_____	_____	_____	_____	_____
BIOL _____	_____	_____	_____	_____	_____	_____
BIOL _____	_____	_____	_____	_____	_____	_____
BIOL _____	_____	_____	_____	_____	_____	_____
BIOL _____	_____	_____	_____	_____	_____	_____
CHEM 340	_____	_____	_____	_____	_____	_____
CHEM 441	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

Total Units for Concentration (75 min.): _____

Note: A C- or better required in all courses used toward the major.