B.S. in BIOLOGICAL SCIENCES (AY 2024-2025)
CONCENTRATION IN ECOLOGY AND EVOLUTIONARY BIOLOGY (78 units)

CORE COURSE REQUIREMENTS (39 units)

LOWER DIVISION BIOLOGY	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 DIVISION PHYSICAL SCIENCE & MATH	**UNITS**	**OFFERED**	**PREREQUISITES**
CHEM 111 & 111L *General Chemistry I (Lec & Lab)*	5	Fall & Spring	MATH 120(25) or 130 (co-)
CHEM 112 & 112L *General Chemistry II (Lec & Lab)*	5	Fall & Spring	CHEM 111* & 111L*
MATH 130 *Calculus I*	4	Fall & Spring	MATH 120 or MATH 125
PHYS 125 *Principles of Physics I*	4	Fall & Spring	MATH 120 or MATH 125
PHYS 126 *Principles of Physics II*	4	Fall & Spring	PHYS 125
subtotal	***22***		
UPPER DIVISION BIOLOGY	**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 COURSE REQUIREMENTS (39 units)

UPPER DIVISION BIOLOGY	UNITS	OFFERED	PREREQUISITES
BIOL 350 *Ecology*	4	Fall	BIOL 140B*, STAT 303
BIOL 370 *Animal Physiology*	4	Fall & Spring	BIOL 140B*, CHEM 112*
BIOL 469 *Conservation Biology***	4	Spring	BIOL 350*
subtotal	***15***		
UPPER DIVISION PHYSICAL SCIENCE & STATS	**UNITS**	**OFFERED**	**PREREQUISITES**
CHEM 230 *Survey of Organic Chemistry*	5	Fall	CHEM 112*
STAT 303 *Statistical Methods in Biology*	3	Fall & Spring	GE Area B4
subtotal	***8***		

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

ELECTIVES ***(Select 16 units from the list below)***	**UNITS**	**OFFERED**	**PREREQUISITES**
BIOL 315 *Marine Biology*	3	Intermittently	BIOL 310*
BIOL 352 *Biogeography*	4	Fall *(every other yr)*	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 433 *Microbial Ecology*	3	Spring	BIOL 330*
BIOL 452 *Plant Biology*	4	Intermittently	BIOL 320*
BIOL 454 *Biology of Fungi*	4	Fall *(every other yr)*	BIOL 140B*
BIOL 456 *Ornithology*	4	Intermittently	BIOL 140B*
BIOL 466 *Population Biology*	4	Spring	BIOL 320*
BIOL 468 *Molecular Ecology*	4	Intermittently	BIOL 320*
BIOL 470 *Animal Senses*	4	Fall *(every other yr)*	BIOL 370*
BIOL 475 *Global Change Biology*	4	Spring	BIOL 370*
BIOL 488 *Environmental Physiology*	3	Fall	BIOL 370*

***Note**: **BIOL 490 Independent Study, BIOL 493 Directed Research in Biology**, **BIOL 498 Internship** or a combination of 2 or more 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.*

- **Freshman/Sophomore EEB Concentration & GE Advisor:** Ms. Joanna Cady-Aguilar (joanna.cadyaguilar@csueastbay.edu)
- **Junior/Senior 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) & Dr. Erica Wildy (erica.wildy@csueastbay.edu)

DEGREE: B.S. in Biological Sciences (AY 2024-25)
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 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 (78 min.): _____ Note: A C- or better required in all courses that serve as a prerequisite.