

Name: _____

Date: _____

(Quarter offered: F=Fall, W=Winter, S=Spring, (-) = Not offered this year) ID#: _____

NOTES: Courses appearing in more than one category can fulfill only one requirement.

All courses on check list MUST be taken for a letter grade.

LOWER DIVISION REQUIREMENTS

Calculus: MATH 11A (FWS) ____ + 11B (FWS) ____
OR MATH 19A (FWS) ____ + 19B (FWS) ____

Gen Chem: CHEM 1A (FWS) ____ + 1B (FWS) ____ + 1C/N (FWS) ____

Biology: BIOL 20A (FWS) ____ + BIOE 20B (FWS) ____ + BIOE 20C (FWS) ____

Physics: PHYS 7A/6L (F) ____ + 7B (W) ____
OR PHYS 6A/L (FWS) ____ + 6B (WS) ____ **OR** PHYS 6A/L (FWS) ____ + 6C (FS) ____

Biostatistics: AMS 7/L (FWS) ____

UPPER DIVISION REQUIREMENTS (11 total including 2 lab/field courses: _____)

Genetics: BIOL 105 (FWS) ____

Evolution: BIOE 109 (FWS) ____

Ecology: ONE of the following...
 BIOE 107 Ecology (FWS) ____
 BIOE 108 Marine Ecology (W) ____

Marine: ONE from the following...
 BIOE 120/L Marine Botany (S) ____
 BIOE 122/L Invertebrates (W) ____
 BIOE 127/L Ichthyology (W18) ____
 BIOE 129/L Marine Mammals (S) (lab optional) ____

Marine Environment: ONE from the following...
 OCEA 101 Marine Environment (W) ____
 OCEA 130 Biological Oceanography (S) ____

<p>Major Qualification Policy:</p> <ol style="list-style-type: none"> 1) CHEM 1A 2) CHEM 1B 3) BIOL 20A 4) BIOE 20B 5) BIOE 20C <p>Must complete all six courses with a "C" or better; no more than 1 non-passing grade in the first 5 qual courses is accepted.</p> <ol style="list-style-type: none"> 6) MATH 11A or MATH 19A

Topical Electives: THREE from the following...

- | | |
|---|---|
| BIOE 108 Marine Ecology (W) ____ | BIOE 163/L Ecology of Reefs, Mangroves, & Seagrasses (W) ____ |
| BIOE 120/L Marine Botany (S) ____ | BIOE 165 Marine Conservation Biology (F) ____ |
| BIOE 122/L Invertebrates (W) ____ | EART 102 Marine Geology (-) ____ |
| BIOE 127/L Ichthyology (W18) ____ | EART 105 Coastal Geology (F) ____ |
| BIOE 128L Large Marine Vertebrates Field (S) ____ | OCEA 118 Marine Microbial Ecology (S) ____ |
| BIOE 129/L Marine Mammals (S) (lab optional) ____ | OCEA 130 Biological Oceanography (S) ____ |
| BIOE 155 Freshwater Ecology (F) ____ | Field Quarter: |
| BIOE 155L Freshwater Ecology Lab (S) ____ | ____ BIOE 159ABCD Marine Ecology Field Quarter (W18)* |
| BIOE 158L Marine Ecology Lab (-) ____ | *See course equivalencies on reverse |
| BIOE 161 Kelp Forest Ecology (F17) ____ | |
| BIOE 161L Kelp Forest Ecology Lab (F17) ____ | |

THREE additional EEB General Electives: _____

DC: Completion of TWO *approved* BIOE lab/field courses: _____

Note: DC courses must be taken at UCSC. Review approved courses here:
<https://undergrad.pbsci.ucsc.edu/eeb/completing-the-major/dc.html>

COMPREHENSIVE REQUIREMENT (Senior Exit Requirement): _____

For details see:
<http://undergrad.pbsci.ucsc.edu/eeb/completing-the-major/senior-exit.html>

Ecology & Evolutionary Biology GENERAL ELECTIVES

2017-18

(Quarter offered: F=Fall, W=Winter, S=Spring, (-) = Not offered this year)

NOTE: Courses appearing in more than one category can fulfill only one requirement.

BIOE 107 Ecology [Marine Biology only] (FWS) ____	BIOL 100 Biochemistry (FW)____
BIOE 108 Marine Ecology (W) ____	BIOL 101/L Molecular Biology (WS) ____
BIOE 112/L Ornithology (F17) ____	BIOL 110 Cell Biology (FS) ____
BIOE 114/L Herpetology (S18) ____	BIOL 115 Eukaryotic Molecular Biology (S)____
BIOE 117/L Systematic Botany of Flowering Plants (W) ____	BIOL 120 Developmental Biology (W) ____
BIOE 118 Plants and Society (S) ____	EART 100/L Vertebrate Paleontology (W) ____
BIOE 120/L Marine Botany (S) ____	EART 101/L Invertebrate Paleobiology (F) ____
BIOE 122/L Invertebrates (W) ____	EART 102 Marine Geology (-) ____
BIOE 124/L Mammalogy (F) ____	EART 105 Coastal Geology (F) ____
BIOE 125 Ecosystems of California (WS) ____	ECON 166A Game Theory and Applications I ____
BIOE 127/L Ichthyology (W18) ____	ECON 166B Game Theory and Applications II ____
BIOE 128L Large Marine Vertebrates Field (S) ____	*ENVS 104A/L Intro to Environmental Field Methods ____
BIOE 129/L Biology of Marine Mammals (lab optional) (S) ____	*ENVS 108 General Entomology ____
BIOE 131/L Animal Physiology (lab optional) (W) ____	*ENVS 115A/L GIS & Environmental Applications ____
BIOE 133/L Exercise Physiology (S18) ____	*ENVS 120 Conservation Biology ____
BIOE 134/L Comparative Vertebrate Anatomy (F) ____	*ENVS 122 Tropical Ecology & Conservation ____
BIOE 135/L Plant Physiology (F) ____	*ENVS 123 Animal Ecology & Conservation ____
BIOE 137/L Molecular Ecology (W) ____	*ENVS 125 Ecosystems of California ____
BIOE 140 Behavioral Ecology (F) ____	*ENVS 129 Integrated Pest Management ____
BIOE 141L Behavioral Ecology Field Course (W19) ____	*ENVS 130A/L Agroecology & Sustainable Agriculture ____
BIOE 145 Plant Ecology (F) ____	*ENVS 130B Principles of Sustainable Agriculture ____
BIOE 145L Field Methods Plant Ecology (-) ____	*ENVS 131 Insect Ecology ____
BIOE 147 Community Ecology (S) ____	*ENVS 160 Restoration Ecology ____
BIOE 148A Quantitative Ecology (-) ____	*ENVS 161A Soils & Plant Nutrition ____
BIOE 148B Quantitative Methods (W) ____	*ENVS 162 Plant Physiological Ecology ____
BIOE 149 Disease Ecology (S) ____	*ENVS 163 Plant Disease Ecology ____
BIOE 150 Ecological Field Methods (S18) ____	*ENVS 167 Freshwater & Wetland Ecology ____
BIOE 150L Ecological Field Methods Lab (S18) ____	*ENVS 168 Biochemistry & the Global Environment ____
BIOE 155 Freshwater Ecology (F) ____	METX 119 Microbiology (FS) ____
BIOE 155L Freshwater Ecology Lab (S) ____	METX 119L Microbiology Lab (FWS) ____
BIOE 158L Marine Ecology Lab (-) ____	OCEA 118 Marine Microbial Ecology (S) ____
BIOE 161 Kelp Forest Ecology (F17) ____	OCEA 130 Biological Oceanography (S) ____
BIOE 161L Kelp Forest Ecology Lab (F17) ____	*PSYC 123 Behavioral Neuroscience ____
BIOE 163/L Ecology of Reefs, Mangroves & Seagrasses (W) ____	
BIOE 165 Marine Conservation Biology (F)____	
BIOE 171 Disciplinary Communication for Biologists (S) ____	
BIOE 172/L Population Genetics (S) ____	

*Permission of instructor is required to enroll in these courses; be sure to check timing of offerings

Field Quarter Equivalencies:

- ____ BIOE 151ABCD Ecology & Conservation in Practice (-) = BIOE 150 + 150L + 1 EEB general elective
- ____ BIOE 153ABC Arctic Ecology (S18) = 1 Topical Elective + 2 EEB General Electives
- ____ BIOE 159ABCD Marine Ecology Field Quarter (W18) = BIOE 127/L + BIOE 108 + BIOE 158L
- ____ ENVS 107ABC Natural History Field Quarter (S18) = EEB General Elective (10 units)

One of the following may also be used as an upper-division general elective:

- BIOE 183W Undergraduate Research in EEB (2 units) (FWS) ____ + BIOE 183L, 193, or 195 (minimum 3 units) (FWS) ____
- ENVS 183 Environmental Studies Internship (5 unit) ____