

Name: _____

Date: _____

ID#: _____

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

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) ___**General Chemistry:** 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) ___**Ecology:** BIOE 107 Ecology (FWS) ___**Evolution:** BIOE 109 Evolution (FWS) ___**Plant Physiology:** ONE from the following...

BIOE 135/L Plant Physiology (F) ___

*ENVS 162 Plant Physiological Ecology ___

Botany: One from the following...

BIOE 117/L Systematic Botany (W) ___

BIOE 120/L Marine Botany (S) ___

Major Qualification Policy:

- 1) CHEM 1A
- 2) CHEM 1B
- 3) BIOL 20A
- 4) BIOE 20B
- 5) BIOE 20C

Must complete all six courses with a "C" or better; no more than 1 non-passing grade in the first 5 qualification courses is accepted.

- 6) MATH 11A or MATH 19A

Topical Electives: THREE from the following...

BIOE 117/L Systematic Botany (W) ___

BIOE 118 Plants and Society (S) ___

BIOE 120/L Marine Botany (S) ___

BIOE 125 Ecosystems of California (WS) ___

BIOE 135/L Plant Physiology (F) ___

BIOE 137/L Molecular Ecology (S) ___

BIOE 145 Plant Ecology (F) ___

BIOE 145L Field Methods in Plant Ecology (-) ___

BIOE 148A Quantitative Ecology (-) ___

BIOE 148B Quantitative Ecology (W) ___

BIOE 149 Disease Ecology (S) ___

BIOE 161 Kelp Forest Ecology (F17) ___

BIOE 161L Kelp Forest Ecology Lab (F17) ___

BIOL 100 Biochemistry (FW) ___

BIOL 101/L Molecular Biology (WS) ___

BIOL 110 Cell Biology (FS) ___

BIOL 115 Eukaryotic Molecular Biology (S) ___

*ENVS 104A/L Intro to Environmental Field Methods ___

*ENVS 129 Integrated Pest Management ___

*ENVS 130A/L Agroecology & Sustainable Agriculture ___

*ENVS 130B Principles of Sustainable Agriculture ___

*ENVS 131 Insect Ecology ___

*ENVS 160 Restoration Ecology ___

*ENVS 161A Soils & Plant Nutrition ___

*ENVS 162 Plant Physiological Ecology ___

*ENVS 163 Plant Disease Ecology ___

*Permission of instructor required to enroll in ENVS courses

Field Quarter:

___ BIOE 151ABCD Ecology & Conservation in Practice (-)**

___ BIOE 153ABC Arctic Ecology (S18)**

**See course equivalencies on reverse

THREE additional EEB General Electives: _____**DC** Completion of TWO *approved* BIOE lab/field courses: _____

Note: DC courses must be completed at UCSC. Review approved courses here:

<https://undergrad.pbsci.ucsc/eeb/completing-the-major/senior-exit.html>**COMPREHENSIVE REQUIREMENT** (Senior Exit Requirement): _____For more information see: <http://undergrad.pbsci.ucsc/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 (-) ____
BIOE 120/L Marine Botany (S) ____	EART 101/L Invertebrate Paleobiology (F) ____
BIOE 122/L Invertebrates (W) ____	EART 102 Marine Geology (S) ____
BIOE 125 Ecosystems of California (WS) ____	EART 105 Coastal Geology (F) ____
BIOE 124/L Mammalogy (F) ____	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, 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 (S) ____	*ENVS 129 Integrated Pest Management ____
BIOE 140 Behavioral Ecology (F) ____	*ENVS 130A/L Agroecology & Sustainable Agriculture ____
BIOE 141L Behavioral Ecology Field Course (W19) ____	*ENVS 130B Principles of Sustainable Agriculture ____
BIOE 145 Plant Ecology (F) ____	*ENVS 131 Insect Ecology ____
BIOE 145L Field Methods Plant Ecology (-) ____	*ENVS 160 Restoration Ecology ____
BIOE 147 Community Ecology (S) ____	*ENVS 161A Soils & Plant Nutrition ____
BIOE 148A Quantitative Ecology (-) ____	*ENVS 162 Plant Physiological Ecology ____
BIOE 148B Quantitative Methods (W) ____	*ENVS 163 Plant Disease Ecology ____
BIOE 149 Disease Ecology (S) ____	*ENVS 167 Freshwater & Wetland Ecology ____
BIOE 150 Ecological Field Methods (S18) ____	*ENVS 168 Biochemistry & the Global Environment ____
BIOE 150L Ecological Field Methods Lab (S18) ____	METX 119 Microbiology (FS) ____
BIOE 155 Freshwater Ecology (F) ____	METX 119L Microbiology Lab (FWS) ____
BIOE 155L Freshwater Ecology Lab (S) ____	OCEA 118 Marine Microbial Ecology (S) ____
BIOE 158L Marine Ecology Lab (-) ____	OCEA 130 Biological Oceanography (S) ____
BIOE 161 Kelp Forest Ecology (F17) ____	*PSYC 123 Behavioral Neuroscience ____
BIOE 161L Kelp Forest Ecology Lab (F17) ____	
BIOE 163/L Ecology of Reefs, Mangroves & Seagrasses (W) ____	
BIOE 165 Marine Conservation Biology (F) ____	
BIOE 171 Disciplinary Communications 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) = Topical Elective (5 units) + EEB General Elective (5 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) ____