

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.

INTRODUCTORY 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 6A/L (FWS) ___ + 6B (WS) ___ **OR** PHYS 6A/L (FWS) ___ + 6C (FS) ___

Biostatistics: AMS 7/L (FWS) ___

ADVANCED REQUIREMENTS (11 total including 2 lab/field courses)

Genetics: BIOL 105 (FWS) ___

Evolution: BIOE 109 (FW) ___

Ecology: ONE of the following...
 BIOE 107 Ecology (WS) ___
 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 (F15) ___
 BIOE 129/L Marine Mammals (S) (lab optional) ___

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

Topical Electives: THREE from the following...

BIOE 108 Marine Ecology (W) ___
 BIOE 120/L Marine Botany (S) ___
 BIOE 122/L Invertebrates (W) ___
 BIOE 127/L Ichthyology (F15) ___
 BIOE 128L Large Marine Vertebrates Field (S) ___
 BIOE 129/L Marine Mammals (S) (lab optional) ___
 BIOE 155 Freshwater Ecology (F) ___
 BIOE 155L Freshwater Ecology Lab (S) ___
 BIOE 158L Marine Ecology Lab (S16) ___
 BIOE 161 Kelp Forest Ecology (F15) ___
 BIOE 161L Kelp Forest Ecology Lab (F15) ___

BIOE 163/L Ecology of Reefs, Mangroves, & Seagrasses (W) ___
 BIOE 165 Marine Conservation Biology (F) ___
 BIOE 188 Intro to Science Writing (S) ___
 EART 102 Marine Geology (-) ___
 EART 105 Coastal Geology (S) ___
 OCEA 118 Marine Microbial Ecology (S) ___
 OCEA 130 Biological Oceanography (S) ___
 Field Quarter:
 ___ BIOE 159ABCD Marine Ecology Field Quarter (F14)**
 **See course equivalencies on reverse

Major Qualification Policy:

- CHEM 1A
- CHEM 1B
- BIOL 20A
- BIOE 20B *or* BIOE 20C
- MATH 11A *or* MATH 19A

Must complete all courses with a "C" or above; no more than 1 non-passing grade in qual courses is accepted.

THREE additional EEB General Electives: _____

Disciplinary Communication: Successful completion of: BIOE 107 Ecology **or** BIOE 108 Marine Ecology **or** BIOE 159A Ecology Field Quarter: Marine Ecology with Laboratory, **AND** BIOE 109 Evolution
 (Note: DC courses must be taken at UCSC.)

COMPREHENSIVE REQUIREMENT (Senior Exit Requirement): _____

For more information see:

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

Ecology & Evolutionary Biology GENERAL ELECTIVES

2014-15

(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] (WS) ____	BIOL 110 Cell Biology (FS) ____
BIOE 108 Marine Ecology (W) ____	BIOL 115 Eukaryotic Molecular Biology (W) ____
BIOE 112/L Ornithology (F15) ____	BIOL 120 Developmental Biology (WS) ____
BIOE 114/L Herpetology (S16) ____	CHEM 108A Organic Chemistry (FW) ____
BIOE 117/L Systematic Botany of Flowering Plants (W) ____	CHEM 108B Organic Chemistry (WS) ____
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 (-) ____
BIOE 124/L Mammalogy (F) ____	EART 105 Coastal Geology (S) ____
BIOE 127/L Ichthyology (F15) ____	ECON 166A Game Theory and Applications I ____
BIOE 128L Large Marine Vertebrates Field (WS) ____	ECON 166B Game Theory and Applications II ____
BIOE 129/L Biology of Marine Mammals (lab optional) (S) ____	*ENVS 104A/L Intro to Environmental Field Methods ____
BIOE 131/L Animal Physiology (lab optional) (W) ____	*ENVS 108 General Entomology ____
BIOE 133/L Exercise Physiology (-) ____	*ENVS 115A/L GIS & Environmental Applications ____
BIOE 134/L Comparative Vertebrate Anatomy (F) ____	*ENVS 120 Conservation Biology ____
BIOE 135/L Plant Physiology (W) ____	*ENVS 122 Tropical Ecology & Conservation ____
BIOE 137/L Molecular Ecology (W) ____	*ENVS 123 Animal Ecology & Conservation ____
BIOE 140 Behavioral Ecology (F) ____	*ENVS 129 Integrated Pest Management ____
BIOE 141L Behavioral Ecology Field Course (W15) ____	*ENVS 130A/L Agroecology & Sustainable Agriculture ____
BIOE 145 Plant Ecology (F) ____	*ENVS 130B Principles of Sustainable Agriculture ____
BIOE 145L Field Methods Plant Ecology (F) ____	*ENVS 131 Insect Ecology ____
BIOE 147 Community Ecology (S) ____	*ENVS 160 Restoration Ecology ____
BIOE 148 Quantitative Ecology (-) ____	*ENVS 161A Soils & Plant Nutrition ____
BIOE 149 Disease Ecology (S) ____	*ENVS 162 Plant Physiological Ecology ____
BIOE 150 Ecological Field Methods (S15) ____	*ENVS 163 Plant Disease Ecology ____
BIOE 150L Ecological Field Methods Lab (S15) ____	*ENVS 167 Freshwater & Wetland Ecology ____
BIOE 155 Freshwater Ecology (F) ____	*ENVS 168 Biochemistry & the Global Environment ____
BIOE 155L Freshwater Ecology Lab (S) ____	METX 119 Microbiology (FW) ____
BIOE 158L Marine Ecology Lab (S16) ____	METX 119L Microbiology Lab (FWS) ____
BIOE 161 Kelp Forest Ecology (F15) ____	OCEA 118 Marine Microbial Ecology (S) ____
BIOE 161L Kelp Forest Ecology Lab (F15) ____	OCEA 130 Biological Oceanography (S) ____
BIOE 163/L Ecology of Reefs, Mangroves & Seagrasses (W) ____	PSYC 123 Cognitive Neuroscience ____
BIOE 165 Marine Conservation Biology (F) ____	
BIOE 172/L Population Genetics (F14) ____	
BIOE 188 Intro to Science Writing (S) ____	
BIOL 100 Biochemistry (FW) ____	
BIOL 101 Molecular Biology (WS) ____ + BIOL 101L/100K Biochemistry Lab (WS) ____	

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

Field Quarter Equivalencies:

____ BIOE 151ABCD Ecology & Conservation in Practice (S16) = BIOE 150 + 150L + 1 EEB general elective

____ BIOE 159ABCD Marine Ecology Field Quarter (F14) = BIOE 127/L + BIOE 108 + BIOE 158L

____ ENVS 107ABC Natural History Field Quarter (S15) = 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) ____