

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.

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) ___

Ecology: BIOE 107 Ecology (WS) ___

Evolution: BIOE 109 Evolution (FW) ___

Plant Physiology: ONE from the following...
BIOE 135/L Plant Physiology (W) ___
*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:

- 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.

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 135/L Plant Physiology (W) ___
- BIOE 137/L Molecular Ecology (W) ___
- BIOE 145 Plant Ecology (F) ___
- BIOE 145L Field Methods in Plant Ecology (F) ___
- BIOE 148 Quantitative Ecology (-) ___
- BIOE 149 Disease Ecology (S) ___
- BIOE 188 Intro to Science Writing (S) ___
- BIOL 100 Biochemistry (FW) ___
- BIOL 101 Molecular Biology (WS) ___ + BIOL 101L/100K Biochemistry Lab (WS) ___
- BIOL 110 Cell Biology (FS) ___

- BIOL 115 Eukaryotic Molecular Biology (W) ___
- *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 (S16)**
 - ___ ENVS 107ABC Natural History Field Quarter (S15)***

**See course equivalencies on reverse

THREE additional EEB General Electives: _____

Disciplinary Communication: Successful completion of BIOE 107 Ecology and Bioe 109 Evolution
(Note: DC courses must be completed 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) ____
- BIOE 108 Marine Ecology (W) ____
- BIOE 112/L Ornithology (F15) ____
- BIOE 114/L Herpetology (S16) ____
- BIOE 117/L Systematic Botany of Flowering Plants (W) ____
- BIOE 118 Plants and Society (S) ____
- BIOE 120/L Marine Botany (S) ____
- BIOE 122/L Invertebrates (W) ____
- BIOE 124/L Mammalogy (F) ____
- BIOE 127/L Ichthyology (F15) ____
- BIOE 128L Large Marine Vertebrates Field (WS) ____
- BIOE 129/L Biology of Marine Mammals (lab optional) (S) ____
- BIOE 131/L Animal Physiology (lab optional) (W) ____
- BIOE 133/L Exercise Physiology (-) ____
- BIOE 134/L Comparative Vertebrate Anatomy (F) ____
- BIOE 135/L Plant Physiology (W) ____
- BIOE 137/L Molecular Ecology (W) ____
- BIOE 140 Behavioral Ecology (F) ____
- BIOE 141L Behavioral Ecology Field Course (W15) ____
- BIOE 145 Plant Ecology (F) ____
- BIOE 145L Field Methods Plant Ecology (F) ____
- BIOE 147 Community Ecology (S) ____
- BIOE 148 Quantitative Ecology (-) ____
- BIOE 149 Disease Ecology (S) ____
- BIOE 150 Ecological Field Methods (S15) ____
- BIOE 150L Ecological Field Methods Lab (S15) ____
- 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 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) ____
- BIOL 110 Cell Biology (FS) ____
- BIOL 115 Eukaryotic Molecular Biology (W) ____
- BIOL 120 Developmental Biology (WS) ____
- CHEM 108A Organic Chemistry (FW) ____
- CHEM 108B Organic Chemistry (WS) ____
- EART 100/L Vertebrate Paleontology (-) ____
- EART 101/L Invertebrate Paleobiology (F) ____
- EART 102 Marine Geology (-) ____
- EART 105 Coastal Geology (S) ____
- ECON 166A Game Theory and Applications I ____
- ECON 166B Game Theory and Applications II ____
- *ENVS 104A/L Intro to Environmental Field Methods ____
- *ENVS 108 General Entomology ____
- *ENVS 115A/L GIS & Environmental Applications ____
- *ENVS 120 Conservation Biology ____
- *ENVS 122 Tropical Ecology & Conservation ____
- *ENVS 123 Animal Ecology & Conservation ____
- *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 ____
- *ENVS 167 Freshwater & Wetland Ecology ____
- *ENVS 168 Biochemistry & the Global Environment ____
- METX 119 Microbiology (FW) ____
- METX 119L Microbiology Lab (FWS) ____
- OCEA 118 Marine Microbial Ecology (S) ____
- OCEA 130 Biological Oceanography (S) ____
- PSYC 123 Cognitive Neuroscience ____

*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) = 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) ____