

NAME \_\_\_\_\_

Date: \_\_\_\_\_

ID# \_\_\_\_\_

(Quarter offered: F= Fall Quarter, W= Winter Quarter, S= Spring Quarter)

**INTRODUCTORY REQUIREMENTS****Calculus:** MATH 11A (FWS) \_\_\_\_ + 11B (FWS) \_\_\_\_**OR** MATH 19A (FWS) \_\_\_\_ + 19B (FWS) \_\_\_\_**General Chemistry:** CHEM 1A (FW) \_\_\_\_ + 1B/M (WS) \_\_\_\_ + 1C/N (FS) \_\_\_\_**Biology:** BIOL 20A (FWS) \_\_\_\_ + BIOE 20B (FWS) \_\_\_\_ + BIOE 20C (FWS) \_\_\_\_**Physics:** PHYS 7A/L (W) \_\_\_\_ + 7B/M (S) \_\_\_\_**Biostatistics:** AMS 7/L (FW) \_\_\_\_**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 (F09) \_\_\_\_

BIOE 129/L Marine Mammals (S) \_\_\_\_

**Marine Environment:** ONE from the following...

BIOE 167 Ocean Ecosystems (not offered in 08-09) \_\_\_\_

BIOE 168 Biological Oceanography (S) \_\_\_\_

OCEA 101 Marine Environment (W) \_\_\_\_

**Topical Electives:** THREE from the following...

BIOE 108 Marine Ecology (W) \_\_\_\_

BIOE 120/L Marine Botany (S) \_\_\_\_

BIOE 122/L Invertebrates (W) \_\_\_\_

BIOE 124/L Marine Plankton (S09) \_\_\_\_

BIOE 125 Marine Microbial Ecology (not offered in 08-09) \_\_\_\_

BIOE 127/L Ichthyology (F09) \_\_\_\_

BIOE 129/L Marine Mammals (S) \_\_\_\_

BIOE 158L Marine Ecology Lab (S10) \_\_\_\_

BIOE 159ABCD Marine Ecology Field Quarter (F08) \_\_\_\_

BIOE 161 Kelp Forest Ecology (F09) \_\_\_\_

BIOE 161L Kelp Forest Ecology Lab (F09) \_\_\_\_

BIOE 163 Ecology of Reefs, Mangroves, &amp; Seagrasses (W) \_\_\_\_

BIOE 165 Marine Conservation Biology (F) \_\_\_\_

BIOE 167 Ocean Ecosystems not offered in 08-09) \_\_\_\_

BIOE 168 Biological Oceanography (S) \_\_\_\_

EART 102 Marine Geology

EART 105 Coastal Geology

EART 122 Paleocceanography

**EEB General Electives:** THREE additional electives chosen from the EEB General Elective list... \_\_\_\_\_

\*Courses appearing in more than one category can only fulfill one requirement

**COMPREHENSIVE REQUIREMENT** (Senior Exit Requirement): \_\_\_\_\_For more information see: <http://www.biology.ucsc.edu/advising/graduation/exit.html>**Note:** Be sure to check prerequisites and timing of offerings for electives taught outside of Biological Sciences

**EEB General Electives**

BIOL 100 Biochemistry (FS) \_\_\_\_  
BIOL 107/L Population Genetics (W 09) \_\_\_\_  
BIOL 110 Cell Biology (FS) \_\_\_\_  
BIOL 115 Eukaryotic Molecular Biology (WS) \_\_\_\_  
BIOL 119 Microbiology (FW) \_\_\_\_  
BIOL 119L Microbiology (FW) \_\_\_\_  
BIOL 120 Development (W) \_\_\_\_  
BIOL 120L Development Lab (S) \_\_\_\_  
BIOL 131/L Animal Physiology (W) \_\_\_\_  
BIOL 133/L Exercise Physiology (S 09) \_\_\_\_  
BIOL 136/L Invertebrates (W) \_\_\_\_  
BIOL 137/L Ichthyology (F 07) \_\_\_\_  
BIOL 138/L Vertebrates (W 09) \_\_\_\_  
BIOL 139/L Marine Mammals (S) \_\_\_\_  
BIOL 140 Behavioral Ecology (F) \_\_\_\_  
BIOL 141 Ecological Field Methods (S 09) \_\_\_\_  
BIOL 141L Ecological Field Methods Lab (S 09) \_\_\_\_  
BIOL 142 Ocean Ecosystems (W) \_\_\_\_  
BIOL 143/L Herpetology (S 08) \_\_\_\_  
BIOL 144/L Ornithology (F 07) \_\_\_\_  
BIOL 145L Behavioral Ecology Lab (W 09) \_\_\_\_  
BIOL 150 Ecology (WS) [marine elective only]  
BIOL 152 Community Ecology (S) \_\_\_\_  
BIOL 156/L Marine Plankton/Lab (S 09) \_\_\_\_  
BIOL 158 Ecology of Reefs (W 08) \_\_\_\_  
BIOL 159 Biological Oceanography (S) \_\_\_\_  
BIOL 160 Marine Ecology (W) \_\_\_\_  
BIOL 160L Marine Ecology Lab (S 08) \_\_\_\_  
BIOL 161 Kelp Forest Ecology (F 07) \_\_\_\_  
BIOL 161L Kelp Forest Ecology Lab (F 07) \_\_\_\_  
BIOL 162ABCD Marine Field Quarter (F 08) \_\_\_\_  
BIOL 163 Marine Conservation (F) \_\_\_\_  
BIOL 165ABCD Ecology & Conservation in Practice (S 08) \_\_\_\_  
BIOL 166 Plant Physiology (S) \_\_\_\_  
BIOL 168/L Systematic Botany (S) \_\_\_\_  
BIOL 169 Plant Ecology (F) \_\_\_\_  
BIOL 169L Field Methods Plant Ecology (F) \_\_\_\_  
BIOL 170/L Marine Botany (S) \_\_\_\_  
BIOL 171 Marine Microbial Ecology (S) \_\_\_\_  
CHEM 108A Organic Chemistry  
CHEM 108B Organic Chemistry  
EART 100 Vertebrate Paleontology  
EART 102 Marine Geology  
EART 105 Coastal Geology  
EART 122 Paleooceanography  
ENVS 104A Intro to Environmental Field Methods  
ENVS 108/L 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/L Insect Ecology  
ENVS 138/L Field Ethnobotany  
ENVS 160 Restoration Ecology  
ENVS 161A/L Soils & Plant Nutrition  
ENVS 162 Plant Physiological Ecology  
ENVS 163/L Plant Disease Ecology  
ENVS 167 Freshwater & Wetland Ecology  
ENVS 168 Biochemistry & the Global Environment  
PSYC 123 Behavioral Neuroscience

**Field Quarter Equivalencies:**

BIOL 162ABCD Marine Ecology Field Quarter = BIOL 137/L + BIOL 160 + BIOL 160L  
BIOL 165ABCD Ecology & Conservation in Practice = BIOL 141 + BIOL 141L + ENVS

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

BIOL 183L Undergraduate Research in EEB  
BIOL 188AB Supervised Teaching (4 units)  
BIOL 195 Senior Thesis  
BIOL 198 Independent Field Study  
BIOL 199 Tutorial  
ENVS 183 Environmental Studies Internship

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