BIOLOGY B.S. 2017-2018

Name: ___________________________ Date: ______________
ID#: ___________________________

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

NOTE: ALL courses on checklist 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) ___ + BIOL 20L* (FWS) ___
*Limited enrollment capacity for 2017-2018

Organic Chemistry: CHEM 8A/L (FW) ____ + 8B (WS) ___

Statistics: AMS 5 (FWS) ___ OR 7/L (FWS) ___

Physics: PHYS 6A/L (FWS) ___ + 6B (WS) ___ OR PHYS 6A/L (FWS) ___ + 6C (FS) ___
OR PHYS 7A*(F) ___ + 7B (W) ___ + 6L (FWS) ___ *Concurrent enrollment with PHYS 6L required
Note: PHYS 7A/B and 6L will not satisfy prerequisites for admission to most medical schools

UPPER DIVISION REQUIREMENTS

(9 courses total; including 2 labs: __________   __________)

Biochemistry & Molecular Biology

Biology: BIOL 100 (FW) ___ + BIOL 101 (WS) ___
OR
BIOC 100A (F) ___ + BIOL 100B (W) ___ + BIOL 100C (S) ___

Molecular Lab: BIOL 101L (WS) ___
*Students who complete BIOC 100ABC+ BIOL 101L have met the biochemistry & molecular biology/lab requirements.
In addition, BIOC 100C may be used to satisfy one lecture elective.

Genetics: BIOL 105 (FWS) ___

Ecology: BIOE 107 (FWS) ___

Evolution: BIOE 109 (FWS) ___

Cell Biology: BIOL 110 (FS) ___

Electives: Students must complete three additional upper-division biology electives (5-7 credits each) chosen from Biological Sciences-EEB courses (BIOE) or Biological Sciences-MCDB courses (BIOL) or specific BIOC, METX courses. See list of course options on reverse:
(Note that only some courses fulfill the DC requirement)

DISCIPLINARY COMMUNICATION REQUIREMENT (DC)
Satisfied by successful completion of two BIOE courses or one 5-credit BIOL lab. See reverse. This requirement MUST be completed at UCSC.
The Academic Advising Report may not reflect current DC requirements. Check-in with a MCD Biology adviser about fulfilling this requirement.

COMPREHENSIVE REQUIREMENT (Senior Exit Requirement):
Satisfied by successful completion of any upper-division BIOE or BIOL lab course identified with an "L"
http://undergrad.pbsci.ucsc.edu/biology/completing-the-major/senior-exit.html

*Course offerings are subject to change.
Please refer to course offerings for updates:
https://undergrad.pbsci.ucsc.edu/enrollment/biol/catalog.php

Qualification Policy:
Complete CHEM 1A, CHEM 1B, CHEM 1C, BIOL 20A, BIOL 20L, and BIOE 20B with grades of C or better. No more than one non-passing grade in the qualification courses is accepted. All qualification courses must be completed by the 6th quarter deadline.
NOTE: ALL courses on checklist MUST be taken for a letter grade

Electives

BIOE 108 Marine Ecology* (W) ___
BIOE 112/L Ornithology (F) ___
BIOE 114/L Herpetology* (S) ___
BIOE 117/L Systematic Botany of Flowering Plants* (W) ___
BIOE 120/L Marine Botany* (S) ___
BIOE 122/L Invertebrates* (W) ___
BIOE 124/L Mammalogy (F) ___
BIOE 127/L Ichthyology* (W) ___
BIOE 129/L Marine Mammals (lab optional)* (S) ___
BIOE 131/L Animal Physiology (lab optional) (W) ___
BIOE 133/L Exercise Physiology (S) ___
BIOE 134/L Comparative Vertebrate Anatomy (F) ___
BIOE 135/L Plant Physiology (F) ___
BIOE 137/L Molecular Ecology* (S) ___
BIOE 140 Behavioral Ecology (F) ___
BIOE 145 Plant Ecology (F) ___
BIOE 147 Community Ecology (S) ___
BIOE 148A Quantitative Ecology I (S) ___
BIOE 148B Quantitative Ecology II (W) ___
BIOE 149 Disease Ecology (S) ___
BIOE 155 Freshwater Ecology (F) ___
BIOE 161 Kelp Forest Ecology (F) ___
BIOE 163/L Ecology of Reefs, Mangroves & Seagrasses (W) ___
BIOE 165 Marine Conservation Biology (F) ___
BIOE 172/L Population Genetics* (S) ___
BIOE 111A Immunology I (W) ___
BIOE 114 Cancer Cell Biology (S) ___
BIOE 115 Eukaryotic Molecular Biology (S) ___
BIOE 120 Developmental Biology (W) ___
BIOE 125 Intro Neuroscience (FS) ___
BIOE 130/L Human Physiology (FW) (lab optional) ___
BIOC 100C Biochemistry (S) ___
METX 119 Microbiology (FS) ___
METX 135/L Anatomy of the Human Body (S) ___

DC Requirement

Two of the following:

BIOE 108 Marine Ecology (W) ___
BIOE 114/L Herpetology (S) ___
BIOE 117 Systematic Botany of Flowering Plants (W) ___
BIOE 120/L Marine Botany (S) ___
BIOE 122/L Invertebrates (W) ___
BIOE 127/L Ichthyology (W) ___
BIOE 128L Large Marine Vertebrates (S) ___
BIOE 129/L Marine Mammals (lab optional) (S) ___
BIOE 137/L Molecular Ecology (S) ___
BIOE 141L Behavioral Ecology Field Course (-) ___
BIOE 145 Plant Ecology (F) ___
BIOE 145L Field Methods In Plant Ecology (-) ___
BIOE 150L Ecological Field Methods Lab (-) ___
BIOE 151B Supercourse: Ecological Field Methods Lab (-) ___
BIOE 153C Disciplinary Communication For Biologist (S) ___
BIOE 158L Marine Ecology Lab (-) ___
BIOE 159A Marine Ecology Field Quarter: Marine Ecology w/lab (W) ___
BIOE 161L Kelp Forest Ecology (F) ___
BIOE 171 Disciplinary Communication For Biologist (S) ___
BIOE 172/L Population Genetics (S) ___

or

One of the following:

BIOE 105L Eukaryotic Genetics Lab (FWS) ___
BIOE 106L Yeast Molecular Genetics Lab (WS) ___
BIOE 115L Eukaryotic Molecular Biology Lab (FWS) ___
BIOE 120L Development Lab (W) ___
BIOE 121L Environmental Phage Biology Lab (S) ___

For 2-credit BIOE lab courses taken concurrently with 5-credit lectures,
both courses must be passed to receive one half of the DC requirement

* Can be used towards DC Requirement*