BIOLOGY B.S. 2018-2019

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 of C or better

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) ___

*BIOL 20L is waived for junior transfer students

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*(-)___ +7B (-)___ +6L (FWS) ___ *Concurrent enrollment with PHYS 6L required

Note: PHYS 7A/B and 6L may not satisfy prerequisites for admission to all medical schools. Please check the specific admission requirements for each medical school of interest.

UPPER DIVISION REQUIREMENTS

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

Molecular Lab:
BIOL 101L (FWS) ___ OR BIOL 102L ___ (FWS)

Students who complete BIOC 100ABC+ BIOL 101L or 102L have met the Biochem. & Molec. Lab requirements

*BIOC 100C may be used to satisfy one upper division 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 electives (5-7 credits each) chosen from list on reverse page: (Electives marked with "**" will also count toward DC requirement)

_______ ___________ ____________

DISCIPLINARY COMMUNICATION REQUIREMENT (DC)
Satisfied by successful completion of two BIOE lab courses or by completing one 5-credit BIOL lab taken from the list of DC courses on reverse side of this sheet

See DC list reverse side: 2 BIOE Lab courses: _______ _________ or 1 BIOL Lab _________

This requirement MUST be completed at UCSC.

Note: The Academic Advising Report may not reflect current DC requirements.

COMPREHENSIVE REQUIREMENT(Senior Exit Requirement): Satisfied by successful completion of any upper-division BIOE or BIOL lab course identified with an "L"

*Course offerings are subject to change. Please refer to 18-19 curriculum plan for updates:

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.
Electives

Three of the following:

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

DC Requirement

Two of the following (with the lab):

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

or

One of the following:

BIOL 103L Toxic RNA Lab II (FWS) ___
BIOL 105L Eukaryotic Genetics Lab (WS) ___
BIOL 109L Yeast Molecular Genetics Lab (FWS) ___
BIOL 115L Eukaryotic Molecular Biology Lab (FWS) ___
BIOL 120L Development Lab (S) ___
BIOL 121L Environmental Phage Biology Lab (FWS) ___

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

Not all electives may be used towards the DC requirement.
Those indicated with a "**" may go towards the elective and DC requirement for the major.