MOLECULAR CELL & DEVELOPMENTAL BIOLOGY B.S. 2018-2019

Name:_____ Date: _____

(Quarter offered: F=Fall, W=Winter, S=Spring, (-)=Not offered) ID#: _____

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
BIOC 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 BIOL 102L have met the Biochem. & Molec. Lab requirements
*BIOC 100C may be used to satisfy one upper division elective.

Genetics BIOL 105 (FWS) ___

Cell Biology: BIOL 110 (FS) ___

Electives: 15 credits of elective courses from the following list:

BIOL 111A Immunology I (W) ___
BIOL 111B Immunology II (-) ___
BIOL 112 Virology (3 units) (W) ___
BIOL 114 Cancer Cell Biology (-) ___
BIOL 115 Eukaryotic Molecular Biology (S) ___
BIOL 116 Advanced Topics in Cell Biology (3 units) (S) ___
BIOL 117 Global Health & Neglected Diseases (3 units)(W) ___
BIOL 120 Developmental Biology (W) ___
BIOL 125 Intro to Neuroscience (FS) ___
BIOL 126 Advanced Molecular Neuroscience (W) ___
BIOL 127 Neurodegenerative Disease (S) ___
BIOL 128 Developmental Neurobiology (W) ___
BIOL 130/L Human Physiology (FW) (lab optional) ___
BIOL 178L Protocols in Stem Cell Biology (-) ___
BIOC 100C Biochemistry* (S) ___
BIOE 109 Evolution (FWS) ___
BIOE 135/L Plant Physiology/Lab (F) ___
BME 110 Computational Biology Tools (FW) ___
BME 130 Genomes (F) ___
BME 155 Biotechnology & Drug Development (-) ___
BME 160/L Research Programming for Biologists & Biochemists/lab (WS) ___
BME 178 Stem Cell Biology (W) ___
METX 119 Microbiology (FS) ___
PHYS 180 Biophysics (S) ___

DC Laboratory: ONE from the following…

BIOL 100L Biochemistry Lab (-) ___
BIOL 103L Toxic RNA Lab II (FWS)___
BIOL 105L Eukaryotic Genetics Lab (W,S) ___
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) ___
BIOL 186L Undergraduate Research in MCD (FWS) ___
METX 119L Microbiology Lab (FWS) ___

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 quallification courses must be

DISCIPLINARY COMMUNICATION (DC): Satisfied by successful completion of the DC lab requirement
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 the DC lab requirement

***Course offerings are subject to change. Please refer to 18-19 curriculum plan for updates:**
https://mcd.ucsc.edu/academics/courses/curriculum-plan-18-19.html