MOLECULAR CELL & DEVELOPMENTAL BIOLOGY B.S.  2016-17

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) ___

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

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

Physics:  PHYS 6A/L (FWS) ___ + 6B (WS) ___ OR  PHYS 6A/L (FWS) ___ + 6C (FS) ___

UPPER DIVISION REQUIREMENTS (8 total including BIOL 101L and 1 additional lab)

Biochemistry:  BIOL 100 (FW) ___
AND
Molecular Biology/Lab  BIOL 101/L (WS) ___

OR

Biochemistry & Molec Biol Series
*BIOC 100A (F) ___ + BIOC 100B (W) ___ + BIOC 100C (S) ___ + BIOL 101L (WS) ___

Genetics:  BIOL 105 (FWS) ___

Cell Biology:  BIOL 110 (FS) ___

Electives:  THREE from the following

Only ONE elective can be satisfied with a 3-unit elective

BIOL 111 Immunology (-) ___
BIOL 111A Immunology I (W) ___
BIOL 111B Immunology II (S) ___
BIOL 113 Mammalian Endocrinology (-) ___
BIOL 114 Cancer Cell Biology (S) ___
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 Neuroscience (F) ___
BIOL 126 Advanced Neural Development (WS) ___
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 (W) ___
BME 110 Computational Biology Tools (FW) ___
BME 130 Genomes (F) ___
BME 155 Biotechnology & Drug Development (W) ___
BME 160/L Research Programming in the Life Sciences/Lab (FS) ___
BME 178 Stem Cell Biology (W) ___
METX 119 Microbiology (FS) ___
PHYS 180 Biophysics (S) ___

Qualification Policy:
Complete CHEM 1A, CHEM 1B, CHEM 1C, BIOL 20A, BIOE 20B with grades of C or better. No more then one non-passing grade in the qual courses is accepted.

Laboratory: ONE from the following...

BIOL 100L Advanced Biochemistry Lab (F) ___
BIOL 105L Eukaryotic Genetics Lab (FWS) ___
BIOL 105M Microbial Genetics Lab (-) ___
BIOL 109L Yeast Molecular Genetics Lab (FS) ___
BIOL 110L Cell Biology Lab (-) ___
BIOL 115L Eukaryotic Molecular Biology Lab (FWS) ___
BIOL 120L Development Lab (W) ___
BIOL 121L Environmental Phage Biology Lab (FS) ___
BIOL 186L Undergraduate Research in MCD (FWS) ___
BIOC 110L Advanced Biochemistry Lab (S) ___
METX 119L Microbiology Lab (FWS) ___

DISCIPLINARY COMMUNICATION: Satisfied by successful completion of the lab requirement

NOTE: This requirement must be completed at UCSC.

COMPREHENSIVE REQUIREMENT (Senior Exit Requirement): _______

Satisfied by successful completion of the lab requirement

For more information about this requirement, visit:
http://undergrad.pbsci.ucsc.edu/mcdb/completing-the-major/senior-exit.html