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 (FWS) ____ OR 7/L (FWS) ____

Physics: PHYS 6A/L (FWS) ____ + 6B (WS) ____ OR PHYS 6A/L (FWS) ____ + 6C (FS) ____
OR PHYS 7A/L (F/-) ____ + 7B (W) ____

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

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

Molecular Biology Lab BIOL 101L (WS) ____

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

Genetics: BIOL 105 (FWS) ____

Cell Biology: BIOL 110 (FS) ____

Electives: THREE from the following

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

BIOL 111A Immunology I (W) ____
BIOL 111B Immunology II (S) ____
BIOL 112 Virology (3 credits)(-) ____
BIOL 114 Cancer Cell Biology (S) ____
BIOL 115 Eukaryotic Molecular Biology (S) ____
BIOL 116 Advanced Topics in Cell Biology (3 credits)(S) ____
BIOL 117 Global Health & Neglected Diseases (3 credits)(W) ____
BIOL 120 Developmental Biology (W) ____
BIOL 125 Intro Neuroscience (FW) ____
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 (-) ____
BIOL 109 Evolution (FWS) ____
BIOL 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 Biotechnology & Drug Development (W) ____
BME 178 Stem Cell Biology (W) ____
METX 119 Microbiology (FS) ____
PHYS 180 Biophysics (S) ____
BIOL 100C Advanced Biochemistry (S) ____

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) ____

QUALIFICATION POLICY:

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

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