INTRODUCTORY 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 108A/L (FW) ___ + 108B (WS) ___

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

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

ADVANCED 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 (FW) ___

BIOL 111A Immunology I (W) ___

BIOL 111B Immunology II (S) ___

BIOL 113 Mammalian Endocrinology (FW) ___

BIOL 114 Cancer Cell Biology (S) ___

BIOL 115 Eukaryotic Molecular Biology (W) ___

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 (FW) ___

BIOL 126 Advanced Neural Development (S) ___

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 (FW) ___

BIOC 100C Biochemistry (S) ___

BIOC 109 Evolution (FW) ___

BIOC 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) ___

Laboratory: ONE from the following...

BIOL 100L Advanced Biochemistry Lab (F) ___

BIOL 105L Eukaryotic Genetics Lab (FWS) ___

BIOL 105M Microbial Genetics Lab (FW) ___

BIOL 109L Yeast Molecular Genetics Lab (FS) ___

BIOL 110L Cell Biology Lab (FW) ___

BIOL 115L Eukaryotic Molecular Biology Lab (FW) ___

BIOL 120L Development Lab (W) ___

BIOL 121L Environmental Phage Biology Lab (FW) ___

BIOL 186L Undergraduate Research in MCD (FW) ___

BIOL 110L Advanced Biochemistry Lab (F) ___

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 then one non-passing grade in the qual courses is accepted.

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

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