**NEUROSCIENCE B.S.**

(Quarter offered: F=Fall, W=Winter, S=Spring, *=Not offered this year)

Note: All courses on check list must be taken for a letter grade

**INTRODUCTORY REQUIREMENTS**

Calculus:  
MATH 11A (FWS) ___ + 11B (FWS) ___  
OR MATH 19A (FWS) ___ + 19B (FWS) ___  
OR AMS 15A (W) ___ + AMS 15B (S) ___

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) ___

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

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

**ADVANCED REQUIREMENTS** (9 total, including 2 labs)

Biochemistry:  
BIOL 100/K (FS) ___

Genetics:  
BIOL 105 (FWS) ___

Cell Biology:  
BIOL 110 (FS) ___

Intro Neuroscience:  
BIOL 125 (F) ___

Adv Neuroscience  
BIOL 126 (W) ___

Electives:  Three from the following...  
BIOL 111A Immunology I (W) ___  
BIOL 111B Immunology II (S) ___  
BIOL 113 Endocrinology (S) ___  
BIOL 115 Eukaryotic Molecular Biology (WS) ___  
BIOL 118 Biology of Disease (*) ___  
BIOL 120 Development (W) ___  
BIOL 127 Neurodegenerative Disease (S) ___  
BIOL 130/L Human Physiology (lab optional) (FW) ___  
BIOL 140 Biophysics (S) ___  
BIOL 178 Stem Cell Biology (W) ___  
BIOL 178L Protocols in Stem Cell Biology (W) ___  
BIOL 179 Biotechnology and Drug Development (W) ___  
BIOL 180/L Programming for Biologists (S) ___  
BIOL 181 Computational Biology Tools (FW) ___  
BIOL 182 Genomics (F) ___  
BIOE 131/L Animal Physiology (lab optional) (W) ___  
BIOE 140 Behavioral Ecology (F) ___  
**PSYC 121 Perception ___  
**PSYC 123 Behavioral Neuroscience ___

**Laboratory:** One 5-unit lab from the following...  
BIOL 100L Advanced Biochemistry Lab (WS) ___  
BIOL 105L Eukaryotic Genetics Lab (FWS) ___  
BIOL 110L Cell Biology Lab (*) ___  
BIOL 115L Eukaryotic Molecular Lab (FWS) ___  
BIOL 120L Development Lab (W13) ___  
BIOL 121L Environmental Phage Biology Lab (W) ___  
BIOL 186L Undergraduate Research in MCD (FWS) ___  
BIOL 187L Biotechnology Lab (F) ___  
BIOE 141L Behavioral Ecology Field Course (W13) ___  
BIOE 182 Environmental Virus Bioinformatics (*) ___

Disciplinary Communication:  Successful completion of a laboratory elective.  
(Note: DC course must be taken at UCSC.)

**COMPREHENSIVE REQUIREMENT** (Senior Exit Requirement) _____________

For more information see: http://undergrad.pbsci.ucsc.edu/programs/mcdb/advising.html#exit