BIOLOGY B.A. - Bioeducation Concentration

<table>
<thead>
<tr>
<th>Name: __________________________</th>
<th>Date: __________________________</th>
</tr>
</thead>
</table>

(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) ___ + 15B (S) ___

**General Chemistry:**
- CHEN 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) ____

**Education:**
- EDUC 50C CalTeach 1: Science (FWS) ___

**Astronomy:**
- ASTR 2 Overview of the Universe (FW) ___ (optional)

**Earth Sciences:**
- EART 20/L Environmental Geology (W) ___ (optional)

### ADVANCED REQUIREMENTS

**Biochemistry:**
- BIOL 100/K (FS) ___

**Genetics:**
- BIOL 105 (FWS) ___

**Ecology:**
- BIOE 107 (WS) ___

**Evolution:**
- BIOE 109 (FW) ___

**Cell & Development:**
- ONE from the following...  
  - BIOL 110 Cell Biology (FS) ___  
  - BIOL 115 Eukaryotic Molecular Biology (WS) ___  
  - BIOL 120 Development (W) ___  
  - METX 119 Microbiology (FW) ___

**Physiology:**
- ONE from the following...  
  - BIOE 131 Animal Physiology (W) ___  
  - BIOE 135/L Plant Physiology (W) ___  
  - BIOL 113 Endocrinology (S) ___  
  - BIOL 130 Human Physiology (FW) ___

**Laboratory:**
- ONE upper-division 5-unit Lab course ___  
  - OR BIOE 131L Animal Physiology Lab (W) ___  
  - OR BIOE 135L Plant Physiology Lab (W) ___  
  - OR BIOE 130L Human Physiology Lab (FW) ___

**Diversity:**
- ONE from the following...  
  - EDUC 128 Immigrants and Education (F) ___  
  - EDUC 141 Bilingual and Schooling (S) ___  
  - EDUC 164 Urban Education (W) ___  
  - EDUC 181 Race, Class, and Culture in Education (F) ___

**Disciplinary Communication:**
- Successful completion BIOE 107 Ecology and BIOE 109 Evolution  
  (Note: DC courses must be taken at UCSC.)

**COMPREHENSIVE REQUIREMENT** (Senior Exit Requirement): ________________

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

NOTE: Be sure to check prerequisites and timing of offerings for electives taught outside of Biological Sciences