

# Major Planner | Biology BA

## Sample Academic Plan - Remember to add your GE's

	Fall _____	Winter _____	Spring _____	Summer _____
<b>Freshman</b>	GE/ME "Major Exploration"	CHEM 1A	CHEM 1B	
	Core/Writing	GE/ME "Major Exploration"	BIOE 20C	
		Core/Writing/ME	Core/Writing/ME	
<b>Sophomore</b>				
	BIOL 20A	BIOE 20B	BIOL 105	
	AMS 7/L	PHYS 1 or 6A/L		
<b>Junior</b>				
	BIOE 109	BIOE 107	Anatomy/Physiology/L	
	Biology Elective			
<b>Senior</b>				
	Biology Elective/L	Biology Elective	Biology Elective	

## EEB Yearly Goals

<b>Freshman</b>	<ul style="list-style-type: none"> <li>Take "ME" (major exploration) courses to explore your interests</li> <li>Begin major qualification courses: All EEB majors begin with math placement: <i>MATH</i> --&gt; <i>CHEM</i> --&gt; <i>BIO</i></li> <li>Attend an EEB Major Qualification Workshop</li> <li>Consider taking a field course like BIOE 82 Intro to Field Research &amp; Conservation</li> </ul>
<b>Sophomore</b>	<ul style="list-style-type: none"> <li>Attend EEB Field Experience Workshop</li> <li>Review upper division BIOE course descriptions</li> <li>Complete major qualification courses</li> <li>Declare your major + meet with EEB Advising</li> </ul>
<b>Junior</b>	<ul style="list-style-type: none"> <li>Identify + meet with Faculty Adviser</li> <li>Attend EEB Undergraduate Research Workshop</li> <li>Consider a UCEAP program and/or Field Quarter</li> <li>Consider beginning EEB Undergraduate Research Courses with BIOE 182F</li> <li>Begin considering graduate school and careers</li> </ul>
<b>Senior</b>	<ul style="list-style-type: none"> <li>Meet with EEB Advising to complete a grad check</li> <li>Review your Academic Advisement Report (AAR) in your MyUCSC portal to verify your GE's. Contact your College Adviser with any questions about your campus-level requirements (units, GE's, etc.)</li> <li>Attend EEB Job &amp; Internship Fair</li> <li>Meet with a Career Coach at the UCSC Career Center</li> </ul>





# Major Map | Biology BA

## Lower Division | 7 courses




- **General Chemistry (2)**

CHEM 1A General Chemistry  
CHEM 1B General Chemistry

- **Introductory Biology (3)**

BIOE 20C Ecology & Evolution  
 BIOL 20A Cell & Molecular Biology  
 BIOE 20B Development & Physiology

- **Physics (1)**

PHYS 1 Conceptual Physics 1  
 or  
 PHYS7A/6L Elementary Physics I  
 or  
 PHYS 6A/L Introductory Physics I

- **Statistics (1)**

AMS 5 Statistics  
 or  
 AMS 7/L Biostatistics

## Upper Division | 8 courses - 2 courses must include lab/field component

### Foundation Courses (3)

BIOL 105 Genetics  
 BIOE 109 Evolution  
 BIOL 107 Ecology






### Core Course (1)

- **Anatomy or Physiology (1)**

BIOE 131/L Animal Physiology  
*Lab Optional*  
 BIOE 133/L Exercise Physiology  
 BIOE 134/L Comparative Vertebrate Anatomy  
 BIOE 135/L Plant Physiology  
 BIOL 130/L Human Physiology  
 METX 135/L Human Anatomy

### EEB General Electives (3)

#### Courses numbered BIOE 107 - BIOE 172/L

 BIOL 100 Biochemistry  
 BIOL 101/L Molecular Biology  
 BIOL 110 Cell Biology  
 BIOL 115 Eukaryotic Molecular Biology  
 BIOL 120 Developmental Biology  
 // BIOL 125 Intro Neuroscience  
 // METX 119 Microbiology  
 // METX 119L Microbiology Lab

### Optional Field Quarters

- **BIOE 151** Ecology & Conservation in Practice Supercourse
- **BIOE 153** Arctic Ecology & Environmental Change Field Quarter
- **BIOE 159** Marine Ecology Field Quarter
- **Natural Reserve System** Ecology & Conservation

### Graduation Requirements

- **Disciplinary Communication (DC):** 2 approved lab/field courses. See website.
- **Senior Exit:** Any 2 or 5-unit lab/field course OR Senior Thesis

### Course Prerequisites


**BIOL 20A + BIOE 20B + BIOE 20C** required for all upper division BIOE courses


// See Catalog


 MATH 11A or 19A


 MATH 11B or 19B


 CHEM 1A


 CHEM 1A + 1B + 1C/N + 8A/108A


 BIOL 20A

 PHYS 7A/6L

 BIOL 100

 BIOL 101/L

 BIOL 105

 BIOL 110

\* Permission of instructor required



See catalog for EEB course descriptions:

[www.eeb.ucsc.edu/academics/courses/course-catalog.php](http://www.eeb.ucsc.edu/academics/courses/course-catalog.php)