

Department of Biological Sciences

Marine Biology Emphasis

Sample Four Year Degree Program

HSU First Time Freshman

Note: This is a model four-year plan, not a guaranteed sequence or contract, based on the 2009-10 catalog. For updates please see major advisor.

1st Year		units			units
Fall Semester			Spring Semester		
Math 115 Algebra & Elem Functions	4		Biology 105 Principles of Biology	4	
or Math 105 Calculus for Bio Sci & NR	3		Math 105 Calculus for Bio Sci & NR	3	
Chemistry 109 General Chemistry	5		Oceanography 109	4	
LD GE Area A	3		LD GE Area A	3	
American Inst. – History or Gov't	3		<u>LD GE Area C or D</u>	<u>3</u>	
<u>LD GE Area C or D</u>	<u>3</u>			17	
	14-18				

2nd Year		units			units
Fall Semester			Spring Semester		
Botany 105 General Botany	4		Zoology 110 Introductory Zoology	4	
Biometry 109	4		Physics 106 College Physics	4	
LD GE Area A	3		LD GE Area C	3	
LD GE Area C	3		LD GE Area D	3	
<u>LD GE Area D</u>	<u>3</u>		<u>Oceanography 109 or elective</u>	<u>3-4</u>	
	17			17-18	

3rd Year		units			units
Fall Semester			Spring Semester		
Biology 330 Principles of Ecology	4		Biology 340 Genetics	4	
Botany 310 Gen Plant Physiology	4		Botany 353 Phycology	4	
or Zoology 310 Animal Physiology	4		American Inst. – History or Gov't	3	
or Biology 410 Cell Biology	4		Biology 307 Evolution	4	
Zoology 314 Invertebrate Zoology	5		Elective	2-3	
Physics 118 Biological Applications	1		<u>UD GE</u>	<u>3</u>	
<u>UD GE</u>	<u>3</u>			20-21	
	17				

4th Year		units			units
Fall Semester			Spring Semester		
Biology 412 General Bacteriology	4		Biology 430 Intertidal Ecology	3	
Course in Vertebrate Biology or Zool 430	3-4		Biology 490 or 499 Senior Project	1-2	
Chemistry 328 Brief Organic Chemistry	4		Biology Course or Elective	3-4	
<u>UD GE</u>	<u>3</u>		Elective	3-4	
	14-15		<u>UD GE Area E</u>	<u>3</u>	
				13-16	

Minimum of 120 units required for Bachelor of Science degree

LDGE Areas A, B, C, D 36 units

UDGE 12 units

LD major required courses 29-37 units

UD major required courses 27-40 units

(Revised 5/18/09)