

Department of Biological Sciences

Cellular Molecular 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 Alg & 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		Chemistry 110 General Chemistry	5	
LD GE Area A	3		LD GE Area A	3	
LD GE Area C or D	3		LD GE Area C or D	3	
	14-15			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	
LD GE Area D	3		LD Course required in option	3-4	
	17			17-18	

3rd Year		units			units
Fall Semester			Spring Semester		
Chemistry 321 Organic Chemistry	5		Chemistry 322 Organic Chemistry	5	
or Chemistry 328 Brief Organic Chemistry	4		Zoology 310 Animal Physiology	4	
Biology 307 Evolution	4		or Botany 310 Gen. Plant Physiology	4	
Biology 340 Genetics	4		American History or Institutions	3	
Physics 107 College Physics	4		UD GE	3	
UD GE	3			15	
	19-20				

4th Year		units			units
Fall Semester			Spring Semester		
Biology 412 General Bacteriology	4		Biology 410 Cell Biology	4	
Biology 440 Genetics lab	2		Chemistry 432 Biochemistry II (elective)	5	
Chemistry 438 or 431 Biochemistry	4-5		Elective	3-4	
American History or Institutions	3		Biology 490 or 499 Senior Project	1-2	
UD GE	3		UD GE Area E	3	
	16-17			16-18	

Minimum of 120 units required for Bachelor of Science degree

LD GE Areas A, B, C, D 36 units

UDGE 12 units

LD major required courses 29-37 units

UD major required courses 27-40 units

Total LD and UD units required by major 61-76 (average 65)

(Revised 5/18/09)