

Department of Biological Sciences

Microbiology 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		Chemistry 110 General Chemistry II	5	
or Math 105 Calculus for Bio Sci & NR	3		Math 105 Calculus for Bio Sci & NR	3	
Chemistry 109 General Chemistry	5		or Biometry 109 Introductory Biometrics	4	
LDGE Area A	3		LDGE Area A	3	
LDGE Area C or D	3		LDGE Area C	3	
	14-15		LDGE Area D	3	
				17-18	

2nd Year		units			units
Fall Semester			Spring Semester		
Biology 105 Principles of Biology	4		Zoology 110 Introductory Zoology	4	
Botany 105 General Botany	4		Physics 106 College Physics	4	
Elective or Biometry 109	3-4		LDGE Area C	3	
LDGE Area A	3		LDGE Area D	3	
LDGE Area C or D	3		American History or U.S. Govt.	3	
	17-18			17	

3rd Year		units			units
Fall Semester			Spring Semester		
Biology 330 Principles of Ecology	4		Botany 310 Gen Plant Physiology	4	
Biology 340 Genetics	4		or Zoology 310 Animal Physiology	4	
Chemistry 328 Brief Organic Chemistry	4		or Biology 410 Cell Biology	4	
Physics 118 Biological Applications	1		Biology 307 Evolution	4	
UDGE	3		Elective	3	
	16		UDGE	3	
			American History or U.S. Govt.	3	
				17	

4th Year		units			units
Fall Semester			Spring Semester		
Biology 433 Microbial Ecology	4		Biology 412 Bacteriology	4	
Elective	3-4		Botany 358 Biology of Microfungi	2	
Chemistry 438 Brief Biochemistry	4		Biology 440 Genetics Laboratory	2	
Biology 490 or 499 Senior Project	1-2		Elective	3-4	
UDGE	3		UDGE Area E	3	
	15-17			14-15	

Minimum of 120 units counted for Bachelor of Science Degree.

Total LD and UD units required by major = 69*

Total UD and LD GE Areas A, B, C and D = 48

Elective units in a 120 unit degree = 15

* 12 of the units taken for major requirements also satisfy GE requirements (Revised 5/18/09)