

Sample Program Plan Biology Degree Molecular Concentration

Spring2022

<i>Freshman Year</i>					
Fall		Winter		Spring	
CHEM 204/204L General Chemistry	5	CHEM 205/205L Gen. Chemistry	5	CHEM 206/206L Gen. Chemistry	5
BIOL 211/211L Principles of Biology	5	BIOL 212/212L Prin. of Biology	5	BIOL 213/213L Principles of Biology	5
MATH 111 College Algebra [1]	4	MATH 112 Pre-Calculus [2]	4	MATH 241 Survey Calculus	4
Total Credits		Total Credits		Total Credits	
14		14		14	
<i>Sophomore Year</i>					
Fall		Winter		Spring	
CHEM 334 Organic Chemistry I	4	CHEM 335 Organic Chemistry II	4	CHEM 336 Organic Chemistry III	4
BIOL 341/341L Genetics	4	CHEM 338 Organic Chem. I Lab	1	CHEM 339 Organic Chem. II Lab	1
WR 121 Academic Composition	4	BIOL 342/342 Genetics	4	BIOL345 Molecular Biology	3
Total Credits		Total Credits		Total Credits	
12		9		8	
<i>Junior Year</i>					
Fall		Winter		Spring	
BIOL 431 Cell Structure/Function	5	BIOL 323/323L Gen. Microbiology	5	BIOL 357/358 Gen. Ecology & Lab	5
STAT 243 OR STAT 327	4/5	STAT 352 Statistics [3]	4	PHYS 203/203L Gen. Physics [5]	4
PHYS 201/201L General Physics	4	PHYS 202/202L Gen. Physics [5]	4		
Total Credits		Total Credits		Total Credits	
~14		13		9	
<i>Senior Year</i>					
Fall		Winter		Spring	
CHEM 450 Structural Biochemistry [5]	4	BIOL 432/432L Animal Physiology	5	BIOL 462 Cellular Neurobiology	3
CHEM 454 Biochemistry Lab	2	CHEM 451 Metabolic Biochemistry	4	BIOL 490 Evolution (Capstone)	3
BIOL 445 Immunology	3				
Total Credits		Total Credits		Total Credits	
9		9		6	

- [1] Prerequisite for MATH112 and co-requisite for CHEM204
- [2] Prerequisite for PHYS201
- [3] If STAT327 is taken, STAT352 does NOT need to be taken
- [4] Offered every other year
- [5] Recommended