

Full name: \_\_\_\_\_ Hamline ID: \_\_\_\_\_ Phone #: \_\_\_\_\_

Anticipated graduation date (such as: May, 2021) \_\_\_\_\_

**16-17 COURSES AND BIOLOGY SEMINAR FOR MAJOR**

DEPT	COURSE	TITLE	GRADE	CREDITS	TERM/ YEAR	SUBSTITUTE COURSE*	BREADTH OF STUDY**
1. BIOL	1800	Principles of Ecology & Evolution		4			no
2. BIOL	1820	Principles of Plant & Animal Physiology		4			no
3. BIOL	3050	Principles of Genetics		4			no
4. BIOL	3060	Principles of Cell Biology		4			no
<b>Four biology electives at the 3000 level or higher:</b>							
5. BIOL				4			no
6. BIOL				4			no
7. BIOL				4			no
8. BIOL				4			no
<b>9.-10. One year of general chemistry or one semester of advanced general chemistry:</b>							
CHEM	1130	General Chemistry I		4			yes
CHEM	1140	General Chemistry II		4			yes
<b>or</b>							
CHEM	1500	Advanced General Chemistry		4			yes
<b>One year of organic chemistry:</b>							
11. CHEM	3450	Organic Chemistry I		4			yes
12. CHEM	3460	Organic Chemistry II		4			yes
<b>One year of general physics:</b>							
13. PHYS or	1150	Algebra-based Physics I		4			yes
	1230	General Physics I					
14. PHYS or	1160	Algebra-based Physics II		4			yes
	1240	General Physics II					
<b>15. One statistics course chosen from the following:</b>							
MATH	1200	Statistics		4			yes
PSY	1340	Stats for the Behavioral Sciences					
QMBE	1310	Statistics					
<b>Calculus I/II including differential and integral calculus:</b>							
16. MATH	1170	Calculus I		4			yes
17. MATH	1180	Calculus II		4			yes
<b>Three semesters of BIOL 5950 and one semester of BIOL 5951:</b>							
BIOL	5950	Biology Seminar		0.5			no
BIOL	5950	Biology Seminar		0.5			no
BIOL	5950	Biology Seminar		0.5			no
BIOL	5951	Biology Seminar Presentation		0.5			no
<b>Writing intensive course in the major:</b>							

\*Department approval is required for transfer courses or other substitutions. Courses used as substitutions must be initiated by Department Chair.

\*\*In order to graduate, you must have at least 48 Breadth of Study credits (credits outside your major department). See above for courses in your major that also count toward Breadth of Study.

 Student signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 (required)

 Biology advisor signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 (required)

 Department chair signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 (required for course substitutions and waivers)