

Full name: \_\_\_\_\_ Hamline ID: \_\_\_\_\_ Phone #: \_\_\_\_\_  
 Anticipated graduation date (such as: May, 2022) \_\_\_\_\_

DEPT	COURSE	TITLE	GRADE	CREDITS	TERM/ YEAR	SUBSTITUTE COURSE*	BREADTH OF STUDY**
<b>Gateway course(s):</b>							
CHEM	1500	Advanced General Chemistry		4			no
<i>or</i>							
CHEM	1130	General Chemistry I		4			no
CHEM	1140	General Chemistry II		4			no
<b>Foundation courses:</b>							
CHEM	3240	Analytical Chemistry		4			no
CHEM	3450	Organic Chemistry I		4			no
CHEM	3550	Physical Chemistry I		4			no
CHEM	3840	Inorganic Chemistry		4			no
BIOC	3820	Biochemistry I		4			no
or CHEM	3700	Chemical Biology					
<b>12 credits chosen from the following:</b>							
CHEM	3330	Instrumental Methods		4			no
CHEM	3460	Organic Chemistry II		4			no
CHEM	3560	Physical Chemistry II		4			no
CHEM	3940	Advanced Laboratory Techniques		2			no
CHEM	3950	Physical Chemistry Laboratory Techniques		2			no
CHEM	5820	Advanced Analytical Chemistry		4			no
CHEM	5860	Advanced Organic Chemistry		4			no
CHEM	5880	Advanced Physical Chemistry		4			no
BIOC	3830	Biochemistry II		4			no
<b>Math requirement:</b>							
MATH	1170	Calculus I		4			yes
MATH	1180	Calculus II		4			yes
<b>One of the following physics options:</b>							
PHYS	1150	Algebra-based Physics I		4			yes
PHYS	1160	Algebra-based Physics II		4			yes
<i>or</i>							
PHYS	1230	General Physics I		4			yes
PHYS	1240	General Physics II		4			yes
<b>Three semesters of Chemistry Seminar:</b>							
CHEM	5950	Chemistry Seminar A		0.5			no
CHEM	5950	Chemistry Seminar A		0.5			no
CHEM	5950	Chemistry Seminar A		0.5			no
<b>Research Experience (one of the following):</b>							
CHEM	5951	Chemistry Seminar B		0.5			no
CHEM	5960	Chemistry Seminar Research					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)

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

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