

Full name: \_\_\_\_\_ Hamline ID: \_\_\_\_\_ Phone #: \_\_\_\_\_  
 Anticipated graduation date (such as: May, 2018) \_\_\_\_\_

**13-15 COURSES and SEMINAR FOR MAJOR**

| DEPT   | COURSE | TITLE                                   | GRADE | CREDITS | TERM/ YEAR | SUBSTITUTE COURSE* | BREADTH OF STUDY** |
|--|--------|---|-------|---------|------------|--------------------|--------------------|
| <b>General Chemistry - one or two courses:</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 - five courses:</b>              |        |   |       |         |            |                    |                    |
| CHEM   | 3240   | Analytical Chemistry                    |       | 4       |            |                    | no                 |
| CHEM   | 3450   | Organic Chemistry I                     |       | 4       |            |                    | no                 |
| CHEM   | 3550   | Physical Chemistry I                    |       | 4       |            |                    | no                 |
| CHEM   | 5840   | Advanced Inorganic Chemistry            |       | 4       |            |                    | no                 |
| BIOC or  | 3820   | Biochemistry I                          |       | 4       |            |                    | no                 |
| 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   | Instrumental Methods Lab                |       | 2       |            |                    | no                 |
| CHEM   | 3950   | Physical Chemistry Lab                  |       | 2       |            |                    | no                 |
| CHEM   | 5820   | Advanced Analytical Chemistry           |       | 4       |            |                    | no                 |
| CHEM   | 5860   | Advanced Organic Chemistry              |       | 4       |            |                    | no                 |
| CHEM   | 5880   | Advanced Physical Chemistry             |       | 4       |            |                    | no                 |
| CHEM   | 5960   | Chemistry Research                      |       | 2       |            |                    | no                 |
| BIOC   | 3830   | Biochemistry II                         |       | 4       |            |                    | no                 |
|  |        | <i>other 3000-level approved course</i> |       |         |            |                    |                    |
| <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>Four semesters of Chemistry Seminar:</b>    |        |   |       |         |            |                    |                    |
| CHEM   | 5950   | Chemistry Seminar                       |       | 0.5     |            |                    | no                 |
| CHEM   | 5950   | Chemistry Seminar                       |       | 0.5     |            |                    | no                 |
| CHEM   | 5950   | Chemistry Seminar                       |       | 0.5     |            |                    | no                 |
| CHEM   | 5950   | Chemistry Seminar                       |       | 0.5     |            |                    | no                 |
| <b>Writing intensive course in the major:</b>  |        |   |       |         |            |                    |                    |
|  |        |   |       |         |            |                    |                    |

\*Department approval is required for transfer courses or other substitutions. Approval must be initialed in the Department Approval column.

\*\*In order to graduate, you must have at least 76 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)