

### Curriculum for a B.A. degree in Biochemistry

| Year         | Term | BIOCH                                  |        | CHM  |        | BIOL  |            | PHYS   |         | MATH/STAT                        |    | Univ. & College Req.                     |    |
|--------------|------|--|--------|--|--------|---|------------|--|---------|----------------------------------|----|--|----|
| 1            | Fall | 110 Biochem Society                    | 3      | 210 Chemistry I#   | 4      |   |            |  |         | 220 Calc I                       | 4  | <i>K- Core<sup>^</sup></i>               | 27 |
|              | Spr  |  |        | 230 Chemistry II#  | 4      | 198 Prin Biology                                    | 4          |  |         | 221 Calc II                      | 4  |  |    |
| 2            | Fall |  |        | 350 Gen Org Chem<br>351 Gen Org Lab<br><i>optional</i><br>531 Org Chem I (3)<br>532 Org Lab (2)* | 3<br>2 | 450 Modern Genetics<br><br>455 General Microbiology | 4<br><br>4 | 113 Gen Physics I<br>or<br>213 Eng Physics I   | 4<br>5  | Any 3 credit hours in Statistics | 3  | <i>ArtSci Requirements</i>               | 9  |
|              | Spr  | 521 Gen Biochem<br>522 Gen Biochem Lab | 3<br>3 | 371 Chemical Analysis  | 4      | 541 Cell Biology                                    | 3          | 114 Gen Physics II<br>or<br>214 Eng Physics II | 4<br>5  |                                  |    |  |    |
| 3            | Fall | 755 Biochem I                          | 3      |  |        |   |            |  |         |                                  |    | <i>College Orientation</i>               | 1  |
|              | Spr  | 765 Biochem II                         | 3      |  |        |   |            |  |         |                                  |    |  |    |
| 4            | Fall |  |        |  |        |   |            |  |         |                                  |    | Second Language Level 1 – 4 <sup>1</sup> | 14 |
|              | Spr  |  |        |  |        |   |            |  |         |                                  |    |  |    |
| <b>Total</b> |      |  | 15     |  | 17     |   | 15         |  | 8 or 10 |                                  | 11 |  | 50 |

Total credit hours of required courses 116

Upper Division Electives<sup>2</sup> 3

Total 120

<sup>1</sup> The BA requires Level 4 Foreign language, which qualifies the degree holder for Phi Beta Kappa.

1. Option 1: At least 3 credit hours of coursework culminating with level 4 or above the equivalent of level 4 in a second language sequence
2. Option 2: At least 16 credit hours of coursework in which student takes the first and second levels of two different languages or from any other second language transferred in at an equivalent level.

<sup>2</sup> MATH 222 or 340 or any upper division (>500 level) course in: BIOCH, BIOL, CHM, CIS, MATH, PHYS, STAT

# Honors Chemistry I and II (CHM 220, 250) can be taken instead of CHM 210,230

\*CHM 550 (Org Chem II) should be taken if the option CHM 531,532 is selected and will count towards electives

<sup>^</sup>Requirement 3 (Math & Stat) and Requirement 4 (Natural Sci) are fulfilled through major requirements