## 2027 Academic Planning Form: BIOCHEMISTRY B.S.

Example Sequence for BIOCHEMISTRY B.S. (most electives can be chosen at student's discretion.)

|   |   | The second secon | electives can be chosen at student's discretion.)   |                 |                       |
|---|---|--|---|-----------------|-----------------------|
|   | Fall Semester   | # of<br>Credits  | Spring Semester   | # of<br>Credits | Total Year<br>Credits |
| 1 <sup>st</sup> Year  | DWC 101 (4 credit hrs; Honors 5 credit hrs)   | 4  | DWC 102 (4 credit hrs; Honors 5 credits hrs)  | 4               |                       |
|   | MTH 131 Calc & Analytical Geometry I (Quantitative Reasoning Core)  | 4  | MTH 132 Calc & Analytical Geometry II   | 4               |                       |
|   | CHM 121 Intro Chemistry I w/ Lab (Natural Science Core)   | 4  | CHM 122 Intro Chemistry II w/ Lab   | 4               |                       |
|   | BIO 103 General Biology I w/ Lab  | 4  | BIO 104 General Biology II w/ Lab   | 4               |                       |
|   |   |  | CHM 132 Intro to Biochemistry   | 1               |                       |
|   |   | 16   |   | 17              | 33                    |
| 2 <sup>nd</sup> Year  | DWC 201 (4 credit hrs; Honors 5 credit hrs)   | 4  | DWC 202 (4 credit hrs; Honors 5 credits hrs)  | 4               |                       |
|   | CHM 221 Organic Chemistry I w/ Lab  | 4  | CHM 222 Organic Chemistry II w/ Lab   | 4               |                       |
|   | EPS 101 General Physics I w/ Lab  | 4  | EPS 102 General Physics II w/ Lab   | 4               |                       |
|   | BIO 200 Cellular and Molecular Biology (Intensive Writng II<br>Proficiency)   | 3  | Core  | 3               |                       |
|   |   | 15   |   | 15              | 30                    |
| 3 <sup>rd</sup> Year  | CHM 309 Biochemistry  | 3  | CHM 321 Physical Chemistry I  | 3               |                       |
|   | CHM 331 Adv. Analytical Chemistry I w/ Lab  | 4  | CHM 321L Physical Chemistry I Lab   | 1               |                       |
|   | CHM 381 Chemistry Seminar (Oral Communication Proficiency)  | 1  | CHM 312 Biochemistry II   | 3               |                       |
|   | Core  | 3  | CHM 382 Chemistry Seminar (Oral Communication Proficiency)  | 2               |                       |
|   | Core/Free Elective  | 3  | Core  | 3               |                       |
|   |   |  | Core/Free Elective  | 3               |                       |
|   |   | 14   |   | 15              | 29                    |
| 4 <sup>th</sup> Year  | Chemistry Elective(s)   | 3 or 4   | CHM 310L Biochemistry Lab (Intensive Writng II Proficiency)   | 3               | -/                    |
|   | CHM 481 Chemistry Seminar (Oral Communication Proficiency)  | 2  | CHM 482 Chemistry Seminar (Oral Communication Proficiency)  | 0               |                       |
|   | BIO 308 Modern Genetics w/ Lab  | 4  | Core/Free Elective  | 3               |                       |
|   | Core  | 3  | Core/Free Elective  | 3               |                       |
|   | Core  | 3  | Core  | 3               |                       |
|   |   | 16   |   | 12              | 28                    |
| *Graduation Requirement includes a minimum of 120 credit hours*   |   |  | Total Program of  | f Study Credits | 120                   |
| Note: CHM 3   | road - fall of the junior year following consultation with department chair<br>10L and CHM 312 are offered in alternate years.<br>ective may be any 300 or 400 level CHM course,student will receive ACS c<br>Core requirements include a foundat | ertification   |   |                 |                       |
| Foundational Component:   |   |  | Proficiencies:  |                 |                       |
| <ul> <li>DWC - 4 semester sequence, 16-20 cr.</li> <li>Theology (200 &amp; 300 level) - 6 cr.</li> <li>Philosophy (1 Ethics) - 6 cr.</li> <li>Natural Science - 3 cr. (CHM 121/121L)</li> <li>Social Science - 3 cr.</li> <li>Quantitative Reasoning - 3 cr. (MTH 131 or MTH 132)</li> <li>Fine Arts - 3 cr.</li> </ul> |   |  | <ul> <li>Intensive Writing - I</li> <li>Intensive Writing - II (BIO 200 and CHM 310L)</li> <li>Diversity</li> <li>Civic Engagement</li> <li>Oral Proficiency (CHM 381/382/481/482)</li> </ul> |                 |                       |
|   | Major Require   | ments ( BI   | DCHM BS Courses):   |                 |                       |
| <ul> <li>CHM 121-1</li> <li>MTH 131-1</li> <li>BIO 103-10</li> </ul>  |   | • ]  | EPS 101-102   |                 |                       |

5/17/2023