



**COLLEGE OF LIBERAL ARTS & SCIENCES**

Chemistry- Biochemistry (BS)

Bachelor of Science with Innovation Minor  
Suggested Schedule\*

| FIRST YEAR  |              |   |              |
|---|--------------|---|--------------|
| Semester 1 (Spring)   |              | Semester 2 (Summer)   |              |
| CHM2045 General Chemistry 1 (State Core GE-P) & CHM2045L General Chemistry 1 Lab                    | 4            | CHM2046 General Chemistry 2 (GE-P) & CHM2046L General Chemistry 2 Lab                               | 4            |
| MAC2311 Analytical Geometry & Calculus I (State Core GE-M)  | 4            | MAC2312 Analytical Geometry & Calculus II (GE-M & Counts as 3000 Elective Outside Major)            | 4            |
| Composition (State Core GE-C)   | 3            | IDS1359 Innovation in Action  | 2            |
| IDS1940 Creativity & Design Thinking for Innovation   | 2            | Humanities (State Core GE-H) *recommend with GE-N   | 3            |
| Social & Behavioral Sciences (State Core GE-S) *recommend with GE-D                                 | 3            | Social & Behavioral Sciences (GE-S)   | 3            |
| <b>TOTAL</b>  | <b>16</b>    | <b>TOTAL</b>  | <b>16</b>    |
| SECOND YEAR   |              |   |              |
| Semester 3 (Spring)   |              | Semester 4 (Summer)   |              |
| BSC2010 Integrated Principles of Biology 1 (GE-B) & BSC2010L Integrated Principles of Biology 1 Lab | 4            | BSC2011 Integrated Principles of Biology 2 (GE-B) & BSC2011L Integrated Principles of Biology 2 Lab | 4            |
| CHM2210 Organic Chemistry I - 3 credits or CHM3217 Organic/Biochemistry I - 4 credits               | 3-4          | CHM2211 Organic Chemistry 2 (3 credits) or CHM3218 Organic/Biochemistry 2 (4 credits)               | 3-4          |
| ENT3003 Principles of Entrepreneurship  | 4            | CHM2211L Organic Chemistry Laboratory   | 2            |
| Foreign Language  | 5            | Foreign Language  | 5            |
| <b>TOTAL</b>  | <b>16-17</b> | <b>TOTAL</b>  | <b>14-15</b> |
| THIRD YEAR  |              |   |              |
| Semester 5 (Spring)   |              | Semester 6 (Summer)   |              |
| CHM3218 Organic/Biochemistry 2 (if completing CHM2210-CHM2211 sequence)                             | 3            | MCB3020: Basic Biology of Microorganisms (Counts as 3000 level outside elective)                    | 3            |
| PHY2053 & PHY2053L or PHY2048 & PHY2048L  | 3            | PHY2054 & PHY2054L or PHY2049 & PHY2049L (Counts as 3000 level Outside Elective)                    | 4-5          |
| CHM3120 & CHM3120L Analytical Chemistry + Lab   | 4            | AEC3410 Fostering Innovation Through Leadership   | 3            |
| PHI3641 Ethics and Innovation (GE-H, 2K)  | 3            | Social & Behavioral Science (GE-S)  | 3            |
|   |              | CHM4300L Laboratory in Biochemistry & Molecular Biology   | 2            |
| <b>TOTAL</b>  | <b>15-16</b> | <b>TOTAL</b>  | <b>15-16</b> |
| FOURTH YEAR   |              |   |              |
| Semester 7 (Spring)   |              | Semester 8 (Summer)   |              |
| Approved Biochemistry Electives (most electives are not offered in the summer)                      | 6            | CHM4413L Biophysical Chemistry Lab  | 3            |
| CHM3400 Physical Chemistry for the Biosciences  | 3            | ENT4015 The Venture Accelerator, or IDS4950 Innovation Academy Senior Project                       | 3            |
| Composition (GE-C)  | 3            | CHM3610 Inorganic Chemistry   | 3            |
| Humanities (GE-H)   | 3            | Electives   | 2            |
| <b>TOTAL</b>  | <b>15</b>    | <b>TOTAL</b>  | <b>13</b>    |