



**Biology-Chemistry Double Major**  
**Total Credits 136**

**Year 1**

| First Semester |                                  | Cr. Grade |  |
|----------------|----------------------------------|-----------|--|
| Chem 125       | General Chemistry I              | 3         |  |
| Hum 101        | English Composition I            | 3         |  |
| Math 111       | Calculus I                       | 4         |  |
| BNFO 135       | Introduction to Computer Science | 3         |  |
| R120:101       | General Biology I                | 4         |  |
| Frsh           | Freshman Seminar                 | 0         |  |
|                |                                  | <b>17</b> |  |

| Second Semester |                              | Cr. Grade |  |
|-----------------|------------------------------|-----------|--|
| Chem 124        | General Chemistry Laboratory | 1         |  |
| Chem 126        | General Chemistry II         | 3         |  |
| Hum 102         | English Composition II       | 3         |  |
| Math 112        | Calculus II                  | 4         |  |
| PE              | Physical Education           | 1         |  |
| R120:102        | General Biology II           | 4         |  |
|                 |                              | <b>16</b> |  |

**Year 2**

| First Semester |                             | Cr. Grade |  |
|----------------|-----------------------------|-----------|--|
| Chem 221       | Analytical Chemical Methods | 2         |  |
| Chem 222       | Analytical Chemistry        | 3         |  |
| Chem 243       | Organic Chemistry I         | 3         |  |
| Math 211       | Calculus III                | 3         |  |
| Phys111        | Physics I                   | 3         |  |
| Phys 111A      | Physics I Laboratory        | 1         |  |
| Elective       | Cultural History GUR        | 3         |  |
|                |                             | <b>18</b> |  |

| Second Semester |                              | Cr. Grade |  |
|-----------------|------------------------------|-----------|--|
| Chem 244        | Organic Chemistry II         | 3         |  |
| Chem 244A       | Organic Chemistry Laboratory | 2         |  |
| Phys 121        | Physics II                   | 3         |  |
| Phys 121A       | Physics II Laboratory        | 1         |  |
| R120:301        | Foundations of Biology       | 3         |  |
| R120:302        | Foundations Laboratory       | 1         |  |
| EPS 202         | Society Technology & Environ | 3         |  |
| PE              | Physical Education           | 1         |  |
|                 |                              | <b>17</b> |  |

**Year 3**

| First Semester |                               | Cr. Grade |  |
|----------------|-------------------------------|-----------|--|
| Chem 231       | Physical Chemistry I          | 3         |  |
| Chem 473       | Biochem I                     | 3         |  |
| Elective       | Math Cognate (3 or 4 credits) | 3         |  |
| Elective       | Biology Laboratory            | 4         |  |
| Elective       | Biology                       | 3         |  |
|                |                               | <b>16</b> |  |

| Second Semester |                          | Cr. Grade |  |
|-----------------|--------------------------|-----------|--|
| Chem 235        | Physical Chemistry II    | 3         |  |
| Mgmt 390        | Principles of Management | 3         |  |
| Elective        | Biology                  | 3         |  |
| Chem 474        | Biochemistry II          | 3         |  |
| SS201           | Economics                | 3         |  |
| Elective        | Lit/Hist/Phil/STS - GUR  | 3         |  |
|                 |                          | <b>18</b> |  |

**Year 4**

| First Semester |                                  | Cr. Grade |  |
|----------------|----------------------------------|-----------|--|
| Chem 235A      | Physical Chemistry II Laboratory | 2         |  |
| Elective       | Biology                          | 3         |  |
| Chem 480       | Instrumental Analysis            | 2         |  |
| Elective       | Biology Laboratory               | 4         |  |
| Math 333       | Probability and Statistics       | 3         |  |
| Chem 475       | Biochemistry Lab                 | 2         |  |
|                |                                  | <b>16</b> |  |

| Second Semester |                        | Cr. Grade |  |
|-----------------|------------------------|-----------|--|
| Chem 336        | Physical Chemistry III | 3         |  |
| Elective        | Chemistry              | 3         |  |
| Chem 412        | Inorganic Chemistry    | 3         |  |
| Elective        | Biology                | 3         |  |
| HSS 4**         | HSS Capstone           | 3         |  |
| Elective        | Open GUR               | 3         |  |
|                 |                        | <b>18</b> |  |

Biology Credits: **35**  
 Chemistry Credits: **47**  
 Total Credits **136**