

## Curriculum Matrix

### B.S. in Biochemistry

| CHEM Course<br>*Lab Course<br>WP=<br>Writing proficiency course<br>C=<br>GE Capstone | Goal 1<br>Understand Chem. Theory                                    |   |   | Goal 2<br>Profic. Lab Manipulations              |  |   | Goal 3<br>Quant. Analysis Exp. Data                   |  |   | Goal 4<br>Written & Oral Commun.                  |                                   |                                  |
|--|--|---|---|--|--|---|---|--|---|---|-----------------------------------|----------------------------------|
|  | Outcome A<br>Use basic underst. of matter to explain complex phenom. | Outcome B<br>Theory in inorganic organic physical analytical biochem. | Outcome C<br>Apply math to chem. concepts | Outcome A<br>Chem. analysis with modern instrum. | Outcome B<br>Design & modify instrum. based exp. | Outcome C<br>Chem. safety & environ. impact | Outcome A<br>Analysis exp. results using chem. theory | Outcome B<br>Perform analyses with good accuracy & precision | Outcome C<br>Treat data with statistics on a computer | Outcome A<br>Retrieve info. From chem. literature | Outcome B<br>Well written reports | Outcome C<br>Clear oral present. |
| 111*   | i  | i   | i   | i  |  | i   | i   | i  | i   |   | i                                 |                                  |
| 112*   | i  | i   | i   | i  |  | i   | i   | i  | i   |   | i                                 |                                  |
| 270*   | i/p  | i   |   | i  |  | i   | i   | i  |   |   | i                                 |                                  |
| 320*   | p  | p   | p   | i/p  | i/p  | p   | p/m   | p/m  | i/p/m   |   | m                                 |                                  |
| 331  | m  | m   | m   |  |  |   |   |  |   |   |                                   |                                  |
| 361  | m  | p   | p   |  |  |   | p   |  |   | p   |                                   |                                  |
| 370  | p/m  | p/m   |   | i  |  | p   | p   | p  |   |   | p                                 |                                  |
| 370M*  | p  | p   |   | p  | p  | p   | p   | p  | i   | i   | p                                 | i                                |
| 381*   | m  | m   | i   | m  | p/m  | m   | m   | m  | p/m   |   |                                   |                                  |
| 401 (WP)   |  |   |   |  |  |   |   |  |   | m   | p                                 | m                                |
| 451  | m  | p   | p   |  |  |   |   |  |   |   |                                   |                                  |
| 452  | m  | m   |   |  |  |   |   |  |   |   |                                   | m                                |
| 453M*(WP)  |  |   |   | m  | m  | m   | m   | p  | p   | m   | m                                 | m                                |

Abbreviations: (i) introduction, (p) practice, (m) mastery.