

**LOYOLA UNIVERSITY CHICAGO**  
**BIOINFORMATICS MAJOR SAMPLE SCHEDULE – NON PRE-HEALTH**

| FALL  | YEAR 1  | SPRING                 |
|---|---|------------------------|
| <b>BIOL 101 General Biology I (3)</b>               | <b>CHEM 102 General Chemistry B (3)</b>             |                        |
| <b>CHEM 101 General Chemistry A (3)</b>             | <b>CHEM 112 General Chemistry Lab B (1)</b>         |                        |
| <b>CHEM 111 General Chemistry Lab A (1)</b>         | <b>COMP 170 Intro. to Programming (3)</b>           |                        |
| <b>COMP 163 Data Structures (3)</b>                 | <b>MATH 132 (or 162) Calculus II (3-4)</b>          |                        |
| <b>MATH 131 (or 161) Calculus I (3-4)</b>           | <b>CORE Artistic Knowledge &amp; Experience (3)</b> |                        |
| <b>CORE Writing Seminar (3)</b>                     | <b>CORE Historical Knowledge (3)</b>                |                        |
| <b>16 credit hours</b>                              |   | <b>16 credit hours</b> |
| <b>YEAR 2</b>                                       |   |                        |
| <b>BIOL 282 Genetics (3)</b>                        | <b>BIOI 387 Genomics (3)</b>                        |                        |
| <b>BIOL 283 Genetics Lab (2)</b>                    | <b>CHEM 224 Organic Chemistry B (3)</b>             |                        |
| <b>CHEM 223 Organic Chemistry A (3)</b>             | <b>CORE Societal &amp; Cultural knowledge (3)</b>   |                        |
| <b>COMP 271 Discrete Structures (3)</b>             | <b>CORE Literary Knowledge &amp; Experience (3)</b> |                        |
| <b>CORE Theological &amp; Religious Studies (3)</b> | <b>CORE Literary Knowledge &amp; Experience (3)</b> |                        |
| <b>CAS Elective (1)</b>                             |   |                        |
| <b>15 credit hours</b>                              |   | <b>15 credit hours</b> |
| <b>YEAR 3</b>                                       |   |                        |
| <b>BIOI 388 Bioinformatics (3)</b>                  | <b>BIOI 366 Biochemistry (3)</b>                    |                        |
| <b>BIOI 390* Molecular Biology Lab (4)</b>          | <b>STAT 335 Introduction to Biostatistics (4)</b>   |                        |
| <b>CORE Societal &amp; Cultural knowledge (3)</b>   | <b>BIOI 363 Design &amp; Analysis of Algos. (3)</b> |                        |
| <b>CORE Theological &amp; Religious Studies (3)</b> | <b>CORE Philosophical knowledge (3)</b>             |                        |
| <b>CAS Elective (3)</b>                             | <b>CORE Historical knowledge (3)</b>                |                        |
| <b>16 credit hours</b>                              |   | <b>16 credit hours</b> |
| <b>YEAR 4</b>                                       |   |                        |
| <b>BIOI 386 Proteomics (3)</b>                      | <b>BIOI 337‡ Quantitative Bioinformatics (4)</b>    |                        |
| <b>BIOI 399† Bioinformatics Research (2)</b>        | <b>BIOI 383 Computational Biology (4)</b>           |                        |
| <b>CAS Elective (3)</b>                             | <b>BIOI 399† Bioinformatics Research (4)</b>        |                        |
| <b>CAS Elective (3)</b>                             | <b>CAS Elective (3)</b>                             |                        |
| <b>CAS Elective (3)</b>                             | <b>CAS Elective (3)</b>                             |                        |
| <b>CAS Electives (3)</b>                            |   |                        |
| <b>17 credit hours</b>                              |   | <b>17 credit hours</b> |

\*May substitute BIOL 391; ‡May substitute STAT 336; †May substitute BIOI 398