## Sample Schedule B.S. Bioinformatics/ M.S. Bioinformatics Non-thesis Track

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
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</table>
| 1    | General Biology (BIOL 101) (3)  
 General Chemistry A (CHEM 101) (3)  
 Applied Calculus I (MATH 131) (3)  
 CORE: College Writing Seminar (3)  
 CORE: Theology and Religious Studies Tier 1 (3) | General Chemistry B (CHEM 102) (3)  
 Intro to Computing Tools (COMP 141) (3)  
 Applied Calculus II (MATH 132) (3)  
 CORE: Ethics (3)  
 CORE: Theology and Religious Studies Tier 2 (3) |
|      | Total Credit Hours: 15 | Total Credit Hours: 15 |
| 2    | Genetics (BIOL 282) (3)  
 Genetics Lab (BIOL 283) (1)  
 Organic Chemistry A (CHEM 223) (3)  
 Intro to Programming (MATH 215) (3)  
 CORE: Historical Knowledge Tier 1 (3)  
 CORE: Philosophical Knowledge Tier 1 (3) | Organic Chemistry B (CHEM 224) (3)  
 Data Structures & Algorithms (COMP 231) (3)  
 CAS Elective (3)  
 CORE: Historical Knowledge Tier 2 (3)  
 CORE: Philosophical Knowledge Tier 2 (3) |
|      | Total Credit Hours: 16 | Total Credit Hours: 15 |
| 3    | Bioinformatics (BIOL 388) (3)  
 Biochemistry (CHEM 361) (3)  
 CAS Elective (3)  
 CAS Language Requirement 1 (3)  
 CORE: Literary Knowledge & Experience Tier 1 (3) | Introduction to Biostatistics (STAT 335) (3)  
 Genomics (BIOL 387) (3)*  
 CAS Language Requirement 2 (3)  
 CORE: Literary Knowledge & Experience Tier 2 (3)  
 CORE: Societal and Cultural Knowledge Tier 1 (3)  
 * APPLY FOR B.S./M.S. PROGRAM * |
|      | Total Credit Hours: 15 | Total Credit Hours: 15 |
| 4    | Exploring Proteins (BIOI 565) (3)*  
 B.S. Bioinformatics COMP elective (3) or  
 Molecular Biology Lab (BIOL 390) (4)  
 CAS Elective (3)  
 CORE: Societal and Cultural Knowledge Tier 2 (3)  
 CORE: Artistic Knowledge and Experience (3) | Bioinformatics Seminar (BIOI 501) (1)  
 Quant. Bioinformatics (STAT 437) (3)  
 Computational Biology (COMP 483) (4)  
 CAS Elective (3)  
 Undergraduate Capstone (BIOL 397/398/399) (4) |
|      | Total Credit Hours: 15 (or 16) | Total Credit Hours: 15 |
| 5    | Bioinformatics Elective (3)  
 Bioinformatics Elective (3)  
 Bioinformatics Internship (BIOI 498) (1) | Advanced Bioinformatics (BIOL 500) (3)  
 Bioinformatics Elective (3)  
 Bioinformatics BIOL Elective (3)c  
 Bioinformatics Elective (3) |
|      | Total Credit Hours: 7 | Total Credit Hours: 12 |

Bold indicates courses required of the M.S. degree, totaling 30 credit hours. Courses which could be applied towards both the B.S. and M.S. degrees are in blue. Three 300-level required courses for GPA requirement for admission into B.S./M.S. program; eligible courses are shown in purple. Footnotes: *Alternatively, Metagenomics (BIOL 392) can be taken [Fall only]; †Alternatively Proteomics (CHEM 465) can be taken [Spring odd years only]; ‡If Bioinformatics (BIOL 388) taken at the undergraduate level, at least one BIOL elective must be completed.