

## Sample Schedule B.S. Bioinformatics/ M.S. Bioinformatics Thesis Track

	Fall	Spring
<b>Year 1</b>	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)
	<i>Total Credit Hours: 15</i>	<i>Total Credit Hours: 15</i>
<b>Year 2</b>	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)
	<i>Total Credit Hours: 16</i>	<i>Total Credit Hours: 15</i>
<b>Year 3</b>	Bioinformatics (BIOL 388) (3) Biochemistry (CHEM 361) (3) Undergraduate Capstone (BIOI 397/398/399) (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) <sup>a</sup> Undergraduate Capstone (BIOI 397/398/399) (1) CAS Language Requirement 2 (3) CORE: Literary Knowledge & Experience Tier 2 (3) CORE: Societal and Cultural Knowledge Tier 1 (3) <b>* APPLY FOR B.S./M.S. PROGRAM *</b>
	<i>Total Credit Hours: 18</i>	<i>Total Credit Hours: 16</i>
<b>Year 4</b>	<b>RCRS (UNIV 370) (0)</b> <b>Bioinformatics Research Design (BIOI 494) (1)</b> <b>Exploring Proteins (BIOI 565) (3)<sup>b</sup></b> B.S. Bioinformatics COMP elective (3) <i>or</i> Molecular Biology Lab (BIOL 390) (4) CAS Elective (3) CORE: Societal and Cultural Knowledge Tier 2 (3)	<b>Bioinformatics Seminar (BIOI 501) (1)</b> <b>Computational Biology (COMP 483) (4)</b> <b>Quant. Bioinformatics (STAT 437) (3)</b> CAS Elective (3) CORE: Artistic Knowledge and Experience (3)
	<i>Total Credit Hours: 13 (or 14)</i>	<i>Total Credit Hours: 14</i>
<b>Year 5</b>	<b>Bioinformatics Research (BIOI 499) (8)</b>	<b>Advanced Bioinformatics (BIOI 500) (3)</b> <b>Bioinformatics Elective (3)</b> <b>Bioinformatics BIOL Elective (3)<sup>c</sup></b> <b>Thesis (BIOI 595) (1)</b>
	<i>Total Credit Hours: 8</i>	<i>Total Credit Hours: 10</i>

Bold indicates courses required of the M.S. degree, totaling 30 credit hours. Courses 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: <sup>a</sup>Alternatively, Metagenomics (BIOL 392) can be taken [Fall only]; <sup>b</sup>Alternatively, Proteomics (CHEM 465) can be taken [Spring odd years only]; <sup>c</sup>If Bioinformatics (BIOL 388) taken at the undergraduate level, at least one BIOL elective must be completed.