

## B.S. in Bioinformatics Sample Course Schedule – Pre-Health Majors

### YEAR 1

Fall	Spring
BIOL 101 General Biology I (3) BIOL 111 General Biology Lab I (1)* CHEM 101 General Chemistry A (3) CHEM 111 General Chemistry Lab A (1) COMP 170 Intro. to Programming (3) MATH 131 (or 161) Calculus I (3) CORE Writing Seminar (3)	BIOL 102 General Biology II (3)* BIOL 112 General Biology Lab II (1)* CHEM 102 General Chemistry B (3) CHEM 112 General Chemistry Lab B (1) COMP 171 Scripting Languages Lab (1) COMP 271 Data Structures (3) MATH 132 (or 162) Calculus II (3)
17 credit hours	15 credit hours

### YEAR 2

Fall	Spring
BIOL 282 Genetics (3) BIOL 283 Genetics Lab (2) CHEM 223 Organic Chemistry A (3) CHEM 225 Organic Chemistry Lab A (1) COMP 163 Discrete Structures (3) CORE Theological and Religious Studies (3)	BIOL 387 Genomics (3) CHEM 224 Organic Chemistry B (3) CHEM 226 Organic Chemistry Lab B (1) COMP 363 Design and Analysis of Algos. (3) CORE Literary Knowledge and Experience (3) CORE Theological and Religious Studies (3)
15 credit hours	16 credit hours

### YEAR 3

Fall	Spring
CHEM 361 or BIOL 366 Biochemistry (3) STAT 335 Introduction to Biostatistics (4) PHYS 111 College Physics I (3)* PHYS 131 College Physics Lab I (1)* CORE Societal and Cultural Knowledge (3) CAS Elective or BIOL 251 Cell Biol. (3)*	BIOL 388 Bioinformatics (3) BIOL 390 Molecular Biology Lab (4) COMP 353 Database Programming (3) PHYS 112 College Physics II (3)* PHYS 132 College Physics II (1)* CORE Historical Knowledge (3)
17 credit hours	17 credit hours

### YEAR 4

Fall	Spring
CHEM 365 Proteomics (3) COMP 383 Computational Bioinf. (3) CORE Philosophical Knowledge (3) CORE Historical Knowledge (3) CORE Artistic Knowledge and Experience (3)	BIOL 294 Ethical Issues in Bioinf. (3) STAT 337 Quant. Methods in Bioinf. (4) CORE Societal and Cultural Knowledge (3) CORE Literary Knowledge and Experience (3) CAS Elective (3)
15 credit hours	16 credit hours

**Total: 128 credit hours**

\*recommended classes not required for the major