

LOYOLA UNIVERSITY CHICAGO
B.S. IN BIOINFORMATICS
MAJOR SAMPLE SCHEDULE – PRE-HEALTH
 (classes recommended for pre-health students that are not required
 for the Bioinformatics major are in *italics*)

FALL	YEAR 1	SPRING
YEAR 1		
BIOL 101 General Biology I (3)	<i>BIOL 102 General Biology II (3)</i>	
<i>BIOL 111 General Biology Lab I (1)</i>	<i>BIOL 112 General Biology Lab II (1)</i>	
CHEM 101 General Chemistry A (3)	CHEM 102 General Chemistry B (3)	
CHEM 111 General Chemistry Lab A (1)	CHEM 112 General Chemistry Lab B (1)	
COMP 163 Discrete Structures (3)	COMP 170 Intro. to Programming (3)	
MATH 131 (or 161) Calculus I (3-4)	MATH 132 (or 162) Calculus II (3-4)	
CORE Writing Seminar (3)	CORE Artistic Knowledge & Experience (3)	
17 credit hours		17 credit hours
YEAR 2		
BIOL 282 Genetics (3)	BIOI 387 Genomics (3)	
BIOL 283 Genetics Lab (2)	CHEM 224 Organic Chemistry B (3)	
CHEM 223 Organic Chemistry A (3)	<i>CHEM 226 Organic Chemistry Lab B (1)</i>	
<i>CHEM 225 Organic Chemistry Lab A (1)</i>	STAT 335 Intro. to Biostatistics (4)	
COMP 271 Data Structures (3)	CORE Societal & Cultural knowledge (3)	
CORE Theological & Religious Studies (3)	CORE Literary Knowledge & Experience (3)	
15 credit hours		17 credit hours
YEAR 3		
BIOI 388 Bioinformatics (3)	BIOI 366 (CHEM 361) Biochemistry (3)	
<i>BIOL 251 Cell Biol. (3)</i>	BIOI 363 Design & Analysis of Algos. (3)	
<i>PHYS 111 College Physics I (3)</i>	<i>PHYS 112 College Physics II (3)</i>	
<i>PHYS 131 College Physics Lab I (1)</i>	<i>PHYS 132 College Physics II (1)</i>	
CORE Historical Knowledge (3)	CORE Literary Knowledge & Experience (3)	
CORE Theological & Religious Studies (3)	CORE Philosophical knowledge (3)	
16 credit hours		16 credit hours
YEAR 4		
BIOI 386 Proteomics (3)	BIOI 337‡ Quant. Methods in Bioinf. (3)	
BIOI 399† Bioinformatics Research (3)	BIOI 383 Computational Biology (4)	
CORE Historical knowledge (3)	BIOI 399† Bioinformatics Research (2)	
CORE Societal & Cultural knowledge (3)	BIOI 390* Molecular Biology Lab (4)	
CAS Elective (3)	CAS Elective (3)	
15 credit hours		16 credit hours

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