LOYOLA UNIVERSITY CHICAGO  
B.S. IN BIOINFORMATICS  
MAJOR SAMPLE SCHEDULE – PRE-HEALTH  
CLASSES RECOMMENDED FOR PRE-HEALTH STUDENTS THAT ARE NOT REQUIRED FOR THE MAJOR ARE IN BLUE

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<th>FALL</th>
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<td><strong>YEAR 1</strong></td>
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| BIOL 101 General Biology I (3)  
**BIOL 111 General Biology Lab I (1)** | BIOL 102 General Biology II (3)  
**BIOL 112 General Biology Lab II (1)** |
| CHEM 101 General Chemistry A (3)  
**CHEM 111 General Chemistry Lab A (1)** | CHEM 102 General Chemistry B (3)  
**CHEM 112 General Chemistry Lab B (1)** |
| COMP 163 Discrete Structures (3)  
MATH 131 Applied Calculus I (3)  
CORE UNIV 101 (1) | MATH 132 Applied Calculus I (3)  
CORE Tier 1 – Historical (3)  
CORE Writing Seminar (3) |
| 15 Credit Hours | 17 Credit Hours |
| BIOL 102 General Biology II (3)  
**BIOL 112 General Biology Lab II (1)** | CHEM 224 Organic Chemistry B (3)  
**CHEM 226 Organic Chemistry Lab B (1)** |
| COMP 170 Intro to Programming (3)  
**PHYS 112 College Physics II (3)**  
**PHYS 112L College Physics Lab II (1)** | **BIOL 251 Cell Biology (3) <<recommended not required>>**  
CORE Tier 1 – Societal (3) |
| CHEM 223 Organic Chemistry A (3)  
**CHEM 225 Organic Chemistry Lab A (1)**  
**PHYS 111 College Physics I (3)**  
**PHYS 111L College Physics Lab I (1)** | **CORE Tier 1 – Literary (3)**  
**CORE Tier 1 – Artistic (3)** |
| CORE Tier 1 – Theological (3)  
CORE Tier 1 – Ethical (3) | 17 Credit Hours |
| **18 Credit Hours** | **17 Credit Hours** |

**YEAR 2**

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| BIOI 399 Bioinformatics Research (1)  
BIOL 388 Bioinformatics (3)  
CHEM 361 Biochemistry (3)  
COMP 271 Data Structures (3)  
CORE Tier 1 – Theological (3)  
CORE Tier 1 – Ethics (3) | BIOI 399 Bioinformatics Research (2)  
CHEM 365 Proteomics (3) (Spring Odd)  
COMP 383 Computational Biology (4) (Spring Even)  
STAT 335 Intro to Biostatistics (4)  
CORE Tier 1 – Philosophical (3) |
| 16 Credit Hours | 16 Credit Hours |

**YEAR 3**

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| BIOI 399 Bioinformatics Research (2)  
STAT 337 Advanced Biostatistics (3)  
COMP 363 Design & Analysis of Algorithms (3)  
CORE Tier 2 – Societal (3)  
CORE Tier 2 – Philosophical (3)  
CORE Tier 2 – Literary (3) | BIOI 399 Bioinformatics Research (3)  
BIOI 387 Genomics (3)  
BIOI 390 Molecular Biology Lab (4)  
CORE Tier 2 – Theological (3)  
CORE Tier 2 – Historical (3) |
| 17 Credit Hours | 16 Credit Hours |

**Note:** College of Arts & Sciences also require 2 Writing Intensive (WI) courses; many CORE Tier 2 courses are also available as WI. Language Requirement: Either by passing a competency test or passing a course at level 102 or higher.

1 May substitute with MATH 161; 2 May substitute with MATH 162; 3 May substitute with CHEM 221; 4 May substitute with CHEM 222; 5 May substitute with BIOI 398 and may be repeated more than once (although only 1 credit hour is required); 6 Choose 2 of the 3 courses; 7 CHEM 365 is offered every spring semester of odd years; 8 COMP 383 is offered every spring semester of even years; 9 CHEM 365 is offered every spring semester of odd years; 10 STAT 337; 11 Spring only. 12 May substitute with BIOI 392.