

# Typical Five-Year Bachelor of Science Degree in Bioinformatics

The following is one possible sequence of courses to complete a degree in 5 years. The Department requires that each student verify their course plan with a faculty adviser.

## 1<sup>st</sup> Year

### Fall

(4) CSCI 125 Programming in Visual Basic  
 (4) MATH 211 Basic Calculus I [B.1]  
 (4) COMM 120 Oral Communication [A.2]  
 (12)

### Winter

(4) CSCI 201 CS I  
 (4) MATH 212 Calculus II  
 (4) ENG 101 Freshman Comp.[A.1]  
 (12)

### Spring

(4) CSCI 202 CS II  
 (5) BIOL 100 [B.2]  
 (2) CS 122 [B.4]  
 (11)

## 2<sup>nd</sup> Year

### Fall

(4) MATH 262 Applied Statistics  
 (5) BIO 200 Biology of Cell  
 (6) CHEM 215 General Chemistry I  
 (15)

### Winter

(5) BIO 201 Biology of Organisms  
 (4) HIST 146 American Civilization [D.1]  
 (6) CHEM 216 General Chemistry II  
 (15)

### Spring

(4) MATH 272 Discrete Math  
 (5) BIO 202  
 (4) Critical thinking [A.4]  
 (13)

## 3<sup>rd</sup> Year

### Fall

(4) CHEM 221 Organic Chemistry I  
 (4) CSCI 330 Data Structures  
 (4) MATH 372 Combinatorics  
 (4) Foreign Language [C.3]  
 (16)

### Winter

(4) CHEM 222 Organic Chemistry II  
 (5) CHEM 451 Chemistry for Biochemist  
 (4) Art [C.1]  
 (13)

### Spring

(5) CHEM 223 Organic Chemistry III  
 (5) PHYS 221 General Physics I  
 (4) PHIL 191 [C.4]  
 (4) Natural Sciences Capstone [B.5]  
 (18)

## 4<sup>th</sup> Year

### Fall

(4) CSCI 572 Database  
 (5) BIO 300 Cell Physiology  
 (4) PSCI 203 American Gov [D.2]  
 (13)

### Winter

(5) BIO 400 Molecular Biology  
 (4) CSCI 455 Software Engineering  
 (4) CSCI 431 Algorithm Analysis  
 (4) Humanities Capstone [C.5]  
 (17)

### Spring

(4) CSCI 550 Advance Bioinformatics I  
 (5) CHEM 436 Biochemistry  
 (4) NSCI 306 Expository Writing [F.1]  
 (13)

## 5<sup>th</sup> Year

### Fall

(4) CSCI 535 Numerical Computation  
 (4) CSCI 551 Advance Bioinformatics II  
 (2) Whole Person [E.1]  
 (4) CSCI 500 Automata  
 (14)

### Winter

(4) BIO 421 Genetics (Elective)  
 (4) Discipline Perspective [D.4]  
 (2) Whole Person [E.2]  
 (2) Physical Education [E.3]  
 (12)

### Spring

(4) World Cultures [D.3]  
 (4) Social & Behavioral Capstone [D.5]  
 (4) Literature [C.2]  
 (12)

[ ] Refers to General Education Categories

The yearly schedule of courses on which this plan is based is subject to revision without prior notice.