

Bioinformatics

Recommended Four-Year Plan (Fall 2017)

The recommended four-year plan is designed to provide a blueprint for students to complete their degrees within four years. Students must meet with their Major Advisor to develop a more individualized plan to complete their degree. This plan assumes that no developmental courses are required. If developmental courses are needed, students may have additional requirements to fulfill which are not listed in the plan and may extend degree completion.

NOTE: This recommended Four-Year Plan is applicable to students admitted into the major during the 2017-2018 academic year.

First Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
Gen Ed: INTD 101-First Year Seminar	4		BIOL 112-Fundamentals of Biology II*	4	
CHEM 111-General Chemistry I Lec & Lab	4+1		CHEM 112-General Chemistry II Lec & Lab *	4+1	
BIOL 110-Fundamentals of Biology I Lec & Lab WI	4+1		CMPS 147-Computer Science I	4	
			Gen Ed: CRWT 102-Critical Reading & Writing II	4	
Total:	14		Total:	17	

Second Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
CHEM 210-Organic Chemistry I* or CHEM 205-Bio-Organic Chemistry	4+1		CHEM 212-Organic Chemistry II Lec & Lab*	4+1	
CMPS 148-Computer Science II*	4		BIOL 331-Genetics Lec & Lab*	4+1.5	
PSYC 242-Statistics or ENSC 345-Research Design & Statistics	4		MATH 237-Discrete Structures*	4	
Gen Ed: MATH 121- Calculus I*	4				
Total:	17		Total:	14.5	

Third Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
BIOL 406-Cell & Molecular Biology Lec & Lab* WI	4+1.5		BIIN 430-Bioinformatics*	4	
CMPS 231-Data Structures*	4		CMPS 364-Database Design*	4	
Bioinformatics Elective (Group I)	4		Gen Ed: AIID 201-Readings in Humanities	4	
Gen Ed: History	4		Gen Ed: Social Issues	4	
Total:	17.5		Total:	16	

Fourth Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
CMPS 345-Analysis of Algorithms*	4		BIIN 450-Advanced Bioinformatics* WI	4	
Gen Ed: International Issues	4		Gen Ed: Intercultural North America	4	
Bioinformatics Elective (Group II)	4		Bioinformatics Elective (Group I or II or two semesters Honors Research)	4	
Gen Ed: Global Awareness	4		Elective(s)	3.5	
Total:	16		Total:	15.5	

Total Credits Required: 128 credits

GPA: 2.0

* This course has a pre-requisite. Please refer to the course catalog for information about pre-requisites.

WI: Writing Intensive-3 required in the major