

Bioinformatics

Recommended Graduation Plan (Fall 2025)

The recommended graduation plan is designed to provide a blueprint for students to complete their degrees on time. Students must meet with their Academic Advisor to develop a more individualized plan to complete their degree.

NOTE: This recommended Graduation Plan is applicable to students admitted into the major during the 2025-2026 academic year.

CRWT Placement
CRWT 101 to CRWT 102
CRWT 101S to CRWT 102S

Math Placement
MATH 022 to MATH 024 to MATH 110

NOTE: CRWT and MATH courses are determined by placement testing and should be taken following the sequence above.

First Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
Gen Ed: INTD 101-First Year Seminar	4		BIOL 113 & BIOL 113L-Fundamentals of Biology II Lecture & Lab*	4+1	
Gen Ed: CHEM 116 & CHEM 116L-General Chemistry I Lecture & Lab	4+1		CHEM 117 & CHEM 117L-General Chemistry II Lecture & Lab*	4+1	
Gen Ed: CRWT 102 - Critical Reading & Writing II	4		CMPS 130 - Sci Problem Solving-Python	4	
BIOL 111 & BIOL 111L-Fundamentals of Biology I Lecture & Lab WI	4+1		Gen Ed: MATH 121-Calculus I*	4	
			TAS Pathways Module 1: (PATH-TS1) Career Assessment/ Advising	Degree Rqmt.	
Total:	18		Total:	18	

Second Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
CHEM 211 & CHEM 211L -Organic Chemistry I Lecture & Lab * OR CHEM 206 & CHEM 206L-Essentials of Organic Chemistry Lecture* & Lab*	4+1		CHEM 213 & CHEM 213L-Organic Chemistry II Lecture* & Lab* OR Elective(s)	4+1	
CMPS 240-Data Analytics in Python*	4		BIOL 332 & BIOL 332L-Genetics Lecture & Lab*	4+1.5	
DATA 101-Introduction to Data Science	4		PSYC 242-Statistics* OR ENSC 345-Research Design & Statistics*	4	
General Education Requirement	4				
TAS Pathways Module 2: (PATH-TS2) Resume/ CV Writing	Degree Rqmt.		TAS Pathways Module 3: (PATH-TS3) Interview Preparation	Degree Rqmt.	
Total:	17		Total:	14.5	

Third Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
BIOL 407 & BIOL 407L-Cell & Molecular Biology Lecture* & Lab* WI	4+1.5		BIIN 430-Bioinformatics*	4	
MATH 237-Discrete Structures*	4		CMPS 364-Database Design*	4	
Bioinformatics Elective (Group I)	4		General Education Requirement	4	
General Education Requirement	4		General Education Requirement	4	
Total:	17.5		Total:	16	

Fourth Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
Bioinformatics Elective (Group II)	4		BIIN 450-Advanced Bioinformatics* WI	4	
General Education Requirement	4		General Education Requirement	4	
Bioinformatics Elective (one semester Honors Research)	0-1		Bioinformatics Elective (Group I or II or second semester Honors Research)	1 or 4	
Bioinformatics Elective (Group II)	4		Free Elective (minor, certificate, or second major requirement)	2-5	
Free Elective (minor, certificate, or second major requirement)	1-2				
Total:	14		Total:	14	

Total Credits Required: 128 credits

GPA Required: 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

General Education courses can be done in any order with the exception of INTD 101, CRWT and MATH. Those three general education courses will need to be done first. First Year Seminar is taken in the first semester. Failure to complete CRWT and MATH will result in a hold when the student hits 64 credits. The following general education courses can be done in any order. For more info on these courses, please visit the [General Education program requirements website in the College Catalog](#):

- Social Science Inquiry (SOSC 110) [+W]
- Scientific Reasoning
- Historical Perspectives [+W]
- Studies in the Arts & Humanities (*CRWT 102 is a prerequisite to this course*) [+W]
- Global Awareness [+W]
- Distribution Category (Social Systems & Society **OR** Culture & Creativity **OR** Values and Ethics) (**Must be outside of TAS**)
- Distribution Category

+W: Students transferring in with 48 or more credits are waived from these general education requirements.