BIOINFORMATICS AND COMPUTATIONAL BIOLOGY MAJOR
Program Tracking Sheet
Effective for students entering AY 2025-2026

Name:	Class Year:
Advisor:	2nd Major:

NOTES: Minimum total academic credit = 15 units
Residency Req.: Min. of 8 units must be completed at WPI

HUMANITIES AND ARTS (6/3 unit)
All 5 HUA courses must be completed before beginning the Inquiry Seminar or Practicum. The Humanities and Arts Department will accept a maximum of 1/3 unit of AP credit towards the Humanities and Arts requirement.

Depth Component
Students must complete at least three thematically-related courses prior to the culminating Inquiry Seminar or Practicum in the same thematic area. At least one of the three courses should be at the 2000-level or above.

	Course	Term	Grade	Units
1				1/3
2				1/3
3				1/3
4	HU 3900 or HU 3910			1/3

Breadth Component
Students must take at least one course outside the grouping in which they complete their depth component. To identify breadth, courses are grouped in the following manner.
i. art/art history, drama/theatre, and music (AR, TH, MU);
ii. modern languages (AB, CN, ISE, GN, SP);
iii. literature and writing rhetoric (EN, WR);
iv. history, humanities, and international and global studies (HI, HU, INTL);
v. philosophy and religion (PY, RE).
Exception: May take all six courses in a modern language.

5				1/3

Humanities Elective

6				1/3

WELLNESS AND PHYSICAL EDUCATION (4 WPE classes = 1/3 unit)

7				1/12
				1/12
				1/12
				1/12

SOCIAL SCIENCE (2/3 unit) ECON, ENV, GOV, PSY, SD, SOC, SS, STS, DEV and ID2050

8				1/3
9				1/3

THE INTERACTIVE QUALIFYING PROJECT (3/3 unit)

10				1/3
11				1/3
12				1/3

FREE ELECTIVES (3/3 unit)

13				1/3
14				1/3
15				1/3

PROGRAM DISTRIBUTION REQUIREMENTS FOR THE BIOINFORMATICS AND COMPUTATIONAL BIOLOGY MAJOR (30/3 Units) (Notes 1, 2, 3)

MATHEMATICS FOUNDATION (5/3 units) Courses with prefix: MA
Mathematics must include 2/3 unit of differential and integral calculus, 1/3 unit of linear algebra, and 1/3 unit of statistics. The remaining 1/3 unit can be chosen from statistics, probability, calculus, and differential equations.

16				1/3
17				1/3
18				1/3
19				1/3
20				1/3

COMPUTER SCIENCE FOUNDATION (4/3 units) Courses with prefix: CS
Computer Science must include 2/3 unit of introductory programming (one 1000-level and one 2000-level introductory programming course from the CS Foundation list in the course catalog) and 2/3 unit of discrete mathematics and algorithms.

21				1/3
22				1/3
23				1/3
24				1/3

BIOLOGY FOUNDATION (5/3 unit) Courses with prefix: BB
Biology must include 1/3 unit foundational biology courses for life science majors (BB 1101 or BB 1102), 1/3 unit cell biology or genetics, and 1/3 total units BB 2000-level laboratory (one 1/3 unit [preferred] or two 1/6 unit labs). The remaining 2/3 units may be BB lecture (non-laboratory) courses chosen from the Biology Foundation list in the course catalog, or any BB lecture course at the 3000 level or higher.

25				1/3
26				1/3
27				1/3
28				1/3
29	BB 2_ _ _			1/3 or 1/6
29.5	BB 2_ _ _			1/6 (if needed)

CHEMISTRY FOUNDATION (4/3 unit) Course with prefix: CH
Chemistry must include 2/3 unit of general chemistry and 1/3 unit of organic chemistry. Additional chemistry may be chosen from general chemistry, organic chemistry or biochemistry.

30				1/3
31				1/3
32				1/3
33				1/3

BIOINFORMATICS AND COMPUTATIONAL BIOLOGY (2/3 unit)
Chosen from BCB interdisciplinary courses.

34				1/3
35				1/3

SOCIAL IMPLICATIONS (1/3 unit)
Chosen from: CS 3043, GOV 2302, GOV 2311, GOV 2314, GOV 2315, PY 2713, or PY/RE 2731

36				1/3

ADVANCED ELECTIVE COURSES (6/3 unit)
Advanced electives courses supporting Bioinformatics and Computational Biology must be chosen from the Advanced Electives list in the course catalog. Must include at least 1 unit in the 'most related to BCB' category.

37				1/3
38				1/3
39				1/3
40				1/3
41				1/3
42				1/3

MAJOR QUALIFYING PROJECT (3/3)
Bioinformatics MQP (3/3 Units) must have an MQP faculty advisor who has a formal collaborative appointment in the Bioinformatics and Computational Biology program.

43				1/3
44				1/3
45				1/3

Note 1: Students must complete at least 4/3 units of courses at the 4000 level for the BCB major overall.
Note 2: No course may be used to fulfill two requirements. For instance, BCB 4001 may fulfill the BCB requirement or the Advanced Elective requirement, but not both.
Note 3: Students may not receive credit for both BCB 4001 and BCB 501. Students may not receive credit for both BCB 4004 and BCB 504.

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4-year Plan Template

Name:		Class Year:
Advisor(s):		Major(s)/Minor(s):

Year 1					
	A-term	**B-term**	**C-term**	**D-term**	**E-term** (optional)
Course 1					
Course 2					
Course 3					
Course 4 (optional)					

Notes:

Year 2					
	A-term	**B-term**	**C-term**	**D-term**	**E-term** (optional)
Course 1					
Course 2					
Course 3					
Course 4 (optional)					

Notes:

Year 3					
	A-term	**B-term**	**C-term**	**D-term**	**E-term** (optional)
Course 1					
Course 2					
Course 3					
Course 4 (optional)					

Notes:

Year 4					
	A-term	**B-term**	**C-term**	**D-term**	**E-term** (optional)
Course 1					
Course 2					
Course 3					
Course 4 (optional)					

Notes: