

Sample 4-Year Plan: Biology and Data Science

Below is a sample 4-year plan that shows how a student might navigate both the Biology major and Data Science major. This plan indicates both potential areas of overlap and non-overlap. Please note that it is not required that all double majors follow this plan nor is it required that students overlap the maximum number of courses between the two majors. This plan is provided as a tool for students to understand the potential course load between the two majors.

Students are strongly encouraged to review the full curriculum for both majors on the Guide and contact relevant advisors for information on course selection.

- *Biology Guide:*
 - *L&S:* <https://guide.wisc.edu/undergraduate/letters-science/integrative-biology/biology-ba/#requirementstext> (select either Biology BA or BS)
 - *CALS:* <https://guide.wisc.edu/undergraduate/agricultural-life-sciences/bacteriology/biology-bs/#requirementstext> (BS only)
- *Data Science Guide:* <https://guide.wisc.edu/undergraduate/letters-science/statistics/#degreesmajorscertificatetext> (select either Data Science BA or BS)

	Fall		Spring	
	<i>Biology Major Courses</i>	<i>DS Major Courses</i>	<i>Biology Major Courses</i>	<i>DS Major Courses</i>
Year 1	CHEM 103 or 109 (4)		CHEM 104 (5)	MATH 222 (4) COMP SCI 220 (4)
<i>Shared/Gen-ed</i>	MATH 221 (5), electives and gen-ed courses		electives and gen-ed courses	
Year 2	CHEM 343 (3) Intro Biology Course (5)	COMP SCI 320 (4) MATH 340 (3)	CHEM 344 (2) CHEM 345 (3) Intro Biology Course (5)	
<i>Shared/Gen-ed</i>	electives and gen-ed courses		STAT 240 (4), electives and gen-ed courses	
Year 3	Physics (5) Foundation Course for Major (3)	STAT 340 (4)	Physics (5) Upper-level Breadth in the Major (4)	Advanced computing (3)
<i>Shared/Gen-ed</i>	electives and gen-ed courses		electives and gen-ed courses	
Year 4	Upper-Level Breadth in the Major (3) Upper-Level Breadth in the Major Lab or Field Research (3)	L I S 461 (3-4) Machine learning (3) DS elective (3)*	Upper-Level Breadth in the Major (6) Additional Lab or Field Research (2)	Statistical modeling (3) DS elective (3)
<i>Shared/Gen-ed</i>	electives and gen-ed courses		Electives and gen-ed courses	

*F&W ECOL 458 is recommended as overlapping courses between DS major electives and Biology Upper-Level Breadth in the Major

Created August 2025