Sample 4-Year Plan: Mathematics for Data & Risk Analysis and Data Science

Below is a sample 4-year plan that shows how a student might navigate both the Mathematics major ((Data & Risk Analysis option) 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.

- *Mathematics for Data and Risk Analysis Option Guide*: https://guide.wisc.edu/undergraduate/letters-science/mathematics/mathematics-ba/mathematics-mathematics-data-risk-analysis-ba/
- *Data Science Guide*: https://guide.wisc.edu/undergraduate/letters-science/statistics/#degreesmajorscertificatestext (select either Data Science BA or BS)

	Fall		Spring	
	Math Major Courses	*DS Major Courses*	*Math Major Courses*	*DS Major Courses*
Year 1		COMP SCI 220 (4)		COMP SCI 320 (4)
Shared/Gen-ed	MATH 221 (5), electives and gen-ed courses		MATH 222 (4), electives and gen-ed courses	
Year 2	MATH 234* (4)	STAT 240 (4)		
Shared/Gen-ed	electives and gen-ed courses		MATH 431, 309, or 531* (3), MATH 320, 340, 341 or 375* (3), STAT 340 (4), electives and gen-ed courses	
Year 3		L I S 461 (3-4)	Intermediate Math (3)	
Shared/Gen-ed	STAT 424 (3), STAT 310 (3), electives and gen-ed courses		MATH 513 (3), electives and gen-ed courses	
Year 4	Data/Risk course (3) MATH 632 recommended		Data/Risk course (3)	
Shared/Gen-ed	MATH 535 (3), electives and gen-ed courses		electives and gen-ed courses	

*Students planning on MATH 375/6 and MATH 531 will need to modify this plan to account for prerequisites and course order – recommended that those students talk to an advisor – Updated July 8, 2022