

Sample 4-Year Plan: Data Science and Statistics

Below is a sample 4-year plan that shows how a student might navigate both the Statistics 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.

- *Data Science Guide:* <https://guide.wisc.edu/undergraduate/letters-science/statistics/#degreesmajorscertificatestext> (select either Data Science BA or BS)
- *Statistics Guide:* <https://guide.wisc.edu/undergraduate/letters-science/statistics/#degreesmajorscertificatestext> (select either Statistics BA or BS)

	Fall		Spring	
	<i>DS Major Courses</i>	<i>Stat Major Courses</i>	<i>DS Major Courses</i>	<i>Stat Major Courses</i>
Year 1			COMP SCI 320 (4)	
<i>Shared/Gen-ed</i>	COMP SCI 220 (4), MATH 221 (5), electives and gen-ed courses		MATH 222 (4), electives and gen-ed courses	
Year 2		MATH 234 (4)		STAT 303 (1)
<i>Shared/Gen-ed</i>	STAT 240 (4), electives and gen-ed courses		MATH 340 (3), STAT 340 (4), electives and gen-ed courses	
Year 3	L I S 461 (3-4)		Advanced computing (3)	STAT Elective (3)
<i>Shared/Gen-ed</i>	STAT 424 (3), STAT 309 (3), electives and gen-ed courses		STAT 310 (3), electives and gen-ed courses	
Year 4		STAT Elective (3)		STAT Elective (3) STAT Elective (3)
<i>Shared/Gen-ed</i>	STAT 451 (or 453 in spring, 3), electives and gen-ed courses		electives and gen-ed courses	

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

Below is a sample 4-year plan that shows how a student might navigate both the Mathematics major ((Data & Risk Analysis option) and Statistics 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/>
- *Statistics Guide:* <https://guide.wisc.edu/undergraduate/letters-science/statistics/#degreesmajorscertificatestext> (select either Statistics BA or BS)

	Fall		Spring	
	<i>Math Major Courses</i>	<i>Stat Major Courses</i>	<i>Math Major Courses</i>	<i>Stat Major Courses</i>
Year 1				COMP SCI 200 or 220 (3-4)
<i>Shared/Gen-ed</i>	MATH 221 (5), electives and gen-ed courses		MATH 222 (4), electives and gen-ed courses	
Year 2		STAT 240/301/324/371 (3-4)		STAT 303 (1)
<i>Shared/Gen-ed</i>	MATH 234 (4), electives and gen-ed courses		MATH 320/ 340/341/375 (3), STAT 333 (3), electives and gen-ed courses	
Year 3	Intermediate MATH (3)*			STAT Elective (3)
<i>Shared/Gen-ed</i>	MATH/STAT 309/431 (3), STAT 424 (3), electives and gen-ed courses		MATH/STAT 310 (3), electives and gen-ed courses	
Year 4	Advanced MATH (3)	STAT Elective (3)	Advanced MATH (3)	STAT Elective (3)
<i>Shared/Gen-ed</i>	Data/Risk & STAT Elective** (3), electives and gen-ed courses		Data/Risk & STAT Elective** (3), electives and gen-ed courses	

*The Intermediate Math course (one of MATH [321 & 322], 341, 375, or 421) required for the program should come as early as possible, no later than Spring semester of year 3.

**Possible Data/Risk courses include: STAT 349, 351, 411, 421, 461, 471, 475, 525, 575, 632,
STAT/BMI 641, 642

Sample 4-Year Plan: Computer Sciences and Statistics

Below is a sample 4-year plan that shows how a student might navigate both the Computer Sciences major and Statistics 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.

- *Computer Sciences Guide:* <https://guide.wisc.edu/undergraduate/letters-science/computer-sciences/#degreesmajorscertificatestext> (select either CS BA or BS)
- *Statistics Guide:* <https://guide.wisc.edu/undergraduate/letters-science/statistics/#degreesmajorscertificatestext> (select either Statistics BA or BS)

	Fall		Spring	
	<i>CS Major Courses</i>	<i>Stat Major Courses</i>	<i>CS Major Courses</i>	<i>Stat Major Courses</i>
Year 1	COMP SCI 304 (1, optional)		COMP SCI 300 (3), COMP SCI 252 (3)	
<i>Shared/Gen-ed</i>	COMP SCI 200 (3), MATH 221 (5), electives and gen-ed courses		MATH 222 (4), electives and gen-ed courses	
Year 2	COMP SCI 240 (3) COMP SCI 400 (3)	MATH 234 (4)	COMP SCI 354 (3)	STAT 303 (1) STAT 333 (3)
<i>Shared/Gen-ed</i>	STAT 324 (3), electives and gen-ed courses		MATH 320/340/341 (3), electives and gen-ed courses	
Year 3	Theory (3)	STAT 309/311/431 (3) STAT 424 (3)	Applications (3)	STAT 310 (3) STAT Elective (3)
<i>Shared/Gen-ed</i>	electives and gen-ed courses		electives and gen-ed courses	
Year 4	Software & Hardware (3)	STAT Elective (3)	Software & Hardware (3)	STAT Elective (3)
<i>Shared/Gen-ed</i>	CS/STAT Elective*, electives and gen- ed courses		CS/STAT Elective* (3), electives and gen-ed courses	

*Possible overlapping electives include COMP SCI/STAT 471, 475, and 525

Sample 4-Year Plan: Economics and Statistics

Below is a sample 4-year plan that shows how a student might navigate both the Economics major and Statistics 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.

This plan *does not* include the Economics, Mathematical Emphasis major option. If you are intending to declare Economics, Mathematical Emphasis, you should talk with both Econ Advisors (econadvise@ssc.wisc.edu) and Statistics Advisors (advising@stat.wisc.edu) about requirements.

- *Economics Guide:* <https://guide.wisc.edu/undergraduate/letters-science/economics/#degreesmajorscertificatestext> (select either Economics BA or BS)
- *Statistics Guide:* <https://guide.wisc.edu/undergraduate/letters-science/statistics/#degreesmajorscertificatestext> (select either Statistics BA or BS)

	Fall		Spring	
	<i>Econ Major Courses</i>	<i>Stat Major Courses</i>	<i>Econ Major Courses</i>	<i>Stat Major Courses</i>
Year 1		COMP SCI 200 or 220 (3-4)	ECON 101 (4)	MATH 222 (4)
<i>Shared/Gen-ed</i>	MATH 221 (5), electives and gen-ed courses		electives and gen-ed courses	
Year 2	ECON 102 (4)	MATH 234 (4) STAT 240/301/324*/371 (3-4)	ECON 301 (4), ECON 310* (4)	STAT 303 (1) STAT 333 (3) MATH 320/340/341 (3)
<i>Shared/Gen-ed</i>	electives and gen-ed courses		electives and gen-ed courses	
Year 3	ECON 302 (4), ADV ECON (3-4)	STAT 309/311* (3) STAT 424 (3)	ADV ECON (3-4)	STAT 310 (3) STAT Elective (3)
<i>Shared/Gen-ed</i>	electives and gen-ed courses		electives and gen-ed courses	
Year 4	ECON electives until required 30 credits	STAT Elective (3) STAT Elective (3)	ECON electives until required 30 credits	STAT Elective (3) STAT Elective (3)

<i>Shared/Gen-ed</i>	electives and gen-ed courses	electives and gen-ed courses
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*STAT 309, 311, and 324 can be used in place of ECON 310 as a substitution for the ECON major but will not satisfy the prereq for ECON 410. It is recommended to take ECON 310 even if you take/have taken STAT 309, 311, or 324. If you have any questions about ECON 310 or 410, please contact the Econ Advisors at econadvise@ssc.wisc.edu. If you do use STAT 309, 311, or 324 in place of ECON 310, please note you will be 4 credits short of the required credit amount for the ECON major