

Computational Statistics and Data Science

Major Graduation MAP (6037)



WEBER STATE
UNIVERSITY
College of Science

This is a suggested plan. Meet with your major advisor at least once a year to create a specific plan that best fits your academic needs. Remember, taking an average of 15 credit hours per semester facilitates timely graduation.

2020/2021 Catalog Year NAME: _____

✓	Course	Credits	Sem Offered	Milestones & Notes
Freshman (Semester 1) – Start MATH 1210 and ENGL 2010				<ul style="list-style-type: none"> 28 credits MATH required courses. 20 credits CS required courses. 21 credits additional major electives. (40 credits must be upper division (≥ 3000) courses in any subject. Plan ahead.) ^To apply for an Institutional Certificate of Proficiency in Programming Essentials students must complete CS 1030, 1400, 1410, and 2420.
	MATH 1210 (QL) Calculus I	4	Su, F, Sp	
	ENGL 2010 (EN) Intermediate College Writing	3	Su, F, Sp	
	^CS 1030 Foundations of Computing	4	Su, F, Sp	
	Gen Ed Information Literacy	1	Su, F, Sp	
	*Gen Ed	3	Su, F, Sp	
	Total Semester Credits	15		
Freshman (Semester 2)				<ul style="list-style-type: none"> Overall and MATH GPA of 2.0 or higher. 'C' or better in each MATH course. ^ # Prerequisite waived for CS 1400 email math@weber.edu for override. Students may still take CS 1030 if applying for IC Programming Essentials. * Cross-reference major electives with general education requirements – some courses may double as general education such as COMM 1020, COMM 2110, ECON 2010, ECON 2020, PHYS 2210.
	MATH 1220 Calculus II	4	Su, F, Sp	
	#CS 1400 Fundamentals of Programming	4	Su, F, Sp	
	MATH 1040 or another Statistical Concepts course	3	Varies	
	*Gen Ed	3	Su, F, Sp	
	Total Semester Credits	14		
Freshman (Optional)				<ul style="list-style-type: none"> Should have a minimum of 30 credit hours - consider summer classes if short. Major courses are prioritized over Gen Ed courses. Significant deviations from the MAP will likely result in additional semesters required to graduate.
	Total Semester Credits			
Sophomore (Semester 1)				<ul style="list-style-type: none"> Overall and MATH GPA 3.3 for Departmental Honors program. **Students must have 40 credits of upper division (≥ 3000) courses in any subject. Plan ahead.
	MATH 2210 Calculus III	4	Su, F, Sp	
	CS 1410 Object Oriented Programming	4	Su, F, Sp	
	**Major Elective	3-5	Varies	
	*Gen Ed	3	Su, F, Sp	
	Total Semester Credits	14-16		
Sophomore (Semester 2)				<ul style="list-style-type: none"> At least 9 credit hours of UD MATH must be completed at Weber State University.
	MATH 2270 Elementary Linear Algebra	3	F, Sp	
	CS 2420 Intro to Data Structures and Algorithms	4	Su, F, Sp	
	**Major Elective	3-5	Varies	
	*Gen Ed	3	Su, F, Sp	
	*Gen Ed	3	Su, F, Sp	
	Total Semester Credits	16-18		
Sophomore (Optional)				<ul style="list-style-type: none"> Should have a minimum of 60 credit hours - consider summer classes if short.
	Total Semester Credits			

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Junior (Semester 1)				<ul style="list-style-type: none"> • Apply for Departmental Honors program at least one semester before graduation. Overall and MATH GPA 3.3. Talk to advisor about research project. • ^ # Prerequisite waived for CS 2550 email math@weber.edu for override. Students may still take CS 1030 if applying for IC Programming Essentials.
	MATH 3410 Probability & Statistics I	3	F	
	#CS 2550 Intro to Database Design and SQL	4	Su, F, Sp	
	**Major Elective	3-5	Varies	
	*Gen Ed	3	Su, F, Sp	
	**Elective Credit if needed	3	Varies	
	Total Semester Credits	16-18		
Junior (Semester 2)				<ul style="list-style-type: none"> • **Students must have 40 credits of upper division (≥3000) courses in any subject. Plan ahead. • Contact Computer Science Department to apply for the Certificate of Proficiency in Programming Essentials.
	MATH 3420 Probability and Statistics II	3	Sp	
	MATH 3450 Advanced Statistical Methods	4	Sp	
	**Major Elective	3-5	Varies	
	*Gen Ed	3	Su, F, Sp	
	**Elective Credit if needed	3	Varies	
	Total Semester Credits	16-18		
Junior (Optional)				<ul style="list-style-type: none"> • Should have a minimum of 90 credit hours - consider summer classes if short.
	Total Semester Credits			
Senior (Semester 1)				**Students must have 40 credits of upper division (≥3000) courses in any subject. Plan ahead.
	MATH 4400 Statistical Analysis of Big and Small Data	3		
	**Major Elective	3-5	Varies	
	*Gen Ed	3	Su, F, Sp	
	*Gen Ed	3	Su, F, Sp	
	**Elective Credit if needed	3	Varies	
	Total Semester Credits	15-17		
Senior (Semester 2)				<ul style="list-style-type: none"> • Minimum 120 credit hours needed for graduation. • Present research project for Departmental Honors. • Apply for graduation early. • Complete Graduate Exit Survey. • Contact Math Dept. for graduation sign-off.
	CS 3580 Data Science Algorithms	4	Sp	
	**Major Elective	3-5	Varies	
	**Elective Credit if needed	3	Varies	
	**Elective Credit if needed	3	Varies	
	**Elective Credit if needed	3	Varies	
	Total Semester Credits	15-17		
Senior (Optional)				
	Total Semester Credits			
	Total # of Credits for Graduation (120 minimum)			

Gen Ed Breadth Requirements			<p><i>AVOID MISADVISEMENT!</i></p> <p>Consult your academic advisor, the WSU catalog (weber.edu/catalog), and your CatTracks degree evaluation (log into your eWeber Student Portal).</p>
<input type="checkbox"/> CA Creative Arts	<input type="checkbox"/> HU Humanities	<input type="checkbox"/> CA or HU	
<input type="checkbox"/> SS Social Science	<input type="checkbox"/> SS Social Science	<input type="checkbox"/> AI Amer Inst	
<input type="checkbox"/> LS Life Science	<input type="checkbox"/> PS Physical Science	<input type="checkbox"/> LS or PS	
<input type="checkbox"/> DV (Diversity credit can double dip w/Breadth courses)			

Revised 2/24/2020