

Mathematics Major Graduation MAP (6029)

Computer Programming Option or Minor Required

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.



WEBER STATE
UNIVERSITY

College of Science

2020/21 Catalog Year NAME: _____

✓	Course	Credits	Sem Offered	Milestones & Notes
Freshman (Semester 1) – Start MATH 1210 and ENGL 2010				<ul style="list-style-type: none"> 18 credits LD MATH and 12 credits UD MATH required courses. 12 credits additional UD MATH electives. 10 credits support courses. # Choose a minor (average 21 credits) or the computer-programming option (15 credits). * Cross-reference minor/major requirements with general education requirements – some courses may double as general education.
	MATH 1210 (QL) Calculus I	4	Su, F, Sp	
	* PHYS 2210 (PS) Physics for Scientists & Engineers I	5	F, Sp	
	ENGL 2010 (EN) Intermediate College Writing	3	Su, F, Sp	
	Gen Ed Information Literacy LIBS 1704	1	Su, F, Sp	
	Gen Ed	3	Su, F, Sp	
	Total Semester Credits	16		
Freshman (Semester 2)				<ul style="list-style-type: none"> Important to complete MATH 1210 and 1220 for prerequisites. Overall and MATH GPA of 2.0 or higher. 'C' or better in each MATH course. # Choose a minor (average 21 credits) or the computer-programming option (15 credits).
	MATH 1220 Calculus II	4	Su, F, Sp	
	MATH 3110 Foundations of Algebra	3	Sp	
	PHYS 2220 Physics for Scientists & Engineers II	5	F, Sp	
	# CS 1400 Fundamentals of Programming (prereq waived - email math@weber.edu) or *Minor Course	4	Su, F, Sp	
	Total Semester Credits	16		
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 of 2.0 or higher. 'C' or better in each MATH course. Overall and MATH GPA 3.3 for Departmental Honors program.
	MATH 2210 Calculus III	4	Su, F, Sp	
	MATH 2270 Elementary Linear Algebra or MATH 2280 Ordinary Differential Equations	3	F, Sp	
	# CS 1410 Object-Oriented Programming or *Minor Course	4	Su, F, Sp	
	Gen Ed	3	Su, F, Sp	
	Total Semester Credits	14		
Sophomore (Semester 2)				<ul style="list-style-type: none"> Overall and MATH GPA of 2.0 or higher. 'C' or better in each MATH course. Overall and MATH GPA 3.3 for Departmental Honors program. At least 9 credit hours of UD MATH must be completed at Weber State University.
	MATH 2270 Elementary Linear Algebra or MATH 2280 Ordinary Differential Equations	3	F, Sp	
	# Choose one course from: CS 2130 Computational Structures, CS 2420 Introduction to Data Structures and Algorithms, CS 2450 Software Engineering I, or CS 2810 Computer Architecture/Organization or * Minor Course	4	Su, F, Sp	
	UD MATH Elective	3		
	Gen Ed	3	Su, F, Sp	
	Gen Ed	3	Su, F, Sp	
	Total Semester Credits	16		
Sophomore (Optional)				<ul style="list-style-type: none"> Should have a minimum of 60 credit hours - consider summer classes if short.
	Total Semester Credits			
✓	Course	Credits	Sem Offered	Milestones & Notes

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Junior (Semester 1)				<ul style="list-style-type: none"> Overall GPA and MATH GPA of 2.0 or higher. 'C' or better in each MATH course. Overall and MATH GPA 3.3 for Departmental Honors program. * Cross-reference minor/major requirements with general education requirements – some courses may double as general education.
	MATH 4110 Modern Algebra I	3	F Odd Years	
	UD MATH Elective	3		
	Gen Ed	3	Su, F, Sp	
	Gen Ed	3	Su, F, Sp	
	** UD Elective	3		
	Total Semester Credits	15		
Junior (Semester 2)				<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. Alternate course <i>MATH 4320 Topology recommended if grad school planned.</i> ** Students must have 40 credits of upper division (3000 or higher) courses in any subject. Count UD MATH major required/electives and UD minor required/electives to see if you need additional UD courses.
	MATH 4120 Modern Algebra II (or MATH 4320 Topology if grad school planned)	3	Sp Even Years	
	UD MATH Elective	3		
	Gen Ed	3	Su, F, Sp	
	** UD Elective	3		
	* Minor Course or Elective Credit	3		
	Total Semester Credits	15		
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)				<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.
	MATH 4210 Intro Real Analysis I	3	F	
	# MATH 4610 Numerical Analysis I or * Minor Course	3	Fall Even Years	
	Gen Ed	3	Su, F, Sp	
	* Minor Course or Elective Credit	3		
	** UD Elective	3		
	Total Semester Credits	15		
Senior (Semester 2)				<ul style="list-style-type: none"> Minimum 120 credit hours needed for graduation. Present research project for Departmental Honors. Extra math course <i>MATH 3270 Linear Algebra recommended if grad school planned.</i> Apply for graduation early. Contact Math Dept. for graduation sign-off. Complete Graduate Exit Survey.
	MATH 4220 Intro Real Analysis II	3	Sp Odd Years	
	* Minor Course or Elective Credit	3		
	* Minor Course or Elective Credit	3		
	** UD Elective (or MATH 3270 Linear Algebra if grad school planned)	(3)	(Sp Odd Years)	
	Elective Credit if needed	3		
	Total Semester Credits	15		
Senior (Optional)				
	Total Semester Credits			
	Total # of Credits for Graduation (120 minimum)			

Gen Ed Breadth Requirements	<p>AVOID MISADVISEMENT!</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)	

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