

# 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

2017/2018 Catalog Year

NAME: \_\_\_\_\_

✓	Course	Credits	Sem Offered	Milestones & Notes
<b>Freshman (Semester 1) – Start MATH 1210 and ENGL 2010</b>				<ul style="list-style-type: none"> <li>18 credits LD MATH and 12 credits UD MATH required courses.</li> <li>12 credits additional UD MATH electives.</li> <li>10 credits support courses.</li> <li><b># Choose a minor (average 21 credits) or the computer-programming option (15 credits).</b></li> <li>* Cross-reference minor/major requirements with general education requirements – some courses may double as general education.</li> </ul>
	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	
	<b>Total Semester Credits</b>	<b>16</b>		
<b>Freshman (Semester 2)</b>				<ul style="list-style-type: none"> <li>Important to complete MATH 1210 and 1220 for prerequisites.</li> <li>Overall and MATH GPA of 2.0 or higher.</li> <li>'C' or better in each MATH course.</li> <li><b># Choose a minor (average 21 credits) or the computer-programming option (15 credits).</b></li> </ul>
	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	
	<b># CS 1400 Fundamentals of Programming (prereq waived)</b> or *Minor Course	<b>4</b>	<b>Su, F, Sp</b>	
	<b>Total Semester Credits</b>	<b>16</b>		
<b>Freshman (Optional)</b>				<ul style="list-style-type: none"> <li><b>Should have a minimum of 30 credit hours - consider summer classes if short.</b></li> <li>Major courses are prioritized over Gen Ed courses. Significant deviations from the MAP will likely result in additional semesters required to graduate.</li> </ul>
	<b>Total Semester Credits</b>			
<b>Sophomore (Semester 1)</b>				<ul style="list-style-type: none"> <li>Overall and MATH GPA of 2.0 or higher.</li> <li>'C' or better in each MATH course.</li> <li>Overall and MATH GPA 3.3 for Departmental Honors program.</li> </ul>
	MATH 2210 Calculus III	4	Su, F, Sp	
	MATH 2270 Elementary Linear Algebra or MATH 2280 Ordinary Differential Equations	3	F, Sp	
	<b># CS 1410 Object-Oriented Programming</b> or *Minor Course	<b>4</b>	<b>Su, F, Sp</b>	
	Gen Ed	3	Su, F, Sp	
	<b>Total Semester Credits</b>	<b>14</b>		
<b>Sophomore (Semester 2)</b>				<ul style="list-style-type: none"> <li>Overall and MATH GPA of 2.0 or higher.</li> <li>'C' or better in each MATH course.</li> <li>Overall and MATH GPA 3.3 for Departmental Honors program.</li> <li>At least 9 credit hours of UD MATH must be completed at Weber State University.</li> </ul>
	MATH 2270 Elementary Linear Algebra or MATH 2280 Ordinary Differential Equations	3	F, Sp	
	<b># Choose one course from:</b> <b>CS 2130 Computational Structures,</b> <b>CS 2420 Introduction to Data Structures and Algorithms,</b> <b>CS 2450 Software Engineering I, or</b> <b>CS 2810 Computer Architecture/Organization</b> or * Minor Course	<b>4</b>	<b>Su, F, Sp</b>	
	UD MATH Elective	3		
	Gen Ed	3	Su, F, Sp	
	Gen Ed	3	Su, F, Sp	
	<b>Total Semester Credits</b>	<b>16</b>		
<b>Sophomore (Optional)</b>				<ul style="list-style-type: none"> <li><b>Should have a minimum of 60 credit hours - consider summer classes if short.</b></li> </ul>
	<b>Total Semester Credits</b>			

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<b>Junior (Semester 1)</b>				<ul style="list-style-type: none"> <li>• Overall GPA and MATH GPA of 2.0 or higher.</li> <li>• 'C' or better in each MATH course.</li> <li>• Overall and MATH GPA 3.3 for Departmental Honors program.</li> <li>• * Cross-reference minor/major requirements with general education requirements – some courses may double as general education.</li> </ul>
	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		
	<b>Total Semester Credits</b>	<b>15</b>		
<b>Junior (Semester 2)</b>				<ul style="list-style-type: none"> <li>• Apply for Departmental Honors program at least one semester before graduation. Overall and MATH GPA 3.3. Talk to advisor about research project.</li> <li>• <i>Alternate course MATH 4320 Topology recommended if grad school planned.</i></li> <li>• ** 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.</li> </ul>
	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		
	<b>Total Semester Credits</b>	<b>15</b>		
<b>Junior (Optional)</b>				<ul style="list-style-type: none"> <li>• <b>Should have a minimum of 90 credit hours - consider summer classes if short.</b></li> </ul>
	<b>Total Semester Credits</b>			
<b>Senior (Semester 1)</b>				<ul style="list-style-type: none"> <li>• Apply for Departmental Honors program at least one semester before graduation. Overall and MATH GPA 3.3. Talk to advisor about research project.</li> </ul>
	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		
	<b>Total Semester Credits</b>	<b>15</b>		
<b>Senior (Semester 2)</b>				<ul style="list-style-type: none"> <li>• <b>Minimum 120 credit hours needed for graduation.</b></li> <li>• Present research project for Departmental Honors.</li> <li>• <i>Extra math course MATH 3270 Linear Algebra recommended if grad school planned.</i></li> <li>• Apply for graduation early.</li> <li>• Contact Math Dept. for graduation sign-off.</li> <li>• Complete Graduate Exit Survey.</li> </ul>
	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		
	<b>Total Semester Credits</b>	<b>15</b>		
<b>Senior (Optional)</b>				
	<b>Total Semester Credits</b>			
	<b>Total # of Credits for Graduation (120 minimum)</b>			

Gen Ed Breadth Requirements		
<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"/> 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)		

**AVOID MISADVISEMENT!**  
 Consult your **academic advisor**, the **WSU catalog** ([weber.edu/catalog](http://weber.edu/catalog)), and your **CatTracks** degree evaluation (log into your eWeber Student Portal).

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Revised 4/24/2017