

# Bachelor of Science in BIOCHEMISTRY - ACS Certified



## Graduation MAP


This is a suggested plan. Meet with an academic advisor 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

Catalog Year 2020-2021: MATH 1210 Placement

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

<input checked="" type="checkbox"/>	Course	Credit Hour	Semester Offered	Milestones & Notes
Freshman (Semester 1)				
	CHEM 1210 PS Principles of Chemistry I	5	F, Sp, Su	<ul style="list-style-type: none"> <li>Average GPA 2.0 or higher required for courses within the major.</li> </ul>
	MATH 1210 Calculus I	4	F, Sp, Su	
	PHYS 2210 PS Physics for Scientists & Engineers I	5	F, Sp	
	<b>Total Semester Credits</b>	<b>14</b>		
Freshman (Semester 2)				
	CHEM 1220 Principles of Chemistry II	5	F, Sp, Su	
	MATH 1220 Calculus II	4	F, Sp, Su	
	PHYS 2220 Physics for Scientists & Engineers II	5	F, Sp	
	LIBS 1504 Information Literacy Comp Exam	1	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>15</b>		
Freshman (Optional)				
	<b>Total Semester Credits</b>			
Sophomore (Semester 3)				
	CHEM 2310/2315 Organic Chemistry I/Lab	5	F, Sp, Su (B1)	<ul style="list-style-type: none"> <li>*If ZOOL 1110 is selected instead of MICR 2054, you will need to complete a <math>\geq 3</math>-credit hour Life Science Breadth course to satisfy Gen Ed.</li> <li>Required Foundation Courses: Chem 2310, Chem 2315, Chem 2990, Chem 3000, Chem 3070, Chem 3075, Chem 3410, Chem 3610</li> </ul>
	+CHEM 3000 Quantitative Analysis (Foundation Analytical)	4	F, Sp	
	MICR 2054 LS Principles of Microbiology -or- *ZOOL 1110 Principles of Zoology	4	F, Sp	
	ENGL 1010 Introductory College Writing	3	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>16</b>		
Sophomore (Semester 4)				
	CHEM 2320/2325 <sup>L</sup> Organic Chemistry II/Lab	5	F, Sp, Su (B1)	<ul style="list-style-type: none"> <li>**Elective In-Depth Course option (min 8 credit hours): BTNY 3153, BTNY 3204, BTNY 3303, BTNY 3583, CHEM 3050<sup>L</sup>, CHEM 3610<sup>L</sup>, CHEM 4420<sup>L</sup>, CHEM 4540<sup>L</sup>, CHEM 4620<sup>L</sup>, CHEM 4630<sup>L</sup>, CHEM 4700, CHEM 4800, MICR 3254, MICR 3305, MICR 4054, MICR 4154, MICR 4252, ZOOL 3200, ZOOL 3300, ZOOL 4210, ZOOL 4220, ZOOL 4300</li> <li><sup>L</sup> Includes laboratory credit that counts toward the 4-credit in-depth laboratory requirement</li> </ul>
	CHEM 2990 Chemical Tech Seminar	1	F, Sp	
	+CHEM 3070/CHEM 3075 Biochemistry I (Foundation Bio)	4	F, Sp	
	ENGL 2010 EN Intermediate College Writing	3	F, Sp, Su	
	GE Education Requirement	3	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>16</b>		
Sophomore (Optional)				
	<b>Total Semester Credits</b>			

	Course	Credit Hours	Semester Offered	Milestones & Notes
Junior (Semester 5)				
	CHEM 3410 Foundations in Physical Chemistry	4	F, Sp	<ul style="list-style-type: none"><li>• † 40 Upper Division credit hours (3000-level or higher) required to graduate</li><li>• <b>MINIMUM CHEMISTRY REQUIRED COURSES DO NOT FULLY SATISFY UNIVERSITY UPPER DIVISION REQUIREMENTS.</b></li></ul>
	+CHEM 3610 Foundations in Inorganic	4	F, Sp	
	ZOOL 3200 Cell Biology	4	F, Sp	
	GE Education Requirement	3	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>15</b>		
Junior (Semester 6)				
	+CHEM 3080 Biochemistry II	3	Sp	
	+CHEM 3090 <sup>L</sup> Biochemical Techniques	1	Sp	
	MICR 4154 Genetics -or- ZOOL 3200 Cell Biology	4	Sp F, Sp	
	GE Education Requirement	6	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>14</b>		
Junior (Optional)				
	<b>Total Semester Credits</b>			
Senior (Semester 7)				
	+**CHEM 3050 <sup>L</sup> Instrumental Analysis	4	F, SP	
	+CHEM 4250 Medicinal Chemistry	3	F	
	+**CHEM 4800 Research & Independent Study	1	F, Sp	
	+CHEM Upper Division Major Elective	4	F	
	+Upper Division Elective	4	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>16</b>		
Senior (Semester 8)				
	+**CHEM 4420 <sup>L</sup> Quantum Chemistry	4	Sp	<ul style="list-style-type: none"><li>• PHYS 2210, PHYS 2220, CHEM 4420 recommended for students planning to attend Graduate School</li><li>• Additional courses should be chosen to support career plans</li></ul>
	+CHEM 4900 Senior Seminar	1	F, Sp	
	+CHEM Upper Division Major Elective	3	F, Sp, Su	
	GE Education Requirements	6	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>14</b>		
Senior (Optional)				
				<ul style="list-style-type: none"><li>• <b>*A minimum of 120 credit hours are required for a bachelor's degree</b></li></ul>
	<b>Total Semester Credits</b>			
	<b>Total Bachelor Credits</b>	<b>120</b>		

**Gen Ed Breadth Requirements (do not duplicate departments)**

<input type="checkbox"/> HU	<input type="checkbox"/> CA	<input type="checkbox"/> HU or CA
<input type="checkbox"/> SS	<input type="checkbox"/> SS	
<input type="checkbox"/> PS	<input type="checkbox"/> LS	<input type="checkbox"/> PS or LS
<input type="checkbox"/> DV (Double dip with Breadth course)		

**Avoid misadvisement!** Consult your academic advisor (weber.edu/advisors), the WSU Catalog (weber.edu/catalog), and your CatTracks degree evaluation (log into your eWeber Student Portal).

Revision Date: 5/14/18

**Notes:**

Average GPA of 2.00 or better required for courses within major.

See WSU Catalog for prerequisite requirements & elective course options.

Students who have math deficiencies will require additional semesters to graduate. It is recommended that Gen Ed courses to be taken during summer semester to accommodate remedial MATH and ENGLISH courses.

Since this is a science major, the course requirements are very rigid. Major courses are prioritized over Gen. Ed. Courses. Significant deviation from the MAP will likely result in additional semester required to graduate.