

Chemistry Education Roadmap

Program	Bachelor of Science: Chemistry Education
Total Credits	120
Catalog	2023-2024

*The plan below is **one** of several possible ways for you to complete this degree.
Your individualized plan may look different if you have already fulfilled some requirements.
Your Financial Aid Award may require additional term credits for full-time funding.
You must complete all university and program requirements successfully to complete this degree (GPA, 120 credits, LASC, WI, residency)*

Curriculum	Course	Course Title	Credits	Take When	Total Credits
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120.00

1st Year						
	Notes					
Core Requirement:	LASC 3	CHEM 150	General Chemistry I Lecture	3.00	1st Fall	15.00
Core Requirement:	LASC 3	1 CHEM 150L	General Chemistry I Lab	1.00	1st Fall	
Graduation Requirement:	First-Year Experience Course	FYE 101	First Year Experience	1.00	1st Fall	
	LASC 2	1		3.00	1st Fall	
Related Requirement:	LASC 3	BIOL 115/115L	Organismal Biology with Lab	4.00	1st Fall	
Secondary Ed:		9 ED 205	Introduction to Education	3.00	1st Fall	
Core Requirement:	LASC 3	CHEM 210	General Chemistry II Lecture	3.00	1st Spring	16.00
Core Requirement:	LASC 3	1 CHEM 210L	General Chemistry II Lab	1.00	1st Spring	
Related Requirement:	LASC 3	BIOL 111/111L	Cell Biology with Lab	4.00	1st Spring	
Secondary Ed:		9 ED 294	Educational Psychology	3.00	1st Spring	
Related Requirement:	LASC 4	2 MATH 261	Calculus I	4.00	1st Spring	
Core Requirement:		CHEM 297	Introduction to Research	1.00	1st Spring	

2nd Year						
Core Requirement:		CHEM 350	Organic Chemistry I Lecture	3.00	2nd Fall	16.00
Core Requirement:		CHEM 355	Organic Chemistry I Lab	1.00	2nd Fall	
Related Requirement:	LASC 3	7 PHYS 200	Physics I with Calculus and Lab	4.00	2nd Fall	
	LASC 1B	ENGL 101	English Composition	4.00	2nd Fall	
Related Requirement:	LASC 3	GEOS 115	Physical Geology	4.00	2nd Fall	
Secondary Ed:		ED 310	Social Foundations of Education	3.00	2nd Spring	
Related Requirement:	LASC 4	3 MATH 234	Introduction to Probability and Statistics	3.00	2nd Spring	
Core Requirement:		CHEM 380/380	Analytical Chemistry I with Lab	4.00	2nd Spring	
Related Requirement:	LASC 3	7 PHYS 201	Physics II with Calculus and Lab	4.00	2nd Spring	

3rd Year						
Core Requirement:	LASC 1A	COMM 100	Speech Communication	3.00	3rd Fall	16.00
		CHEM 400	Biochemistry I	3.00	3rd Fall	
	LASC/WI Elective	4,8		4.00	3rd Fall	
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Secondary Ed:		SPED 413	Teaching in an Inclusive Environment	3.00	3rd Fall	
Related Requirement:	LASC 3	GEOS 116	Historical Geology	3.00	3rd Spring	
Secondary Ed:		ED 448	Reading Study Skills in the Content Areas	3.00	3rd Spring	
Core Requirement:		CHEM 450	Physical Chemistry: Thermodynamics	3.00	3rd Spring	
	LASC/WI Elective	4,8		3.00	3rd Spring	
Related Requirement:	LASC 3	10 GEOS 360	Planetary Science	3.00	3rd Spring	

4th Year						
Core Requirement:	WI for major	CHEM 375	Team-Based Chemistry Research	4.00	4th Fall	16.00
Core Requirement:		6 CHEM 440	Secondary Science Teaching Methods	3.00	4th Fall	
Secondary Ed:		6 ED 498	The Professional Teacher in the Classroom	3.00	4th Fall	
	LASC Elective	4,8		3.00	4th Fall	
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Student Teaching:		5 ED 461S	Student Teaching: Secondary	12.00	4th Spring	

120.00

1 CHEM 275 can be taken in place of either general chemistry lab and counts as a LASC 2. Students in LC will either take Biol 100 or Chem 275

2 ACT math score is needed to inform whether a student should begin directly in calculus or a lower math class.

3 Students may take MATH 261 or BIOL 275 instead.

4 In considering electives, you need to select classes that double (2 LASC areas) or tripple (2 LASC areas + WI) count.

⁵ No other classes can be taken during this semester. Apply the semester before. Complete MTLE pedagogy, chemistry, and middle school science tests.

6 CHEM 440 and ED 498 MUST BE taken together.

7 Algebra-based physics may be taken instead (PHYS 160 and 161).

8 Classes like HIST 374/379 (5/10/WI), HIST 105 (5/8), POL 160 (5/8), POL 120 (5/9), ENGL 407 (6/10), PHIL 215/311/312/318 (6/9/WI?), PHIL 102/120/235 (6/7), MUS 240 (6/7), PHIL 302 (6/8) double count. The right set of 4 of these takes out all required LASC 5, 6, 7, 8, 9, 10 + 2WI.

⁹ After completing ED294 and ED 205, apply for SARTE in order to be able to take ED classes at the 300 level or above.

¹⁰ GEOS 360 is taught odd springs. It may be necessary to take it spring of sophomore year depending on timing.