

Chemistry BS Roadmap

Program	Bachelor of Science: Chemistry
Total Credits	120
Catalog	2022-2023

*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
------------	--------	--------------	---------	-----------	---------------

105.00
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	
	LASC Elective	8		3.00	1st Fall	
Related Requirement:	LASC 4	2 MATH 261	Calculus I	4.00	1st Fall	
Core Requirement:	LASC 3	CHEM 210	General Chemistry II Lecture	3.00	1st Spring	
Core Requirement:	LASC 3	1 CHEM 210L	General Chemistry II Lab	1.00	1st Spring	
Core Requirement:		CHEM 297	Introduction to Research	1.00	1st Spring	
Related Requirement:	LASC 4	MATH 262	Calculus II	4.00	1st Spring	
	LASC 1A	ENGL 101	English Composition	3.00	1st Spring	
	LASC/WI Elective	8		3.00	1st Spring	

2nd Year

Core Requirement:		CHEM 350	Organic Chemistry I Lecture	3.00	2nd Fall	14.00
Core Requirement:		CHEM 355	Organic Chemistry I Lab	1.00	2nd Fall	
Related Requirement:	LASC 3	PHYS 200	Physics I with Calculus and Lab	4.00	2nd Fall	
	LASC Elective	8		3.00	2nd Fall	
	LASC/WI Elective	8		3.00	2nd Fall	
Core Requirement:		CHEM 360	Organic Chemistry II Lecture	3.00	2nd Spring	15.00
Core Requirement:		CHEM 365	Organic Chemistry II Lab	1.00	2nd Spring	
Core Requirement:		CHEM 380/380	Analytical Chemistry I with Lab	4.00	2nd Spring	
Related Requirement:	LASC 3	PHYS 201	Physics II with Calculus and Lab	4.00	2nd Spring	
	LASC 1A	COMM 100	Speech Communication	3.00	2nd Spring	

3rd Year

Core Requirement:		CHEM 300	Inorganic Chemistry I	3.00	3rd Fall	16.00
Core Requirement:		CHEM 400	Biochemistry I	3.00	3rd Fall	
Core Requirement:		CHEM 405	Biochemistry I lab	1.00	3rd Fall	
Core Requirement:		6 CHEM 480	Analytical Chemistry II	3.00	3rd Fall	
	LASC Elective			3.00	3rd Fall	
	LASC Elective			3.00	3rd Fall	
Core Requirement:		7 CHEM 420	Inorganic Chemistry II	3.00	3rd Spring	16.00
Core Requirement:		CHEM 397	Undergraduate Research	1.00	3rd Spring	
Upper level electives:				3.00	3rd Spring	
Writing Intensive:	200-level or higher			3.00	3rd Spring	
Electives:		4		3.00	3rd Spring	
Electives:		4		3.00	3rd Spring	

4th Year

Core Requirement:	WI for major	6 CHEM 375	Team-Based Research	4.00	4th Fall	14.00
Core Requirement:		3 CHEM 460	Physical Chemistry: Quantum Chemistry & Kir	3.00	4th Fall	
Core Requirement:		CHEM 397	Undergraduate Research	1.00	4th Fall	
Electives:		4		3.00	4th Fall	15.00
Electives:		4		3.00	4th Fall	
Core Requirement:		7 CHEM 450	Physical Chemistry: Thermodynamics	3.00	4th Spring	15.00
Core Requirement:		CHEM 497	Senior Thesis	1.00	4th Spring	
Core Requirement:		5 CHEM 465	Physical Chemistry Lab	1.00	4th Spring	
Electives:		4		10.00	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 CHEM 460 is an even, fall course. It will need to be taken either fall of year 3 or fall of year 4, depending on the year.

⁴ In considering electives, keep in mind that all of the Liberal Arts and Science Curriculum requirements must be fulfilled.

⁵ CHEM 465 is an odd spring course. It will need to be taken either spring of year 3 or spring of year 4, depending on the year.

⁶ CHEM 480 is a odd fall course. It will need to be taken either fall of year 3 or fall of year 4, depending on the year. Flip with CHEM 375 depending on year.

⁷ CHEM 420 is a odd spring course. It will need to be taken either fall of year 3 or fall of year 4, depending on the year. Consider flipping with CHEM 450 depending on year.

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