

CHEMISTRY, BACHELOR OF ARTS

Offered by Department of Chemistry (<http://catalog.unk.edu/undergraduate/departments-programs/chemistry/>)

Code	Title	Credit Hours
General Studies		
<i>Foundational Requirements (LOPERs 1-4)</i>		14
Including:		
LOPER 4: Mathematics, Statistics, and Quantitative Reasoning		
MATH 115	Calculus I with Analytic Geometry ¹	
<i>Broad Knowledge Requirements (LOPERs 5-8)</i>		13
Including:		
LOPER 8: Natural Science		
BIOL 106	Biology II	
<i>Dispositional Requirements (LOPERs 9-10)</i> ²		6
<i>Wellness (LOPER 11) Optional</i>		0
BA Language requirement		
Complete all required courses ³		6
Program Specified Requirements		5
PHYS 275 & 275L	General Physics I (Calculus) and General Physics I (Calculus) Laboratory	
or PHYS 205 & 205L	General Physics I and Physics I Laboratory	
Major Option		
Complete all required courses		37
Minor or 2nd Major		
Complete all required courses ⁴		24
Unrestricted electives		
Needed to reach 120 credit hours		15
Total Credit Hours		120

Major Option

Code	Title	Credit Hours
Chemistry Core Requirements		
CHEM 160	General Chemistry	3
CHEM 160L	General Chemistry Laboratory	1
CHEM 161	General Chemistry	3
CHEM 161L	General Chemistry Laboratory	1
CHEM 169	Chemistry Foundations and Careers	1
CHEM 301	Analytical Chemistry	3
CHEM 301L	Analytical Chemistry Lab	1
CHEM 310	Safety in Chemistry	1
CHEM 351	Biochemistry I	4
CHEM 351L	Biochemistry Lab	1
CHEM 490L	Advanced Chemistry Laboratory	2
CHEM 430	Inorganic Chemistry	3

CHEM 480	Physical Chemistry	3
or CHEM 482	Survey of Physical Chemistry	
CHEM 499L	Research in Chemistry	1
Select one of the following:		5
CHEM 250 & 250L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Lab	
or		
CHEM 360 & 360L	Organic Chemistry and Organic Chemistry Laboratory	
Chemistry Electives		
Select 4 credit hours from CHEM 300 - CHEM 499L		4
Total Credit Hours		37

1

Students without sufficient preparation will also need to take the following courses, increasing the total credit hours needed:

- MATH 102
- MATH 103

2

Designated courses with the appropriate content may be approved to satisfy one of the Broad Knowledge requirements plus LOPER 9 or Broad Knowledge plus LOPER 10. Courses may be approved to satisfy LOPER 9 or LOPER 10 alone. (Courses satisfying LOPER 9 or LOPER 10 alone must be 3 credit hours.) Students applying this option will need to take additional hours in other categories to meet the required GS hours.

3

For specific language requirements see #2 of Bachelor of Arts Degree requirements (<http://catalog.unk.edu/undergraduate/academics/degrees/ba/>).

4

A minor or second major is required for a complete degree program. The number of required electives needed to reach 120 total credit hours overall will depend upon the specific program chosen.

This document represents a sample 4-year plan for degree completion with this major. Actual course selection and sequence may vary and should be discussed individually with your academic advisor. Advisors can also help you plan other experiences to enrich your undergraduate education such as internships, education abroad, undergraduate research, learning communities, and service learning and community-based learning.

Code	Title	Credit Hours
Semester 1		
CHEM 160	General Chemistry	3
CHEM 160L	General Chemistry Laboratory	1
MATH 115	Calculus I with Analytic Geometry	5
LOPER 2: Writing Skills		3
LOPR 126	First Year Seminar	3
Total Credit Hours		15
Semester 2		
BIOL 106	Biology II	4

CHEM 161	General Chemistry	3
CHEM 161L	General Chemistry Laboratory	1
CHEM 169	Chemistry Foundations and Careers	1
LOPER 5: Visual or Performing Arts		3
BA Requirement		3
Total Credit Hours		15

Code	Title	Credit Hours
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Semester 3

Select one:		5
CHEM 250 & 250L	Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Lab	
CHEM 360 & 360L	Organic Chemistry and Organic Chemistry Laboratory	
LOPER 3: Oral Communication Skills		3
Minor or 2nd Major Course		3
LOPER 7: Social Science		3
BA Requirement		3
Total Credit Hours		17

Code	Title	Credit Hours
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Semester 4

CHEM 301	Analytical Chemistry	3
CHEM 301L	Analytical Chemistry Lab	1
CHEM 310	Safety in Chemistry	1
LOPER 6: Humanities		3
Minor or 2nd Major Course		3
LOPER 9: Civic Competency and Engagement		3
Total Credit Hours		14

Code	Title	Credit Hours
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Semester 5

CHEM 430 or CHEM 480	Inorganic Chemistry ¹ Physical Chemistry	3
PHYS 205	General Physics I	4
PHYS 205L	Physics I Laboratory	1
LOPER 10: Respect for Human Diversity		3
Minor or 2nd Major Course		3
Minor or 2nd Major Course		3
Total Credit Hours		17

Code	Title	Credit Hours
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Semester 6

CHEM 351	Biochemistry I	4
CHEM 499L	Research in Chemistry	1
Minor or 2nd Major Course		3
Minor or 2nd Major Course		3
Unrestricted Elective		3
Total Credit Hours		14

Code	Title	Credit Hours
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Semester 7

Major Elective		4
CHEM 430 or CHEM 480	Inorganic Chemistry ¹ Physical Chemistry	3
CHEM 490L	Advanced Chemistry Laboratory	3
Unrestricted Elective		3
Unrestricted Elective		3
Total Credit Hours		16

Code	Title	Credit Hours
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Semester 8

Unrestricted Elective		3
Unrestricted Elective		3
Unrestricted Elective		3
Unrestricted Elective		3
Total Credit Hours		12