

MATHEMATICS, BACHELOR OF SCIENCE

Offered by Department of Mathematics and Statistics (<http://catalog.unk.edu/undergraduate/departments-programs/mathematics-statistics/>)

Code	Title	Credit Hours
General Education		
<i>Foundational Requirements (LOPERs 1-4)</i>		14
Including:		
LOPER 2: Writing Skills		
ENG 101	Introduction to Academic Writing	
LOPER 4: Mathematics, Statistics and Quantitative Reasoning		
MATH 115	Calculus I with Analytic Geometry ¹	
<i>Broad Knowledge Requirements (LOPERs 5-8)</i>		11
Including:		
Take any one course in LOPER 5, LOPER 6, or LOPER 7 that also satisfies a Dispositional Requirement (LOPER 9 or LOPER 10) in addition to the Broad Knowledge Requirement. The courses that meet these criteria are listed at https://catalog.unk.edu/undergraduate/general-studies/courses-satisfy-broad-knowledge-dispositional (https://catalog.unk.edu/undergraduate/general-studies/courses-satisfy-broad-knowledge-dispositional/). See advisor for assistance.		
LOPER 8: Natural Sciences		
PHYS 275	General Physics I (Calculus)	
PHYS 275L	General Physics I (Calculus) Laboratory	
<i>Dispositional Requirements (LOPERs 9-10)</i> ²		6
<i>Wellness (LOPER 11) Optional</i>		0
Program Specific Requirements		3
ENG 102	Special Topics in Academic Writing and Research	
Major Option		
Complete all required courses		36
Minor or 2nd Major		
Complete all required courses ³		24
Unrestricted electives		
Needed to reach 120 credit hour minimum		26
Total Credit Hours		120

Must be completed with no grade below a "C".

Major Option

Code	Title	Credit Hours
Math Core Requirements		
MATH 150	School Math from an Advanced Standpoint ¹	3
MATH 202	Calculus II with Analytic Geometry	5
MATH 250	Foundations of Math	3
MATH 260	Calculus III	5

MATH 280	Linear Algebra	3
MATH 305	Differential Equations	3
MATH 350	Abstract Algebra	3
MATH 460	Advanced Calculus I	3
Electives		
Select 8 credit hours of the following:		8
MATH 300-MATH 499 ⁴		
STAT 300-STAT 499		
Total Credit Hours		36

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 General Education hours.

3

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.

4

Except MATH 330, MATH 430, MATH 465, MATH 470, or MATH 471.

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		
MATH 115	Calculus I with Analytic Geometry	5
LOPER 1: First-year Seminar		3
ENG 101	Introduction to Academic Writing	3
LOPER 3: Oral Communication Skills		3
Total Credit Hours		14

Code	Title	Credit Hours
Semester 2		
MATH 202	Calculus II with Analytic Geometry	5
MATH 150	School Math from an Advanced Standpoint	3
LOPER 5: Visual or Performing Arts ¹		3

ENG 102	Special Topics in Academic Writing and Research	3
Total Credit Hours		14

Code	Title	Credit Hours
Semester 3		
MATH 260	Calculus III	5
MATH 250	Foundations of Math	3
LOPER 6: Humanities ¹		3
Minor or 2nd Major Course		3
Total Credit Hours		14

Code	Title	Credit Hours
Semester 4		
MATH 305	Differential Equations	3
MATH 280	Linear Algebra	3
LOPER 9: Civic Competency and Engagement ¹		3
PHYS 275 & 275L	General Physics I (Calculus) and General Physics I (Calculus) Laboratory (LOPER 8)	5
Minor or 2nd Major Course		3
Total Credit Hours		17

Code	Title	Credit Hours
Semester 5		
Major Elective		3
LOPER 7: Social Science ¹		3
Minor or 2nd Major Course		3
Minor or 2nd Major Course		3
Unrestricted Elective		3
Unrestricted Elective		3
Total Credit Hours		18

Code	Title	Credit Hours
Semester 6		
MATH 350	Abstract Algebra	3
Minor or 2nd Major Course		3
Minor or 2nd Major Course		3
Unrestricted Elective		3
Unrestricted Elective		3
Total Credit Hours		15

Code	Title	Credit Hours
Semester 7		
MATH 460	Advanced Calculus I	3
Minor or 2nd Major Course		3
Minor or 2nd Major Course		3
Unrestricted Elective		3

Unrestricted Elective	3
Total Credit Hours	15

Code	Title	Credit Hours
Semester 8		
Major Elective		3
Major Elective		2
Unrestricted Elective		3
Unrestricted Elective		3
Unrestricted Elective		2
Total Credit Hours		13

¹ Choose a course that satisfies two LOPER requirements: LOPER 5, 6, or 7 AND LOPER 9 or LOPER 10