



MATHEMATICS

What YOU will learn:

When you major in mathematics at Nebraska, you will study the areas of pure and applied mathematics and statistics. Each year we will review your career goals and help you select the courses that will meet your needs. You will also have the option to pursue a second major in fields such as physics, computer science, actuarial science, economics or a social science; or seek a teaching certificate in the College of Education & Human Sciences.

In addition to the core requirements of a calculus series and set of advanced mathematics courses, you will have the option to select a concentration - education, research experience, or statistics. You can expect to select from electives such as Introduction to Modern Algebra, Advanced Calculus, Elementary Analysis, Topics in Contemporary Mathematics, Discrete and Finite Mathematics, Theory of Linear Transformations, Introduction to Complex Variable Theory, Math in the City and many more!

Career opportunities YOU will have:

As a math major, your skills in logic and problem solving will be valuable in a variety of professions. In fact, the top 15 highest-earning college degrees have one thing in common—math skills. Employment of recent Nebraska graduates include:

- Actuarial Analyst, Actuarial Resources Corporation
- Credit Analyst, CoBank
- Equity Research Analyst, Lehman Brothers
- High School Math Teacher, Millard Public Schools
- IT Architect/Specialist, IBM
- Senior Bank Specialist, Cabela's World's Foremost Bank
- Software Engineer, Google, Inc

Why NEBRASKA for Mathematics?

You will join a department noted for its welcoming and supportive atmosphere. Opportunities are available to you outside the classroom to increase your experience and bolster your resume. Picture yourself as an undergraduate teaching assistant or tutor; taking a trip abroad to Budapest or Moscow; interning with NASA, or the National Security Agency (NSA); or engaging in mathematical research through UNL's UCARE program—get PAID to do research!

Major in math and earn a scholarship! If you graduate from a Nebraska High School, then you might qualify for the prestigious Dean H. and Floreen G. Eastman Scholarship which is renewable for up to four years. Other scholarships are available if you come from out of state, such as the Nebraska Math Scholars program.

Picture yourself engaging in research similar to these current student projects: *Examining and Modeling Trial-to-Trial Variability in Neural Codes*; *Semigroups Generated By Idempotent Matrices*; and *The Roller-Coaster Conjecture*.

Network with department faculty and your peers by joining the Math Club, where you can organize events and spend time with other math enthusiasts! You may also join Pi Mu Epsilon, a national mathematics honor society that promotes activity in mathematics among students in academic institutions, or the Women's Undergraduate Mathematics Network.



COLLEGE OF ARTS AND SCIENCES

MATHEMATICS

	COURSE NAME	HOURS
FIRST Semester	MATH 106: Calculus I (ACE 3)	5
	ACE 1: Written texts/research & knowledge skills	3
	Language Prerequisite - 101 Level (Elective)	5
	Elective/Minor/Secondary Major/Pre-Professional/Science	3
	Total Hours	16

	COURSE NAME	HOURS
SECOND Semester	MATH 107: Calculus II (CDR B)	4
	CDR A: Written communication	3
	Language Prerequisite - 102 Level (Elective)	5
	ACE 4: Scientific methods & knowledge of natural/physical world	3
	Total Hours	15

THIRD Semester	MATH 208: Calculus III	4
	CDR B, BL: Natural, Physical & Mathematical Sciences w/ Lab	4
	Language Requirement - 201 Level (CDR E)	3
	Elective/Minor/Secondary Major/Pre-Professional/Science	3
	Total Hours	14

FOURTH Semester	MATH 314: Linear Algebra	3
	ACE 2: Communication skills	3
	ACE 7: Fine Arts	3
	Language Requirement - 202 Level (CDR E)	3
	Elective/Minor/Secondary Major/Pre-Professional/Science	3
	Total Hours	15

FIFTH Semester	MATH 310: Intro to Modern Algebra	3
	MATH 221: Differential Equations, OR MATH 380: Statistics and Applications	3
	ACE 6: Social Sciences	3
	College Distribution Requirement (CDR) D: Social Sciences	3
	Elective/Minor/Secondary Major/Pre-Professional/Science	3
	Total Hours	15

SIXTH Semester	MATH 325: Elementary Analysis	3
	Advanced Mathematics Option/Area of Focus Course	3
	ACE 9: Global awareness & human diversity	3
	CDR C: Humanities	3
	Elective/Minor/Secondary Major/Pre-Professional/Science	3
	Total Hours	15

SEVENTH Semester	Advanced Mathematics Option/Area of Focus Course	3
	Advanced Mathematics Option/Area of Focus Course	3
	ACE 8: Ethics/civics/stewardship	3
	Elective/Minor/Secondary Major/Pre-Professional/Science	3
	Elective/Minor/Secondary Major/Pre-Professional/Science	3
	Total Hours	15

EIGHTH Semester	Advanced Mathematics Option/Area of Focus Course (ACE 10)	3
	ACE 5: Humanities	3
	CDR F: Additional breadth	3
	Elective/Minor/Secondary Major/Pre-Professional/Science	3
	Elective/Minor/Secondary Major/Pre-Professional/Science	3
	Total Hours	15

DISCLAIMER: This document represents a sample 4-year plan for degree completion with a major of interest in the College of Arts and Sciences. Actual course selection and sequence may vary and should be discussed individually with an Academic Advisor at the college and department level.