MATHEMATICS

Academics
When you major in mathematics at Nebraska, you will study the areas of pure and applied mathematics and statistics.

In addition to the core requirements of a calculus series and set of advanced mathematics courses, you can select one of four options: concentration, education, research experience or statistics.

You can 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!

Experience
In the College of Arts and Sciences, we know experience is valuable and goes beyond the classroom. We strive to help you connect your academics with research, internships, education abroad, service learning and leadership experiences. Take advantage of opportunities in mathematics such as:

• Studying abroad in Santiago, Chile
• Serving as the Math Club president
• Interning with ConAgra Foods or Birkshire Hathaway Homestate
• Researching with the National Security Agency (NSA)
• Volunteering with the Center for Civic Engagement Tax Preparation

Opportunities
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. Here are examples of recent graduates’ employment:

• Actuary / CNA INSURANCE
• Business Analyst / SANDHILLS PUBLISHING
• Data Engineer / HUDL
• Implementation Consultant / FAST ENTERPRISES
• Math Teacher / OMAHA PUBLIC SCHOOLS
• Programmer/Analyst / CENTRIX SOLUTIONS, INC.
• Quality Assurance Analyst / NANONATION
• Social Insurance Specialist / SOCIAL SECURITY
• Statistical Analyst / EXPERIAN
• Website Production Support / CABELA’S

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## MATH 106: Calculus I (ACE 3)
- **ACE 1:** Written Texts/Research & Knowledge Skills 3
- **ACE 6:** Social Sciences 3
- Language Prerequisite - 101 Level (Elective) 5
- **Total Hours:** 16

## MATH 107: Calculus II (CDR B)
- **CDR A:** Written Communication 3
- Language Prerequisite - 102 Level (Elective) 5
- Elective/Minor/Secondary Major/Pre-Professional/Science 3
- **Total Hours:** 15

## MATH 208: Calculus III
- **ACE 2:** Communication Skills 4
- **CDR B, BL:** Natural, Physical & Mathematical Sciences w/Lab 3
- Language Requirement - 201 Level (CDR E) 3
- **Total Hours:** 14

## MATH 325: Elementary Analysis
- Advanced Mathematics Option/Area of Focus Course 3
- **CDR C:** Humanities 3
- **Total Hours:** 15

## Advanced Mathematics 4XX Course
- College Distribution Requirement (CDR) D: Social Sciences 3
- **ACE 9:** Global Awareness & Human Diversity 3
- Elective/Minor/Secondary Major/Pre-Professional/Science 3
- **Total Hours:** 15

## Advanced Mathematics 4XX Course (ACE 10)
- CDR F: Additional Breadth 3
- **Total Hours:** 15

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**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.