NORTHERN ARIZONA UNIVERSITY
College of Engineering & Natural Sciences

"The essence of mathematics is not to make simple things complicated, but to make complicated things simple."

–S. Gudder

Degree Programs

- **Bachelor of Science in Mathematics**
- **Bachelor of Science in Mathematics, Extended Major**
  Emphases in actuarial science, applied mathematics, pure mathematics, or statistics
- **Bachelor of Science Education in Mathematics**
- **Bachelor of Science in Physics and Mathematics**
- **Bachelor of Arts in Liberal Studies**
  Emphasis in mathematics and statistics
- **Minor in Mathematics**
- **Minor in Mathematics Education**
- **Minor in Statistics**
  Emphasis in Mathematics for Elementary Education majors
  Emphasis in Applied Mathematics/Statistics for Environmental Science majors

"My advisors were excellent because they always supported me and pushed me to do my best and go one step further. They cared not only about my academic progress but about me as a person. They believed in me even when I didn't."

–Mathematics Graduate, Class of 2004

You appreciate the beauty of mathematics. You relish equations, love the challenge of formulating a problem, and enjoy the satisfaction of finding a solution. You love math!

You also understand the importance of your passion. Mathematics is a profession in its own right, but it's also an essential tool in every physical and social science, business, engineering, marketing, and countless related careers. Statistics deals with the collection and analysis of numerical data; like mathematics, it is useful in every field. Government and industry employers need skilled mathematicians and statisticians for operations research, numerical analysis, simulation and modeling, data analysis, market research, and commercial surveys. A major in mathematics or statistics opens the door to many great job possibilities.

It doesn't take a "math brain" to figure out that you + NAU = success.

Career Opportunities

Study to become an . . .

- Actuary
- Accountant
- Biostatistician
- Community college teacher
- Computer programmer
- Economist*
- Engineer*
- Financial analyst
- Mathematician
- Secondary school teacher
- Statistician

Begin your career in . . .

- Defense industries
- Government agencies
- Higher education
- High-tech industries
- Insurance
- Investment banking
- Research and development

*Further study required

Department of Mathematics and Statistics PO Box 5717 Flagstaff, AZ 86011 928-523-3481

Explore Courses that Jump-start Your Career

Focus on the finite
Our **Discrete Mathematics** course studies mathematical structures that do not support or require the notion of continuity. This field has many applications to computer science. You will explore graph theory and combinatorics, with an emphasis on problem solving.

Share what you know
Understanding math is one thing, teaching is quite another. Hone your classroom skills in **Methods of Teaching Secondary School Mathematics**. You will explore topics and issues related to teaching and learning algebra, geometry, pre-calculus, calculus, probability, and statistics in grades 7 through 12.

Using the numbers
Statistics express numerical data on everything from global warming to per capita chocolate consumption in Switzerland (10 kilograms per year). Statistical methods are used in market research, public policymaking, and countless other applications. In **Applied Statistics**, you'll learn graphical and quantitative description of data; binomial, normal, and *t* distributions; one- and two-sample hypothesis tests and confidence intervals; and more.

Experience the Work World

Make professional connections and gain workplace experience in our **Summer Research Experiences for Undergraduates** program, which includes opportunities to co-publish with faculty mentors. Participate in the annual **Arizona Mathematics Undergraduate Conference**. Use mathematical modeling and simulation to solve real-world problems in our Modeling & Simulation Lab. We also help students find summer internships at the Raytheon Company, and with other corporate partners.

Participate!

Sharpen your mind and make friends in the student chapter of the **Mathematics Association of America**. Share the importance of math with the world and promote a love of mathematical beauty. Members participate in community service, including High School Math Day and the Coconino and Yavapai County Math Contests.

Study Abroad

Study for a summer, a semester, or an academic year in universities around the globe. The university has cooperative agreements with institutions in Australia, Canada, France, Germany, Ghana, India, Ireland, Malta, New Zealand, Norway, Scotland, and the United Kingdom. We provide international education opportunities to all academically qualified students. Start your travel planning with a visit to nau.edu/international.

Finish in Four

Stay on a four-year track to your degree and save money in the process. The university guarantees that you will have access to the courses you'll need to graduate on time. It's your responsibility to talk to an advisor early. All mathematics degree paths are eligible. Visit nau.edu/finishinfour.

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