

MATH

Where research is part of the curriculum

Mathematics at UAH

Mathematics plays an important role in most areas of our world, from forensic pathology to weather prediction, to disease control and prevention, to rockets that launch people into outer space.

Studying mathematics helps to develop analytical skills and the ability to work in a problem-solving environment. No matter what the profession or field, mathematics is often the backbone that supports the structure. Mathematicians are the silent detectives, solving problems and discovering new territories.

There are many reasons to get your math degree at UAH, including the quality of the internationally-recognized faculty; the department's size, which permits considerable individual help; the faculty's dedication to excellence in both teaching and research; and course options that can be adapted to different careers. Class scheduling is flexible, with both day and evening classes.

The UAH advantage

- **Plenty of support (labs, tutors and study programs) to help the student**
- **Opportunities for undergraduate students to get involved in research**
- **Faculty research helps them link textbook math to the real world**



Asuka Eguchi, a junior from Huntsville with double majors in mathematics and biology, likes the opportunity she has had to get involved in research at UAHuntsville: She went to work in a lab while she was still a freshman. That lab and the Mathematical Sciences Department are now in UA Huntsville's new Shelby Center for Science and Technology.

UAHuntsville
THE UNIVERSITY OF ALABAMA IN HUNTSVILLE
COLLEGE OF SCIENCE

Mathematical Sciences Department

What do mathematics graduates do?

Because mathematics is such a versatile major, mathematics leads to interesting and rewarding career choices. Students who major in mathematics find themselves working in diverse areas, such as biology, computer science, medicine, engineering, meteorology, education or gaming development.

Mathematics graduates continue to be in high demand. Demand for their expertise is expected to increase substantially in coming years, making your math degree one of the most marketable in the workplace.

Salaries for math majors are excellent, with the average salary for a graduate with a B.S. in mathematics being equal to graduates with a Master's degree in other areas.

There is a growing need in government and industry for statisticians and mathematicians. A wide range of industries has also realized that the analytical training and logical mind of the mathematician are beneficial in most areas of business.

In either government or industry, mathematicians

The curriculum

UAH offers both the B.A. and B.S. degrees in mathematics. There is also a program of study leading to a mathematics teaching certificate. Course options can be adapted to different career goals. Whichever option is selected, our graduates are well prepared to enter the job market or to continue their studies at the graduate level.

work with other scientists as part of a team, solving a variety of problems. These might include translating mathematical problems into computational procedures, developing reasonable math models to predict economic or business behaviors, and designing math models to predict the behavior of phenomena in the areas of life sciences, operations research, manufacturing operations, physics and much more.

Math graduates must be able to communicate effectively, so they can interpret problems and present technical results to others.

Nationally, the job outlook for mathematicians is excellent. In Huntsville, which has many high-tech industries, local opportunities for mathematicians are broader and more varied than those found in other job markets across the country.

Research opportunities

Talented mathematics students, especially those planning to go on to graduate school, are encouraged to participate in original research with a faculty mentor.

Mathematics majors can be found involved in research with faculty from the mathematical sciences department as well as from other science and engineering disciplines.

Certain opportunities are available even at the freshman level. UAH's Zhan Scholars program provides financial and other support to help freshmen and their faculty mentors start research programs.



