

TODAY,
SOLVING
MATH
PROBLEMS.
TOMORROW,
SOLVING
WORLD
PROBLEMS.

CapitalUniversity

Capital University is more than just a place to learn about math. It's a place to explore how math can (and will) change the world. The Austin E. Knowlton Foundation shares our passion and is offering a scholarship to help make math (yes, even theoretical math) a reality for students interested in professions that are more than just job titles.

A LEGACY BUILT ON GENEROSITY.

THE AUSTIN E. KNOWLTON FOUNDATION

Austin E. Knowlton was the owner and Chairman of the Knowlton Construction Company, started in Bellefontaine, Ohio, in 1937. Mr. Knowlton was a graduate of Bellefontaine High School in Logan County, Ohio and The Ohio State University, class of 1931, where he received a Bachelor of Science degree in Architectural Engineering. An enthusiastic sportsman, Knowlton raised championship American Saddlebred horses, was co-founder of the Cincinnati Bengals, a minority owner in the Cincinnati Reds, and was instrumental in building Riverfront Stadium.

Austin E. "Dutch" Knowlton believed in building the future not just through architecture, but through generosity as well. He designed and built more than 600 significant construction projects all around Ohio and the Midwest, including two buildings at Capital University. Throughout his life, Mr. Knowlton was a leading philanthropist, contributing many scholarships to colleges and universities throughout Ohio, including Capital.

THE KNOWLTON MEMORIAL SCHOLARSHIP

Established in 1981, the Austin E. Knowlton Foundation's mission is to promote and advance higher education in the United States, and to provide direct grants and contributions to qualified colleges and universities. Born and raised in western Ohio, Mr. Knowlton was passionate about giving back to the area that gave so much to him.

The Austin E. Knowlton Memorial Scholarship is specifically designated to a student from Ohio interested in majoring in mathematics or a related field of study.

MATHEMATICS AT CAPITAL.

If you're interested in mathematics (and who isn't?), Capital University provides a solid foundation in both classic and contemporary mathematical topics, supported by a strong liberal arts tradition. We offer a traditional mathematics major and an integrated mathematics major, for those wishing to teach high school math.

YOUR EXPERIENCE

First year students begin with a two-course sequence in calculus and an introduction to mathematical proofs. At the intermediate level, you'll take linear algebra, abstract algebra, mathematical statistics, differential equations and calculus. Integrated mathematics majors also complete courses in geometry and mathematics history. Electives include numerical analysis, combinatorics, or real analysis.

During your junior and senior years, you'll participate in a departmental seminar that features student research and presentations. To emphasize the applicability of mathematics and its relation to other disciplines, majors also complete supporting courses in the sciences and in computing.

OUR APPROACH

Mathematics faculty members at Capital are committed to the university's mission to provide personalized quality education. This commitment is especially reflected in their willingness to provide individual assistance outside the classroom. In addition to the invaluable personal resources, computing resources such as graphing calculators and symbolic computational software play an integral role in many mathematics courses.

YOUR FUTURE

The university's location in Columbus, Ohio, allows you to take advantage of the capital city's business and technological opportunities through internships and part-time employment. Graduates of Capital's mathematics program traditionally experience great success. Many have gone on to complete graduate degrees in mathematics or related disciplines, while most go on to apply their experience in a variety of careers including teaching, architecture, meteorology, computer science, actuarial science, systems analysis, and research and development.

MEET ANDREW, A RECIPIENT OF THE AUSTIN E. KNOWLTON FOUNDATION SCHOLARSHIP.

We thought he might give you the best answers when it comes to the Knowlton Scholarship, the mathematics program, and life at Capital.

ANDREW OURS

Double major in Mathematics and Computer Science with minor in Physics



Q: What do you like best about being a student at Capital?

A: In high school I was a typical student. And, to be honest, I wasn't really sure what I wanted to do. But something changed when I arrived on campus. I became motivated by the professors, the problem solving, and the opportunities to explore. I'm addicted to learning now.

Q: How did you know that you wanted to study mathematics?

A: I've always been fascinated by how things work. Even when I was a little kid. So, math just came easy to me. What I didn't know was all the things you could do with math: computer modeling, architectural physics, and the really cool stuff like quantum mechanics. I had no idea how endless the possibilities are. That's what got me really excited about math. I like to make the numbers dance.

Q: What's it like to study math at Capital?

A: I decided I wanted to be a big fish in a little pond. And that's exactly what I've been encouraged to do at Capital. I've added research projects to my undergraduate studies because I want to learn more than the fundamentals. I want to put what I'm learning to practical use.

Q: What is your most recent research project?

A: I just completed a research project on urban traffic patterns and presented my work at the National Conference on Undergraduate Research. Now, I'm beginning a research project on combining electron shell modeling and nuclear shell modeling. I want to find a way to unify these two theories.

Q: Describe how the faculty at Capital support you.

A: When I started college, I had a misperception that the faculty would be too busy to answer my questions – and I had a lot of them. But I quickly learned that they go out of their way to help students, whether it's additional instruction outside the classroom, helping conceive and explore research projects, or networking outside the university.

Q: What impact has the Knowlton Memorial Scholarship had on you?

A: When I was deciding where to go to college, money was definitely a factor. I wanted to live on campus so I didn't have to commute. The Knowlton Scholarship made the difference. I was able to live on campus so I could spend more time exploring my passion.

Q: What are your future educational goals and career objectives?

A: I want to become a researcher. My specific path? Ideally, in five years I'll be working at someplace cool like Battelle on material science modeling projects. Then, get my PhD. After that, more research. My long-term goal is to be called an expert in my field.

Q: What advice do you have for students who want to study math?

A: Find a subject within math that you love – mainstream or fringe and throw everything you have at it. You may not have all the answers right now, but that's what college is for – to discover yourself while exploring your passion. And you'll learn some pretty amazing things along the way.

CHANGE TOMORROW. APPLY TODAY.

Capital University mathematics majors have gone on to have meaningful, diverse careers. But they all had one thing in common: First, they had to apply.

Visit www.capital.edu/apply-now

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