

Changing the face of **science and math**



chatham
UNIVERSITY

▶ Take your future by storm

Maybe you participated in your middle and high school science fairs. Or always wanted to take things apart to see how they work. Perhaps you just love learning about molecules or insects or calculus. Whatever it is about science or math that you enjoy, **you need an education that can give you a solid future.** That's exactly what you'll find at Chatham University.

Chatham is dedicated to changing the face of science and math. When you study at Chatham, you'll learn in a 360° environment that allows you to see what's happening today and tomorrow. You'll explore how to solve problems, push boundaries, and explore solutions as you learn how to move our world forward.

HIGH-CALIBER ACADEMICS

Science and math students at Chatham don't just sit in classrooms and listen to lectures. You'll have **hands-on experience with lab equipment** in your first year, so your learning will come alive. If you're working in biology or environmental science, you'll also have **access to outdoor areas for fieldwork**. Plus, you'll have open-door access to our full-time faculty members, as well as personalized attention and flexibility in and out of the classroom.

In the past few years, Chatham has made a significant financial commitment to both facilities and students in regard to science and math studies. Students receiving B.S. degrees in chemistry and biochemistry are able to have their degrees certified as meeting the rigorous standards of the American Chemical Society. Fewer than 700 of the 5,000 American colleges and universities have achieved this privilege. Also, our faculty has produced more research than other small-sized institutions. Finally, you can also leverage Pittsburgh's tight-knit academic and medical community through connections our faculty has around the region.

RECENT CAPSTONES

by Chatham seniors in science and math include:

- "The Effects of Exercise on Salivary IGA Levels in Collegiate Women"
- "Synthesizing and Testing Analogs of WNT Signaling Inhibitors"
- "Differences in Developmental Timing and Concentration of Alkaloids among Three Western Pennsylvania Populations of *Lobelia siphilitica*"

REAL WORLD OPPORTUNITIES

In addition to academics that help position you for a bright future, Chatham also has **real-world opportunities to benefit you and your goals.**

Research

You'll have the chance to conduct original research in your field. Unlike other colleges, you'll be able to work directly with faculty members and your advisors, not another student or graduate assistant. So you get a jumpstart on putting your classwork knowledge to use.

You can also apply for Research Experiences for Undergraduates (REU) positions, sponsored by the National Science Foundation or others. This program allows undergraduate students to participate in active research projects during the summer before their junior or senior year.

Integrative Capstone Seminar

Science and math students have the opportunity to conduct research within their major through the Integrative Capstone Seminar. This research project is conducted in collaboration with a faculty member during the first term of the senior year. Chatham is one of the few universities across the country that requires research from each student.

Internship

Every student at Chatham completes an internship with credits toward graduation.

Internships allow students to acquire firsthand work experience related to their academic studies and career plans. Your faculty advisor will assist you in choosing an internship that helps you gain experience while you clarify your career goals. Internships also can serve as a reference for you, strengthen your resume, develop connections with professionals in your area of interest, and develop strong work habits.

SCIENCE AND MATH AT CHATHAM

Our science and math curriculum will equip you to pursue careers or further your education in a wide range of fields*. It also means you have the opportunity to conduct original research and gain hands on experience. Plus, you'll be surrounded by students and professors who love science and math just as much as you do.

Biochemistry

Majoring in biochemistry means you'll bridge the disciplines of chemistry and biology, using the theories and protocols to better understand the world around us. With this degree, you'll make an impact through a career in chemistry, biotechnology, or medicine. Students who major in biochemistry also have the opportunity to participate in our Accelerated Graduate Program in partnership with Duquesne University. This special 3/2 program allows you to receive a BS in biochemistry from Chatham, and an MS in Forensics and the Law from Duquesne. Once accepted into Duquesne's program, you'll take courses at both Chatham and Duquesne during your senior year.

Biology

If you're the kind of person who is intrigued by living things and how they thrive, studying biology is a great way to explore your interests. You can prepare for careers in research or industry, or for advanced study in ecology, biology, medicine, or public health.

Chemistry

Take the lead in learning how new pharmaceuticals are created. Or make a difference exploring more efficient, renewable energy sources. With your degree, you'll be ready for graduate or professional programs in a variety of fields.

Math

The goal of Chatham's mathematics program is to help you build a solid foundation of mathematical knowledge. You'll be prepared for graduate or engineering study, employment in a wide range of industries, or for elementary or secondary teaching certification.

Physics

Gain a deep understanding of the connections between physics, mathematics, and other sciences, as well as develop your capacity for problem solving and critical thinking. And, through an extraordinary collaboration with Carnegie Mellon University, you can learn among the leading minds of physics.

Environmental science

Use your passion for Mother Earth and improve our environment, advance sustainability and make a difference in how people understand and decide on sensitive issues. You'll be equipped to enter the government, non-profit, academic, or private sectors as an environmental scientist, engineer, activist, business manager, or teacher.

Exercise science

Immerse yourself in the science of fitness. Study the science of physical movement, and the methods for optimizing the preventive and rehabilitative effects of exercise. Your degree will allow you to pursue graduate study in physical therapy, medicine, or other health science programs, or to enter professional practice areas in a variety of fields, including exercise physiology, exercise and fitness training, hospital-based and corporate wellness programming, sports medicine, and coaching.

*INTEGRATED DEGREE PROGRAM

The Integrated Degree Program allows you to **earn both your bachelor's and master's degrees in as few as five years**. It's an effective way to save both time and money. With your science or math undergraduate degree, you can work toward the following graduate degrees:

- Master of Occupational Therapy
- Master of Physician Assistant Studies
- Master of Arts in Psychology
- Master of Science in Counseling Psychology
- Master of Science in Biology
- Master of Science in Green Chemistry

“My goal with every student is not to teach them everything they'll ever need to know, but that learning is worth the effort. By challenging students in and out of the classroom, I strive to help them achieve excellence in academics as well as a responsibility to the greater world in which they live.”

— **ROBERT LETTAN, PH.D.**
Assistant Professor of Chemistry



SPECIAL SCHOLARSHIPS

For biochemistry, biology, chemistry

Chatham is participating in an S-STEM grant from the National Science Foundation to provide scholarships for academically talented undergraduate students in biology, chemistry, and biochemistry. To qualify, students need to be working toward a career in basic or applied science, not health or medical fields.

In addition to any merit and financial aid that students may qualify for from Chatham, each student will be eligible to receive an additional scholarship of **up to \$10,000 per year for four years**. With programs like this, you may be able to cover a good deal of your tuition and reduce your college debt. For more information, please visit chatham.edu/sstem.

LIFE AS A SCIENCE OR MATH STUDENT

Chatham encourages all students, regardless of program, to **explore their academic interests through extracurricular activities**.

Students in the mathematics program have the opportunity to participate in the COMAP (Consortium for Mathematics and Its Applications) competition to solve real-world problems, attend conferences of Pi Mu Epsilon, the mathematics honor society, as well as presenting papers as part of the Mathematical Association of America.

Students majoring in biology, biochemistry, and chemistry might want to check out activities such as Beta Beta Beta, the national biological honor society; BioSociety; and Green Horizons, the University's environmental collective responsible for promoting sustainable living and awareness. Past Green Horizons activities include a bike-in movie and the annual "Green Week," which involves the "veg pledge," environmentally themed teach-ins, and more.

Of course, there are dozens of other activities that Chatham students can enjoy while at school. To see more, check out chatham.edu/campuslife.

OUTCOMES

Recent graduates work or are continuing their education at the following:

- Chemist for the Centers for Disease Control in Washington, D.C.
- Chemist for PPG Industries in Pittsburgh
- Ph.D. program in fire protection science at Worcester Polytechnic Institute
- Fellowship at the National Cancer Institute in 2012-2013
- Ph.D. program in molecular toxicology at University of California-Davis
- Graduate school at William and Mary's Virginia Institute of Marine Science

GET STARTED

Visit. Join us during one of our numerous weekend events and open houses held throughout the year. Details at chatham.edu/admission/events. Or arrange a personal tour—learn more at chatham.edu/visit.

Apply. Visit chatham.edu/apply for online application instructions.

Finance. Your counselor or our Office of Financial Aid can help you determine the best options for paying for your degree. Explore chatham.edu/financialaid and be sure to include Chatham on your FAFSA by adding our school code: 003244.



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