Changing the face of science and math

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.

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
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Internship
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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”

Take your future by storm

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Learn more

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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.

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 engineering study, employment in a wide range of industries, or for elementary or secondary teaching certification.

Math

The goal of Chatham’s mathematics program is to help you build a solid foundation of mathematical knowledge. You’ll be prepared for advanced study in ecology, biology, medicine, or public health.

Science & Sustainability

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.

Environmental science

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.

SPECIAL SCHOLARSHIPS

For biochemistry, biology, and 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.

OUTCOMES

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

• Ph.D. program in molecular toxicology at the University of California-Davis
• Fellowship at the National Cancer Institute in Bethesda, Maryland
• 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 the University of California-Davis
• Graduate school at William and Mary’s Virginia Institute of Marine Science

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.

GET STARTED

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