A hands-on science degree.

DUQUESNE UNIVERSITY
Bayer School of Natural and Environmental Sciences
When you choose to study science at Duquesne, you’re choosing a truly unique place to learn.

Here, you will become a well-rounded, scientific thinker through challenging classes combined with hands-on learning in the lab. You’ll have opportunities to work on real research as an undergraduate, using the latest equipment as you make meaningful contributions to science.

Throughout your time here, you’ll learn from faculty who are as passionate about their research as they are about teaching and mentoring students. They’ll work with you, one-on-one, helping you find your own unique path to success.

Discover science. Discover who you are.

Jaclyn Gross
B.S. Environmental Science '18
“Duquesne faculty play a major role in helping students discover a career in their desired field after graduation. The Bayer School has the best curriculum for my major, and I knew this would be the best place to follow my future plans.”
Academics that will challenge you.

Our undergraduate programs are designed to help you become the best scientist that you can be.

The biological sciences program at Duquesne is the only one of its kind in the country featuring SuperLab. This innovative lab features an intensive, seven-hour-per-week laboratory session that emphasizes high-level laboratory techniques and fosters interpersonal development and presentation skills.

Biological Sciences
B.S., Ph.D.
duq.edu/biology

Chemistry and Biochemistry
B.S., Ph.D.
duq.edu/chemistry

Environmental Science
B.S., B.S./M.S., M.S.
duq.edu/environmental-science

Forensic Science and Law
B.A. or B.S./M.S.
duq.edu/forensic-science

Physics and Binary Engineering
B.A., B.S., B.A./B.S.,
B.A. or B.S./M.S.Ed.
duq.edu/physics

Science Education
B.S./M.S.Ed.
duq.edu/science-education

Duquesne's Pittsburgh campus is ideal for environmental science majors because it provides opportunities to study current urban, industrial and rural environmental issues, and it also provides access to numerous environmental organizations. Students have the option to couple their B.S degree with an accelerated M.S. in Environmental Science and Management.

This exciting and challenging entry-level master's degree program allows students to experience the diverse nature of forensic science in modern society. A rigorous science curriculum and integration of specific areas of the law serve as the foundation of the program. The program allows incoming freshmen to earn a graduate degree in just five years, while obtaining a bachelor's after the fourth year.

If there is one word to describe the physics program at Duquesne, it is versatility. After completing a common sequence during the first two years, students can tailor their coursework to the depth and breadth necessary to support their chosen careers. At the end of Year 3 of our dual-degree binary engineering program, you can formally transfer to the University of Pittsburgh or Case Western Reserve University for Years 4 and 5.

Our accelerated science education program gives students a competitive edge when seeking positions as high school science teachers. Through a partnership between the Bayer School and the School of Education, Duquesne is the only university in the Pittsburgh region that enables students to earn a B.S. in biological sciences, chemistry or physics with an M.S. in Secondary Education and initial certification in just five years.

Pre-Medical and Health Professions Programs

Pre-Medical and Health Professions Programs can guide you through complex medical and professional school applications, and help you improve interview skills. You can also learn basic clinical skills and earn certifications through pre-medical learning opportunities. Visit duq.edu/pmhpp to learn more.

For students pursuing careers in medical or other health-related fields, Duquesne's Pre-Medical and Health Professions Programs can guide you through complex medical and professional school applications, and help you improve interview skills. You can also learn basic clinical skills and earn certifications through pre-medical learning opportunities. Visit duq.edu/pmhpp to learn more.

Megan Wasson
B.S. Chemistry ’17
“My education at the Bayer School is helping me to develop critical thinking and communication skills. Our classes stress independent work that harnesses our analytical capacity for creative problem solving—situations that I will encounter in my career path.”

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That’s what you’ll find here at Duquesne’s Bayer School. You’ll work with some of the most sophisticated lab equipment in work spaces that help you collaborate with professors, grad students and fellow undergrad student scientists. You’ll be learning science by doing science, and making friendships to last a lifetime.

As an undergraduate in the Bayer School, you’ll have the chance to work alongside faculty on groundbreaking research projects funded by federal agencies and prestigious organizations such as the National Science Foundation, American Chemical Society, National Institutes of Health and the World Wildlife Fund. These opportunities give you exposure to scientific work that makes a real difference.

And your research work doesn’t have to stop when summer comes around. Our annual Undergraduate Summer Research Program is a 10-week, intensive research experience that includes seminars and community service opportunities. It’s one of the largest summer research programs of its kind in western Pennsylvania. Learn more at duq.edu/urp.
Personalized attention from faculty at the top of their fields. Duquesne's professors are renowned scholars and scientists who are actively engaged in research. They're also amazing teachers and engaged mentors, helping you become the best you can be.

Bayer School faculty bring their professional experiences directly into the classroom, embracing their dual roles as teachers and researchers. They're available to help students like you inside and out of class. Our accomplished faculty take great pride in helping students to think like scientists by having them do scientific work. It's what they do best.

At the beginning of your first semester, an assigned faculty mentor will meet with you to discuss academic and career goals, and to help you get on a path for success. Throughout your Duquesne years, this mentor will help you grow as a student scientist, providing solid advice for your next steps after graduation.

Learning and research beyond campus.
By participating in academic work that addresses community needs, you’ll enhance your education, boost your résumé and become a global citizen. Examples of science-based community-engaged learning experiences include:

- Tutoring in local schools
- Environmental data monitoring such as water sampling to detect toxic mine drainage
- Improving water quality in African countries through Duquesne’s Pure Thirst initiative
- Habitat restoration at Murphy’s Bottom in nearby Armstrong County
- Developing an urban farm and adjacent nature park

Learn more about Bayer School’s community engagement projects: duq.edu/science/community

Connecting you to opportunity.
From the moment you start classes, we stand ready to help you succeed. While you’re in school, and after graduation.

Whether you know exactly how you want your science career to take shape, or need some assistance along the way, Duquesne will help you unlock your potential. In addition to your faculty mentor, the University’s Career Services Center can connect you to job fairs, job shadow days, on-campus interviews, internships, job search advice and more.

Visit duq.edu/career-services to learn more.

With this kind of support behind them, our graduates find successful careers in a wide range of natural and environmental science fields. And you will, too. Recent graduates have gone on to be scientists, analysts and healthcare professionals in companies including Quest Diagnostics, Bayer, Liquid X Printed Metals and Civil and Environmental Consultants.

Find your crowd.
Get involved with science-based student organizations, including:
- Alpha Chi Sigma professional chemistry fraternity
- Beta Beta Beta national biology honor society
- Delta Delta Epsilon forensic science honor society
- Ecology Club environmental conservation
- Evergreen neighborhood cleanups and sustainability
- Phi Sigma Lambda forensic science and law fraternity
- Sigma Pi Sigma national physics honor society

Find where you fit in at duq.edu/student-organizations

In 2015, Duquesne was selected as the only university in southwestern Pennsylvania to receive the Carnegie Foundation’s Community Engagement Classification for producing notable research that makes a difference.

Zachary Resko
B.S. Biological Sciences ’17
Goldwater Scholarship Award Recipient (2016-17)
“The experience of learning how to write fellowship and scholarship applications while studying at Duquesne will be valuable in my future. It is an honor to be nominated and receive the national recognition for this prestigious award.”

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Go to school in a city that’s a science hotspot.
With its unique geography and an abundance of technology and health-related companies, Duquesne’s location in the heart of Pittsburgh is the perfect place to engage in science.

Pittsburgh is recognized as a national hub for innovation and ingenuity. With deep roots in the steel, iron and manufacturing industries, Pittsburgh and its businesses have always led the way in sparking new ideas and fresh opportunities.

Whether your future science career is in energy research, medical and health technologies, or manufacturing, you can gain real-world experience at some of Pittsburgh’s most admired institutions. As part of their recent studies, Bayer School students have taken part in research projects at prestigious organizations such as UPMC and Allegheny Health Network.

Explore all the fun things Pittsburgh has to offer, too.
In addition to its flourishing science and technology industries, Pittsburgh offers a lot of ways to have fun.
Get active and go for a bike ride or a run on Pittsburgh’s 24 miles of riverfront trails within city limits. Or check out Point State Park right downtown.
Are performances more your thing? Duquesne’s campus is just blocks away from Pittsburgh’s Cultural District. There, you can listen to a world-class symphony, see a Broadway show, or hit a local jazz club. Your favorite radio headliners come to town, too, at venues like the CONSOL Energy Center, Stage AE and the Benedum Center.
And of course...we’re the City of Champions. Root for the black and gold at Steelers, Penguins and Pirates games. All within walking distance of campus.

Explore more at duq.edu/pittsburgh

A great education at a great price.
A Duquesne degree is an investment in your future, and it’s more affordable than you might think.
Duquesne is regularly ranked as a top-tier university and research institution, and a great college value, by notable sources such as U.S. News & World Report, Forbes Magazine, Kiplinger’s and the Princeton Review. At Duquesne, the real value of a Duquesne education is in how well it prepares you for a lifetime of success.
When you apply for admission as an incoming freshman, you’re automatically considered for scholarships to help finance your education. Duquesne invests $62.9 million in our undergraduate students each year through University-based scholarships, and total aid from all sources exceeds $173 million.
The Office of Financial Aid can provide you with more information on grants, scholarships and loans that are available to Duquesne students.
Visit duq.edu/financial-aid to learn more.
About Duquesne
A nationally ranked Catholic university, Duquesne is recognized for its outstanding academic and research programs. The University has earned accolades from U.S. News & World Report, Princeton Review, Bloomberg Businessweek and Washington Monthly Magazine. Situated in the heart of downtown Pittsburgh, Duquesne is home to nearly 10,000 students in 80 undergraduate and 85 graduate programs across nine schools of study.

Call us: 412.396.4900
Write us: science@duq.edu
Visit us: Schedule a campus tour at duq.edu/visit

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