

Research and experiential learning at Peckham Hall

MENTORED BY FACULTY, students participate in research projects as early as their freshman year, providing exciting opportunities for in-depth collaboration in the process of discovery.



Peckham Hall's design promotes learning and working together across disciplines, allowing problem-based learning that is individual, team-based, and interdisciplinary between math, chemistry, biochemistry, biology, health and human services, and other areas of study.

The best preparation for career and academic success is not a singular experience. At Nazareth, it's a dynamic combination of internships, research projects, volunteering, global experiences, clinical work, mentorship, coaching, and reflection that builds skills, confidence, and resumes.

These research, internships, and other experiential learning opportunities are increasingly valued upon graduation, giving our students an advantage as they apply for employment or for graduate studies in the sciences, health fields, mathematics, veterinary science, and medical school.

In fact, recent grads—the first to have studied in this new building—report that they felt highly prepared for their careers or graduate studies after completing their Nazareth degree.

Outside Peckham Hall, students take part in international and national meetings of professional chemistry, biology, allied health, and math societies. They also participate in special community projects and partnerships, such as Science Days at the Rochester Museum and Science Center and the Science Olympiad at local schools.

Thank you for your generous contribution to Peckham Hall.

The positive effect of your gift lives on as each new class of Nazareth College students benefits from the extraordinary learning opportunities this inspiring facility provides.

Cutting-edge facilities at Peckham Hall

- \$1.2 million anatomy and physiology laboratory with six-table human gross anatomy dissection suite.
- Interdisciplinary Lab, a unique space designed for collaboration among math, chemistry, biology, and health and human services students.
- Expanded lab space for faculty-student research initiatives.
- Dedicated lab space for clinical laboratory science majors.
- 900-square-foot general biology lab.

LEARN MORE:

naz.edu/peckham-hall

naz.edu/math-science

naz.edu/experiential-learning

naz.edu/virtual-tour



NAZARETH COLLEGE PECKHAM HALL IMPACT REPORT



Your support made this possible.

PECKHAM HALL IS A POWERHOUSE of learning, research, and collaboration. Since its grand opening in fall 2012, this technology-infused integrated center for math and science has transformed the Nazareth College campus and the students who learn here.

A \$30 million state-of-the-art facility, its classrooms, research, and collaborative study spaces provide flexibility and potential as the College continues to meet emerging needs for academic programs and career-ready science, math, and allied health care professionals in our community.

In fact, thanks largely to this facility, several new programs and degrees have been added to our suite of offerings.

EXCEPTIONAL OUTCOMES MADE POSSIBLE BY PECKHAM HALL:

- **New majors and programs** are in place thanks to the cutting-edge technology and flexible and collaborative spaces, which continue to adapt to new academic needs and programs.
- **Increased enrollment** in the sciences and allied health majors, which translates to increased revenue for the College and, with it, the ability to continue to provide and expand the highest standard of academic offerings to future students.
- **Research and experiential opportunities** for students and faculty have dramatically increased, supported by the space, labs, equipment, and means to pursue in-depth and relevant research as never before possible.
- **Enhanced prestige** for Nazareth and a growing reputation as a small school offering big opportunity for college-bound students of math, sciences, and health care.

Indeed, your investment in Peckham Hall has made, and continues to make, a remarkable difference for our students, the College, and our world.



The labs at Peckham Hall are designed for collaborative research and equipped with the resources students and scientists need.

New majors and programs flourish at Peckham Hall

The building's state-of-the-art labs, with complex instrumentation to explore biochemical, cellular, microbiologic, and molecular testing, opened the doors for new majors and programs at Nazareth College, including:

BIOMEDICAL SCIENCES, B.S. (2015)



This interdisciplinary program is designed to meet the growing demand for bachelor-level scientists in health care, industry, government, and academia. Built upon a strong biology, chemistry, physics, and math core, the B.S. in biomedical sciences offers four clearly defined career tracks as well as flexible tracks that will allow students to tailor a course of study to suit their specific academic and career interests and goals.

Students planning graduate studies or careers in medicine, dentistry, or pharmacy; public health; nutrition; or health care administration are excellent candidates for this major. Those looking to work in pharmaceutical or medical sales fields, or who aspire to careers as clinical, biological, chemical, or forensic technicians, are also well-suited to follow this course of study.

CLINICAL LABORATORY SCIENCES, B.S. (2014)



Clinical laboratory scientists play an essential role in today's health care industry, and qualified professionals are in demand. Using complex instrumentation, they provide vital support to medical teams during health crises and assist in determining accurate diagnoses and effective treatments. In research settings they actively explore ways to develop more effective and efficient testing processes to improve patient outcomes.

Nazareth's two-year-old clinical laboratory sciences degree program is rigorous and builds a solid foundation in the sciences while providing intensive hands-on experience with current medical lab technologies and the latest approaches to patient care. Upon completion of the program and successful licensure by the State of New York, graduates are well-prepared for employment in health care and research settings or ready to further their studies at graduate or medical school.

PUBLIC HEALTH, B.A. AND B.S. (2015)



This major, unique among colleges in this region, examines health issues at the population level and explores how policies affecting the environment, media, government, and health care delivery systems impact our health.

Nazareth's B.A. degree in public health prepares students with an interest in the socio-cultural aspects of public health for careers in advocacy, health education, non-profit, and governmental work in policy and administration. Students who complete the B.S. track are well-equipped to pursue advanced education in health science or graduate and professional programs or work in biostatistics, environmental sciences, epidemiology, or medicine, dentistry, or nursing.

TOXICOLOGY, B.S. (2013)

The Nazareth College toxicology program is the only one like it offered in greater Rochester and is one of only a dozen undergraduate toxicology programs in the country. Students select from three tracks to tailor the curriculum to their interests and prepare for the rapidly growing career opportunities this field offers.

Toxicologists help answer the question "How does what we're exposed to through our air, water, food, and other sources affect our health?" by studying the harmful effects of all types of chemicals on biological systems (humans, animals, and plants) and the environment. The field continues to grow rapidly due to the vast numbers of new chemicals that enter the market each year through the pharmaceutical and chemical industries and the need for careful government oversight of this process.



SUMMER RESEARCH PROGRAM FOR HIGH SCHOOL STUDENTS (2016)

The Nazareth Summer Research Program for High School Students is an innovative new five-week interdisciplinary research program in biology, chemistry, and environmental science. Focused on providing motivated high school students with the opportunity to conduct hands-on research, the program pays accepted students a \$1,000 stipend, allowing them the financial freedom to spend their summer learning and exploring the sciences.

Research is overseen by Nazareth faculty members and experienced undergraduate student researchers. This summer's project involves sampling, detection, analysis, and possible bioremediation of pollutants in area waterways.



Impact on enrollment

Peckham Hall has leveraged an increase in student enrollment. As envisioned, future scientists, health care workers, and educators are inspired and supported in an environment that provides hands-on and evidence-based training.

590:

Number of health and human services undergraduate and graduate students who take classes in Peckham Hall each semester.

71%

Enrollment increase in the biology and chemistry undergrad majors since Peckham Hall opened its doors.

800: NUMBER OF SCIENCE, ALLIED HEALTH, AND MATH MAJORS WHO COMPLETED CLASSES AND LABS AT PECKHAM HALL DURING FY16.

100%: Every Nazareth student takes courses in the sciences and math as part of their core curriculum requirements, benefitting from the rich learning environment of Peckham Hall.

9 MATH & SCIENCE MAJORS

- Biochemistry
- Biology
- Biomedical Sciences
- Chemistry
- Clinical Laboratory Sciences
- Environmental Science and Sustainability
- Mathematics
- Public Health
- Toxicology