

William Paterson University's Science Complex At the Forefront of Science Education in New Jersey



William Paterson University's expanded and renovated 232,000-square-foot Science Complex features smart classrooms and sophisticated research laboratories designed to encourage an interactive learning environment. The facility is home to the anthropology, biology, chemistry, computer science, environmental science, mathematics, physics, and psychology departments.

Science Hall West contains leadingedge modular research laboratories designed to support undergraduate studies and research and teaching labs for upper-level courses in areas such as biology, biotechnology, molecular research, physics, tissue culture, physical, analytical and organic chemistry, physiology, environmental science and ecology, and instrumentation. Research and laboratory spaces are configured to allow for collaboration between faculty and students. Science Hall East features new computer labs, teaching labs for introductory courses, research labs, a psychology clinical training suite, a microscopy suite, an animal research facility, a new greenhouse, the Science Enrichment Center, and a mathematics learning center. The entire complex features smart classrooms with digital network and audiovisual capabilities and wireless technology. The building also contains two 75-seat lecture halls, one with traditional theater seating, and the other in a nontraditional horseshoe shape.

Laboratories throughout the complex feature a wide variety of sophisticated instrumentation for cutting-edge teaching and research on both the undergraduate and graduate levels, all designed to provide students with the advanced technological skills they require in a variety of high-tech industries in New Jersey and beyond.

Numerous gathering spaces are provided for students, including a large lounge located in a two-story atrium entrance that connects Science East and West. Informal learning spaces are located at the end of each hallway in Science Hall West, allowing students to collaborate and socialize. Large windows throughout the building take advantage of natural light and the complex's location in tree-filled Caldwell Plaza.

William Paterson University



Modular teaching labs can be configured to maximize student learning, while shared research labs provide opportunities for groups of faculty and students to collaborate. Students have access to sophisticated instrumentation, including a microscopy suite with transmission electron, scanning electron, confocal, and fluorescence microscopes, allowing researchers to observe

at the microscopic and cellular level, as well as an expanded animal research facility.





Chemistry

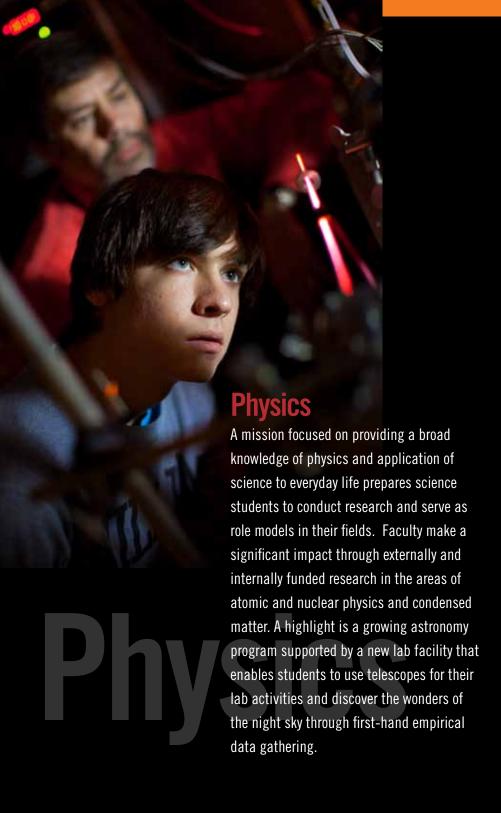
Hands-on training in the operation and application of specialized instrumentation provides students



with a competitive advantage in a wide range of chemical and health-related fields. The chemistry laboratories are equipped with a variety of cutting-edge instruments that allow student and faculty researchers to observe chemical phenomena at the molecular level and include a 400MHz high field (liquid/solid) nuclear magnetic resonance spectrometer, MALDI time-of-

> flight mass spectrometer, gas chromatography-mass spectrometer, and ATR-FTIR spectrometer, as well as





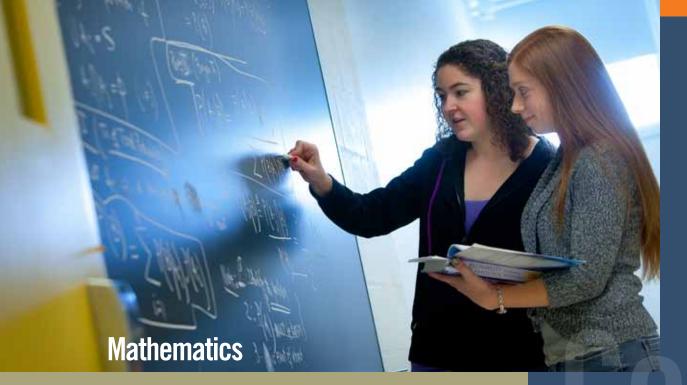


Environmental Science

New state-of-the-art teaching laboratories are dedicated to introductory and upper-level course offerings in a wide array of topics including a new program in environmental sustainability.

Advanced analytical instrumentation for teaching and research, including an atomic absorption spectrometer, ion-chromatography, particle size analysis, chns/o analyzer, scanning electron microscope, x-ray powder diffractometer, and a total organic carbon/total nitrogen analyzer, is utilized to examine geologic and environmental factors.





Expanded facilities provide enhanced support for teaching and research, including a Mathematics Computer Lab equipped with state-of-the-art audiovisual equipment and advanced mathematical software such as Mathematica, Matlab, Geometer's Sketchpad, SAS, and SPSS to support the instruction of upper-level mathematics and statistics courses. In addition, the Math Learning Center is staffed by University math majors who offer walk-in assistance to students in a wide variety of mathematics courses.



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Computer Science

State-of-the-art computer labs and smart classrooms provide an optimal environment for advanced study of computing applications and systems programming and networking. The Computer Science Learning Center offers the opportunity to collaborate on research labs and in study groups. A new open lab provides space for project development, assignments, and student clubs and societies.







College of Science and Health

The College of Science and Health provides undergraduate and graduate students with the resources needed for an excellent education including well-equipped laboratories and sophisticated instruments. Advances in computer and scientific technology are explored and used in the classrooms. Biological and environmental studies students utilize woods, ponds, streams, and a waterfall, all accessible from the campus. Students in health-related subjects receive valuable experience in the many health facilities in northern New Jersey. The College's ten departments—biology, chemistry, computer science, communication disorders and science, environmental science, kinesiology, mathematics, nursing, physics, and public health—include more than 100 full-time faculty who are accomplished teachers, researchers, and grant winners. They foster an environment that combines intellectual inquiry with the learning of practical skills, while nurturing and guiding students toward success in their future roles as knowledgeable and responsible employees and citizens.

College of Humanities and Social Sciences

The College of Humanities and Social Sciences, dedicated to the primacy of the liberal arts in higher education and committed to excellence, prepares students to be responsible citizens and self-directed learners and to lead productive lives in a diverse world. With its scholarly expertise and breadth, its strong service to the University's Core Curriculum, its tradition of pedagogical innovation, and its increasing use of new technologies, the College offers outstanding cross-cultural, interdisciplinary, and global studies programs, as well as discipline-specific programs. Through its eleven departments—Africana-world studies, anthropology, English, geography and urban studies, history, languages and cultures, philosophy, political science, psychology, sociology, and women's and gender studies—the College supports thousands of undergraduate and graduate students pursuing bachelor's and master's degrees at the University. Members of the College's faculty come from the most prestigious Ph.D.-granting institutions in the nation and include many Fulbright fellows and recipients of other major grants and honors.





Science Enrichment Center

A science resource facility for students and faculty, the Center provides tutorial assistance, references, a Virtual Science Resource Center, laboratory equipment, multimedia, study and other science skill training, workshops, cooperative learning, technological assistance, and mentors. This program provides the opportunity for all students, regardless of

previous academic background, to excel in science and enables science professors to maintain high academic standards in their courses.



The Career Development and Gloria S. Williams Advisement Center works in collaboration with the University and community constituents to provide students with the essential tools needed to achieve academic and career success. The Center continually seeks opportunities to partner with employers to provide students with full-time and part-time positions as well as internships.

Contact: Victoria Nauta, Associate Director, Employer Relations Career Development and Gloria S. Williams Advisement Center 973.720.2556 nautav@wpunj.edu

Job Shadowing Program

This initiative of the Office of Alumni Relations pairs high-achieving William Paterson juniors and seniors with alumni in their fields. Students shadow alumni in their workplaces for a full day, giving them an inside view of a career they might hope to pursue.

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