The Department of Chemistry and Physical Sciences on Pace University's Westchester campus offers Bachelor of Science (BS) degrees in Chemistry and Biochemistry, both certified by the American Chemical Society. A prestigious seal of approval by the world’s chemists, this accreditation establishes Pace University as one of the nation’s foremost universities and colleges in the field of chemical and physical sciences. Throughout our curriculum, we facilitate student learning and success through the power of chemistry as integrated with case studies in a variety of topical areas of study. Real-life examples include chemical biology, clinical, medicinal, and pharmaceutical chemistry, environmental and forensic chemistry, food and feed chemistry, nutrition and diet, and advanced materials and energy.

We are committed to excellent teaching, scholarly growth, and service, while providing a nurturing environment for our students. Pace University’s motto of *Opportunitas* is central to our teaching philosophy. We take it to mean that our students, upon graduation, will possess the critical and analytical thinking skills, the creative minds, scientific and instrumentation competency, and the specialized abilities to perform proficiently and confidently in the world of science. We not only aim to ensure students learn what they need to be successful scientists and citizens of the world of today, but also to instill in them the ability to learn how to learn so that they can continue to grow with the ever-expanding knowledge of the 21st century. Students often complete 1-2 years of paid internships and land high-paying jobs in the field upon graduation.

**FACULTY AND FACILITIES**

The Dyson Hall of Science, a state-of-the-art multidisciplinary science research and education facility, recently underwent a $7.5 million renovation, which included the creation of more integrated research and teaching space and updated experimentation equipment. Our faculty members are actively engaged in a broad variety of research projects which often involve their students. Research topics include the following:

- **Karen Caldwell**: Remediation of interior building surfaces contaminated by methamphetamine.
- **Irina Gazaryan**: Neuroprotective effect of HIF prolyl hydroxylase inhibition.
- **Cihan Gunduz**: Synthesis and characterization of heterocyclic molecules and their crown ethers derivatives’ cation bonding and fluorescence properties.
- **Sergey Kazakov**: Hydrogel/lipid membrane assembly: modeling membrane system of cell; hydrogel nanoparticles, lipogels, nanofilms, liposomes, and lipid membrane synthesis manipulation and characterization; synthetic and natural ionic reservoirs; bioanalytical devices, drug delivery and control release systems.
- **Mary Minnis**: Geographic information systems (GIS), consumer chemistry, and environmental chemistry.
- **David N. Rahni (Chair)**: Bio-electro-analytical chemistry; development of bio-sensors and bio-actuators for in-vivo monitoring or the in vitro assay of key metabolites in tissues or bodily fluids; environmental, forensics, and neuroscience.
- **Mohsen Shiri-Garakani**: Quantum spacetime, unified gravity, foundations of quantum theory, quantum logic, history and philosophy of physics, applications of physics in complex system theory.

For more information, please contact Amy Pellon at apellon@pace.edu.