Physics

The study of physics must be rigorous, but it doesn't have to be intimidating — and it's not at Delaware State. Our Bachelor of Physics degree combines first-rate academics with a spirit of mentorship and inclusion. We welcome undergraduates into the community of scientists, offering plenty of face time with full professors and support from peers and graduate students. Students get an opportunity to

- participate in research projects
- work with high-level instrumentation such as spectrometers, cryogenic systems, lasers, and high-pressure systems
- use sophisticated computer modeling and simulation programs
- pursue a wide range of specialized interests, including atomic physics, high-pressure physics, solid-state physics, and optics
- receive peer instruction and tutoring
- innovate and pursue their own ideas under the direction of a faculty member

Our program is designed to provide graduates with the competence, as well as the confidence, to pursue careers or advanced degrees in physics.

Professional Preparation

Physics graduates from Delaware State have an outstanding track record, both in the job market and in advanced degree programs. Those who choose to go directly into the work force can market a range of professional skills that include

- research experience
- critical/analytical thinking
- excellent computing skills
- familiarity with current technology and instrumentation

Our graduates find good opportunities in such industries as telecommunications, fiber optics, manufacturing, aerospace, and health sciences.

Faculty

Physics faculty at Delaware State are fully committed to undergraduate education. Our professors teach their own courses and spend many hours in direct, one-on-one interactions with students. They also are accomplished researchers engaged in high-level research for major funding agencies such as the National Aeronautics and Space Administration (NASA), the Department of Defense, the National Science Foundation, and the National Institute of Health (NIH). The physics faculty is diverse, uniting scholars from Asia, Europe, Africa, and North America.

Research and Experience

All physics majors perform an independent, self-directed research project as part of their senior capstone course (titled "Theoretical and Experimental Research"). They also have the opportunity to gain research experience by working in a support role at the Center for Research and Education in Optical Sciences and Applications (CREOSA), a top-flight research facility housed on the Delaware State University campus. Throughout their four-year education, students in the Physics department have the opportunity to interact with physicists from academia, industry, and the nonprofit sector via guest seminars, job fairs, etc.

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