

Physics (BS)



PROGRAM OVERVIEW

Drexel University's innovative Physics program empowers students to solve real-world problems using state-of-the-art techniques, exploring areas as diverse as biophysics and cosmology, nanoscience and particle physics. With a large number of elective courses, the curriculum allows each student to customize their studies to their career interests. Opportunities also exist to pursue courses in teacher certification and other professional requirements.

With personal mentorship from faculty, and close interaction with leading researchers in the field, physics students explore the span of universal phenomena — from the farthest reaches of astrophysics and cosmology to molecular biophysics, condensed matter physics, and subatomic particle physics — gaining a solid foundation for continued study and exploration. Most undergraduates actively participate in one or more research projects, often resulting in co-authored publications and presentations at national conferences.

“KEEPING AN OPEN MIND TO THE TRUE VARIETY OF HUMAN EXPERIENCE SHOULD COME JUST AS NATURALLY AS KEEPING AN OPEN MIND TO QUANTUM WEIRDNESS OR ALL THE OTHER MENTAL GYMNASTICS WE PUT OURSELVES THROUGH AS PHYSICISTS.

IT'S ULTIMATELY WITH ADDED COMPLEXITY OR WITH A DIFFERENT PERSPECTIVE THAT WE MAKE NEW DISCOVERIES ABOUT OURSELVES AND THE NATURE AROUND US.”



**—PHYSICS MAJOR
DMITRI LABELLE '24**





BEYOND THE CLASSROOM

RESEARCH

Physics majors can get involved in scientific research focused on astrophysics, biophysics, condensed matter and particle physics as early as their freshman year. Students have conducted research for the IceCube Neutrino Observatory in Antarctica, worked on cures for sickle cell disease, and taken their studies into space using data from the Hubble Space Telescope. Senior physics majors undertake a yearlong original research project. Many of our students and alums have been nationally recognized with the prestigious Barry Goldwater and Gates Cambridge Scholarships, and with NSF Graduate Research Fellowships.

STUDENT CLUBS AND ORGANIZATIONS

Our award-winning **Society of Physics Students** and **Women in Physics Society** actively mentor younger students and the community at large through outreach activities. The two groups work with high schools and middle schools throughout the Philadelphia area to excite students about science, and they engage the public at monthly observing nights at Drexel's Joseph R. Lynch Observatory, which draws hundreds of visitors.

Students also have a chance to meet and interact with Nobel Prize winners and other renowned physicists at our acclaimed Kaczmarczik Lecture series.

DREXEL CO-OP

Co-operative education options prepare physics students to pursue advanced education and careers across wide-ranging areas. Previous co-op placements include:

PRINCETON PLASMA LABORATORIES, THE ARMY RESEARCH LABS, COLUMBIA MEDICAL CENTER, AND THE NATIONAL OPTICAL ASTROPHYSICS OBSERVATORY

CAREERS

Most physics graduates are employed by educational institutions, industrial firms, government laboratories, or federally funded research and development centers. Our students have gone on to top doctoral physics programs at Harvard, UC Berkeley, Duke, Chicago, Columbia, Stanford and Yale, among others. Outside of academia, our alumni can be found as data scientists at Facebook and Google, engineers at Microsoft, software engineers at the Goddard Space Flight Center and Lockheed Martin, educators at the American Museum of Natural History, founders of startups, and veterinarians and medical doctors.

LEARN MORE
ABOUT THE
PROGRAM



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