

# PHYSICS, B.S. (BEHREND)

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**Begin Campus:** Any Penn State Campus

**End Campus:** Erie

## Program Learning Objectives

- **Core Knowledge:** Learn, integrate, and apply knowledge and methodological approaches from the basic core areas of electricity and magnetism, thermodynamics, optics, and quantum mechanics.
- **Mathematical Models:** Build a conceptual understanding of the connections between our mathematical models and the nature of the universe.
- **Critical Thinking:** Use critical thinking to formulate and solve quantitative physical problems by applying theory, mathematical, and computational methods.
- **Scientific Inquiry:** Apply the methods of scientific inquiry in designing and performing experiments and using data analysis for laboratory and research projects.
- **Communication:** Effectively communicate their course work and research through organized, logical, and scientifically sound oral and written reports.