

MISSION STATEMENT

The mission of the Physics program at New Mexico State University is to offer a degree that prepares our graduating students for careers in a variety of scientific and technical areas as well as for graduate study in physics or related fields.



PROGRAM EDUCATIONAL OBJECTIVES

1. Competitiveness: Graduates are competitive in internationally recognized academic, government, and industrial environments.
2. Adaptability: Graduates exhibit success in solving complex technical problems in a broad range of disciplines subjects to quality engineering processes.
3. Collaboration and Leadership: Graduates have a proven ability to function as part of and/or lead interdisciplinary teams.



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New Mexico State University

Department of Physics

UNDERGRADUATE STUDIES



WHY PHYSICS?

Physics is the study of the fundamental phenomena that govern the natural world. It is the most basic and fundamental science that helps us understand the world around us, the world inside us and beyond.

Students who study Physics or Engineering Physics are ready to work on cutting edge ideas in science and technology, academia, the government, or the private sector. Physics allows you to build a broad range of skills that will help you be competitive in the real world.

STUDENT LIFE

The Physics Department has a number of activities that students can participate in. The Society of Physics Students is open to all majors and members work together to promote the understanding of and inspire passion in physics around the NMSU community.



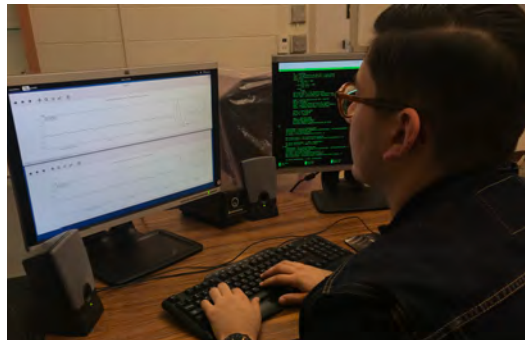
You can also qualify to be in the Sigma Pi Sigma Honor Society, which can only be offered by universities with a strong physics program.



PROGRAM DESCRIPTION

The Physics Department offers a Bachelors of Arts and an ABET - accredited Bachelors of Science in Physics along with a minor that is aimed towards non-physics majors. The department also offers ABET - accredited Bachelors of Science in Engineering Physics.

The BS program requires more science courses and prepares students for a job or continued studies in physics or a related scientific, engineering or technological field. The BA degree allows more flexibility in choosing elective courses and requires a minor in another department.

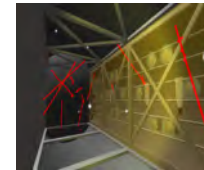


The program also offers five emphasis areas in Physics that include Applied Physics, Computational Physics, Materials Science, Geophysics, and Optics. These emphasis areas will make the student more competitive, while applying to graduate studies or employment.

RESEARCH OPPORTUNITIES

Optics and Materials Science

Drs. Zollner, Vasiliev, Kiefer, Urquidi

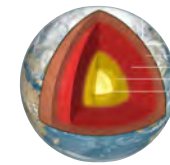


Particle and Nuclear Physics

Drs. Ma. Burkardt, Engelhardt, Papavassiliou, Pate, Sievert, Paolone

Geophysics

Drs. Hearn, Ni (emeritus)



Atmospheric Physics

Dr. Bruce (affiliated faculty)

Research through the Department of Astronomy is also available for students interested in Astrophysical Sciences. They also offer a minor.

