



BACHELOR OF ARTS AND BACHELOR OF SCIENCE

PHYSICS



College of Science and Technology

Physics is the study of the natural world and all its phenomena at the most fundamental level.

PHYSICS

Bachelor of Arts and Bachelor of Science

Program Choices

Students can choose to pursue a bachelor of arts or a bachelor of science. The BS provides a broad background in the theoretical and applied aspects of a student's training and offers excellent preparation both for graduate studies and for intending to enter industry with a bachelor's degree. Both the BS and the BA are options for those planning careers in the medical or life-sciences fields, as well as an analytical career in industry.

Courses include:

- Analytical Mechanics
- Classical Electromagnetism
- Computing for Scientists
- Electronics
- Introduction to Astronomy
- Introduction to Astrophysics
- Introduction to Atomic, Nuclear and Particle Physics
- Introduction to Quantum Mechanics
- Introduction to Solid State Physics
- Optics
- Scientific Computing I, II, III
- Thermal Physics
- Thermodynamics and Kinetic Theory
- Wave Physics

Research Opportunities

Real-world, hands-on research means students learn the latest scientific techniques, from the necessary basics to high-tech analysis to potential scientific breakthroughs. Students will use and understand a variety of laboratory skills for the analysis of physical systems, including data and error analysis, instrumentation, radiation detection, counting statistics, and dimensional analysis. The Department of Physics has a strong research focus, experienced faculty, and a host of advanced technology and instrumentation within the new Science Education and Research Center.

Career Options

Individuals with a degree in physics choose careers in data science, electronics and telecommunications, computer and software engineering, and the laser and optical physics industry, as well as in teaching. Students with bachelor's degrees in physics often secure employment in nuclear medicine, diagnostic imaging, the pharmaceutical industry and other related fields. Students may also choose to pursue graduate degrees concentrating on a particular subfield within the discipline.

Faculty Contacts

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