

College of Sciences Career Guide
Bachelor of Science in Physics
Concentration in Applied Physics

About the Major and Concentration

The Bachelor of Science in Physics with a concentration in Applied Physics is designed to introduce the major branches of physics to those seeking double degrees and for those preparing for professions other than physics. Applied physics is a general term for physics with is intended for a particular technological or practical use. It is usually considered as a bridge or connection between “pure” physics and engineering.

“Applied” is distinguished from “pure” by a subtle combination of factors, such as the motivation and attitude of researchers and the nature of the relationship to the technology or science that may be affected by the work. It usually differs from engineering in that an applied physicist may not be designing something in particular, but rather is using physics or conducting physics research with the aim of developing new technologies or solving an engineering problem.

Skills

Mathematical Reasoning
Problem Solving
Ability to Interpret Data
Critical Thinking

Potential Career Opportunities

Astronomer
Astrophysicist
Atomic, Molecular, Optics Physicist
Chemical Physicist
Computer Scientist
Engineering Physicist
Geophysicist
Government Researcher
Medical Physicist
Nuclear Physicist
Space Physicist
STEM Education

Common Career Areas for this Major

Research and Development

Data and Analysis

Biophysics

Geophysics

Chemical Physics

Engineering Physics

STEM Education