

Program Learning Outcomes for the B.S. in Applied Physics are as follows:

- 1) Graduates will master a broad set of physical principles that form the basis of the physics discipline (the core topics of classical mechanics, electromagnetism, quantum mechanics, and statistical mechanics).
- 2) Graduates will be able to apply the computational and mathematical tools required to analyze and solve physics problems and experiments.
- 3) Graduates will be able to design, implement, analyze & evaluate experiments demonstrating a broad range of physical principles.
- 4) Graduates will be able to apply the tools & content learned in their Physics courses to complex & unique real world problems.
- 5) Graduates will be able comprehend scientific data, to produce scientific writing and to orally present scientific data and other scientific information.

The Applied Physics curriculum will meet the objectives using a flexible upper division curriculum that combines pure physics with overlapping fields such as engineering, biology, or computer science. In national studies, curricular flexibility has been documented as a primary commonality among thriving physics programs.