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.