

## **Program Student Learning Outcomes**

- 1) Carry out the process of scientific investigation, using appropriate lab techniques and safety procedures.
- 2) Apply mathematical techniques to represent, model, and solve physics problems, including real-world problems.
- 3) Write simple computer programs that control scientific experiments, gather physical data, and model or simulate physical processes.
- 4) Apply specific knowledge in the areas of mechanics, electromagnetism, thermal physics, and quantum phenomena to problem solve in the fields and to real-world applications.
- 5) Design, troubleshoot, and test analog and digital electron circuits for real-world applications.
- 6) Keep a laboratory notebook and know how to present scientific information as a technical article, as a formal journal article, or as a public oral presentation.