

# ECE ABET Outcomes 1 through 7

## ABET Criterion 3 Program Outcomes

(To be reached by Instructional Objectives)

The Outcomes can be thought of as attributes of an engineer. Any given course is unlikely to emphasize more than a few of the Outcomes; however, the program as a whole should ensure that every student develop the full set.

1. **Principles:** an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. **Design:** an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. **Communication:** an ability to communicate effectively with a range of audiences
4. **Professionalism:** an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. **Teamwork:** an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. **Analysis:** an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. **Learning:** an ability to acquire and apply new knowledge as needed, using appropriate learning strategies