

Learning Objectives: The S–K–A Scheme

Skills	What students should be able to do by the time the course is completed.
Knowledge	What students should know and understand by the time the course is completed.
Attitudes	For example, how confident students are that they can perform identified skills.

An Example of Learning Objectives

From Professor Steven Hall's "Signals and Systems" Module in Unified Engineering (16.01-16.04), S '04:

Students graduating from 16.030/040 will be able to:

- 1. Demonstrate** an understanding of the fundamental properties of linear systems, by **explaining** the properties to others.
- 2. Use** linear systems tools, especially transform analysis and convolution, to **analyze** and **predict** the behavior of linear systems
- 3. Gain an appreciation for** the importance of linear systems analysis in aerospace systems.

Hall's Measurable Outcomes

1. **Explain** the importance of superposition in the analysis of linear systems (concept test, homework, quiz).
2. **Explain** the role of convolution in the analysis of linear time invariant systems, and **use** convolution to **determine** the response of linear systems to arbitrary inputs.
3. List and apply properties of the unilateral and bilateral Laplace transforms.