

# EECS Objectives and Outcomes

## Program Objectives

We have revised our program objectives along the model used by CEE.

### ***Objectives of the ECE Program***

1. Preparing graduates to pursue post-graduate education in engineering or other professional fields.
2. Preparing graduates for success in technical careers related to electrical and computer engineering.
3. Preparing graduates to become leaders in fields related to electrical and computer engineering.

### ***Objectives of the CSE Program***

1. Preparing graduates to pursue post-graduate education in engineering or other professional fields.
2. Preparing graduates for success in technical careers related to computer science and engineering.
3. Preparing graduates to become leaders in fields related to computer science and engineering.

## Program Outcomes

Because we have aimed at an integrated program, the desired outcomes for our two engineering programs are the same:

1. An ability to configure, apply test conditions, and evaluate outcomes of experimental systems.
2. An ability to design systems, components, or processes that conform to given specifications and cost constraints.
3. An ability to work cooperatively, respectfully, creatively, and responsibly as a member of a team.
4. An ability to identify, formulate, and solve engineering problems.
5. An understanding of the norms of expected behavior in engineering practice and their underlying ethical foundations.
6. An ability to communicate effectively by oral, written, and graphical means.
7. An awareness of global and societal concerns and their importance in developing engineering solutions.
8. An ability to independently acquire and apply required information, and an appreciation of the associated process of life-long learning.
9. A knowledge of contemporary issues.
10. An in-depth ability to use a combination of software, instrumentation, and experimental techniques practiced in circuits, physical electronics, communication, networks and systems, hardware, programming, and computer science theory.

(revised Spring 2008)