

**Computer Engineering
Assessment of Student Learning Plan
Kansas State University**

JAN 12 2005

Check the box if your program's student learning outcomes have been modified since November 2003. If so, please email (apr@ksu.edu) or attach a hard copy to this document.

A. College, Department, and Date

College: College of Engineering
Department: Electrical and Computer Engineering
Date: October 28, 2004

B. Contact Person(s) for the Assessment Plans

David L. Soldan, Professor
Anil Pahwa, Professor and Head

C. Degree Program

B.S. in Computer Engineering

D. Assessment of Student Learning Three-Year Plan

1. Student Learning Outcome(s)

Graduates of the computer engineering program will have:

1. an ability to design a system, component, or process to meet specifications
2. an ability to apply knowledge of science, mathematics, and engineering
3. an ability to use oral and written communications effectively

Relationship to K-State Student Learning Outcomes (insert the program SLOs and check all that apply):

University-wide SLOs (<u>Undergraduate</u> Programs)						
Program SLOs	Knowledge	Critical Thinking	Communication	Diversity	Academic / Professional Integrity	Program SLO is conceptually different from university SLOs
1. an ability to design a system, component, or process to meet specifications	X	X				
2. an ability to apply knowledge of science, mathematics, and engineering	X	X				
3. an ability to use oral and written communications effectively			X			

2. How will learning outcomes be assessed? What groups will be included in the assessment?

Learning Outcomes	Measures			Who will be assessed?
	Direct	Indirect	Not sure	
1. an ability to design a system, component or process to meet specifications	EECE 431 exams and assignments			All students enrolled in the class
		Senior Survey		All seniors
2. the ability to apply knowledge of science, mathematics, and engineering	EECE 511 exam questions			All students enrolled in the class
	EECE 645 exam questions			All students enrolled in the class
		Senior Survey		All seniors
3. an ability to use oral and written communications effectively	EECE 590 oral presentations			All students enrolled in the class
	EECE 590 formal reports			All students enrolled in the class
		Senior Survey		All seniors

3. When will these outcomes be assessed? When and in what format will the results of the assessment be discussed?

Learning Outcomes	Timetable for Assessment of Learning Outcomes			Baseline Created?
	2005	2006	2007	
1. an ability to design a system, component or process to meet specifications	EECE 431 Fall and Spring	EECE 431 Fall and Spring	EECE 431 Spring	3 year baseline created after Spring 2007
	Both semesters	Both semesters	Spring	3 year baseline created 1999
2. the ability to apply knowledge of science, mathematics, and engineering	EECE 511 Fall and Spring	EECE 511 Fall and Spring	EECE 511 Spring	3 year baseline created after Spring 2007
	EECE 645 Fall and Spring	EECE 645 Fall and Spring	EECE 645 Spring	3 year baseline created after Spring 2007
	Both semesters	Both semesters	Spring	3 year baseline created 1999
3. an ability to use oral and written communications effectively	EECE 590 Spring	EECE 590 Spring	EECE 590 Spring	3 year baseline created after Spring 2007
	EECE 590 Fall	EECE 590 Fall	EECE 590 Spring	3 year baseline created after Spring 2007
	Both semesters	Both Semesters	Spring	3 year baseline created 1999

4. What is the unit's process for using assessment results to improve student learning?

Learning Outcomes	Improvement Process
1. an ability to design a system, component or process to meet specifications	The department Course and Curriculum Committee will review data each semester. If changes are indicated the results will be taken to the entire faculty for action. Senior survey results will be monitored and compared to the established baseline.
2. the ability to apply knowledge of science, mathematics, and engineering	The department Course and Curriculum Committee will review data each semester. If changes are indicated the results will be taken to the entire faculty for action. Senior survey results will be monitored and compared to the established baseline.
3. an ability to use oral and written communications effectively	The department Course and Curriculum Committee will review data each semester. If changes are indicated the results will be taken to the entire faculty for action. Senior survey results will be monitored and compared to the established baseline.