

ASSESSMENT WEBSITE INFORMATION

College: Engineering
Chair/Director: Paul Mixon

Degree Program: Electrical Engineering BSEE

DATA SAY:

The surveys indicated that a high percentage of EE graduates (30 - 40% in spring/fall 2008) were not satisfied with the overall program. Basically, the same areas of dissatisfaction were noted by all engineering disciplines. The top five areas of dissatisfaction for EE seniors were Opportunities for interaction with practitioners, Practical experiences within the curriculum, Availability of courses within concentration areas, Number of companies recruiting on campus, and Access to alumni to cultivate career opportunities.

SO WHAT:

The 2008 and 2010 surveys of EE alumni (2000, 2002, 2003, 2005, 2006, and 2008 graduates) were used to assess the program educational objectives (PEOs) for the Electrical Engineering Program, and also to gather comments and suggestions for improving the program. Some suggestions are listed below. Most of these suggestions have been addressed in some way since the 2000 through 2006 alumni graduated from ASU. More practice with public speaking and communications; More math requirements: linear algebra, probability/statistics; More focus on understanding/applying programming skills; Addition of an FE exam refresher course.

HOW WE CHANGED:

In response to graduating senior surveys, more hands-on design experiences have been incorporated into the engineering curriculum. In order to do this, a number of space changes and renovations were made to facilitate project fabrication in the individual discipline areas (CE, EE, and ME) and in the Senior Design II course. Some of these facilities will continue to undergo modification as College needs evolve. In July 2008, the College of Engineering gained sole access to AG 133, 135, and 140 (approximately 3000 square feet) that had been previously shared with the College of Agriculture. A one-time allocation of approximately \$20,000 from the ASU Building & Grounds Committee in summer 2009 provided new lighting and paint in AG 135, paint and addition of an eye wash station and other safety features in AG 140, and renovation of AG 133 as a secured storage area. AG 133, 135, and 140 are now specifically dedicated to engineering fabrication projects for courses in the curriculum (such as Senior Design II). In 2009, ASU-J received a one-time allocation of

approximately \$1.5 million from congressional stimulus funding. The College of Engineering was given a large portion of the funds (\$500,000) to improve existing laboratory infrastructure. Improvement and upgrades were made to 10 laboratory rooms throughout the College in 2010-11.



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HOW WE CHANGED (CONT.):

The College of Engineering began developing discipline-specific degree programs in fall 2007 and gained approval to offer the BSCE, BSEE, and BSME degrees from the Arkansas Department of Higher Education in spring 2008. The new degree programs were first offered by the College of Engineering in fall 2008. As a result of these new programs, the availability of courses within the electrical engineering area should increase over the next few years as enrollment in the program increases.

WHAT WE GOT:

The most recent survey results for graduating EE seniors indicate improvements in program satisfaction. The percentage of graduating EE seniors that are satisfied with the overall program has increased to 100% for every semester since fall 2009.

