Industrial Engineering Assessment Summary – May 2010

This report represents a summary of the 2009-2010 assessment process of the Industrial Engineering program. Table 4 of the Industrial Engineering Program Continuous Improvement Plan, Assessment Manual and Evaluation Process provides a summary of assessment tools used.

Summary of Assessment Results:

1) Alumni Survey: not administrated in January 2010
2) Employer Survey: not administrated in January 2010
3) IE Graduate Exit Questionnaire:
   a) Hypothesis test shows no concerns
   b) Comments:
      i) Negative comment on recommendation of UW-Platteville “No. There is too many GE requirements; things I will never use.”
      ii) Multiple comments on missing computer applications course
      iii) Concerns over general education requirements and complexity of general education system
4) Statistical Data
   a) FE examination results
      i) Combined pass rate for IE (April 2009 and October 2009 Test Dates) 6/7 = 85.7%
   b) Career Planning and Placement Statistics
      i) 6 Month employment rate for Dec. 2009 and May 2010 Graduates 17/20 = 85%
   c) Cooperative Education Positions and Summer internships held by graduating seniors
      i) Percent of Dec. 2009 and May 2010 Graduates with Co-op or internship 15/20 = 75%
   d) Alumni Survey: not administrated in January 2010
5) Industrial Project Sponsor
   a) Hypothesis test shows no concerns
   b) No negative comments
6) Employer assessment of academic preparation
   a) Hypothesis test shows no concerns
   b) No negative comments
7) Student Portfolio
   a) No concerns raised
8) Measure of ABET outcomes in courses
   a) Course materials collected
   b) Rubrics’ not complete in 2009-2010
9) APC Review
   a) Successfully completed in 2007
10) ABET/EAC Review
    a) Successfully completed in 2006
11) College of EMS advisory board & alumni board
    a) No negative comments on the IE program
    b) Other comments of interest to the IE program
       i) Mechanical Engineering Graduates need more management and lean skills
ii) Engineers need skills to work with a diverse population

**Identified Issues from 2009-2010 assessment:**

- Assessment process needs to be streamlined given increased responsibilities of faculty and program coordinator
- Graduates did not take a computer application course
- Lean and management skills not widespread in college
- Student concerns with General Education Requirements

**Implemented changes from 2008-2009 assessment:**

- Rubrics were updated
- Changes made in courses to address products’ effects on environment
- Discussed student advising issues in faculty meeting
- Development of required computer applications course
- Students encouraged to take updated lean course
- Worked with Mechanical Engineering to have IE lean and management classes count as Technical electives for ME students

**Proposed changes for 2010-2011 from 2009-2010 assessment:**

- Rewrite continuous improvement plan
- Implement new computer applications course
- Develop interdisciplinary minors emphasizing engineering management and lean principles