

**DEPARTMENT OF MECHANICAL ENGINEERING, IUPUI
FACULTY FEEDBACK FORM FOR COURSE OUTCOMES SURVEYS**

Note: This form is to be completed and submitted to the department by instructors at the end of each semester based on the survey results of courses taught. It is designed to monitor student learning, keep track of progress and changes made in the program, and allow faculty reflect upon the results. The survey results may be viewed from the department's survey database at <http://www.engr.iupui.edu/me/assessment/fsurveys.shtml>. The completed form is to be emailed to cwooton@iupui.edu (*note: first save the file locally, then email as an attachment*).

Course: ME 569	Year: 2007	Semester: Fall
Instructor: Alan Jones	Survey Average: 4.10 (Out of 5)	Faculty Average: 4.27 (Out of 5)

- List the outcomes that did not meet the Department's current threshold of 3.75 out of 5.0 and explain the reasons. If all or most outcomes in your course are equal to or above 3.75, please reflect upon on the lowest two or three. Please state the outcomes as fully as possible, as in the course outcomes list, with the numbers same as on the list.

14. Analyze structures for stresses and deformation and predict failures. 3.43

The class focused on analyzing stress and deformation from linear elastic constitutive equations. Numerous failure theories were introduced and homework and test questions were based on these failure theories. I believe that by adding real-life case studies to the process may help to reinforce the "predict failures" aspect of this outcome.

15. Select material for specific design application given the loading environment. 3.71

Even though this outcome is low on the list, the topic is covered in the very beginning of the class. An open-ended assignment is given where the students choose an object and select the correct material for its expected operating conditions. I believe this is too open-ended. Next semester, I will choose 3 or four items and ask the students to do the material selection process to get the "right" answer to help demonstrate best practices of material selection.

- Were there any changes made to the course during the semester? If so, explain.

I kept the peer-review process for writing in place, but discussed writing procedures and the aspects of scientific writing at the beginning of the semester rather than waiting for the second paper to introduce these ideas.

- Are there any recommendations for improvement?

The papers turned in were too much like a book report. I plan to re-incorporate more of a research aspect rather than just a literature-search into the project reports to encourage more

technical ability in approaching open-ended projects and writing.

4. Additional reflections/suggestions for assessment?

I am going to try to introduce more journal reading before the first writing assignments are due. This may help the students understand what is a good form for scientific writing, rather than the book-report / lab-report styles usually encountered.

Please email to Courtney Wooton at cwooton@iupui.edu. Thanks.