

**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 hakay@iupui.edu (*note: first save the file locally then email as an attachment*).

Course: ENGR 295	Year: 2006	Semester: Fall
Instructor: Nancy Lamm	Survey Average: 3.57 (Out of 5)	Faculty Average: 4.0 (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.

7. Use MATLAB to solve simultaneous equations, to find root of polynomials, and to solve other equations in one variable (3.17). These are all simple procedures, but two of the three were covered at the end of the semester.

6. Use polynomial curvefitting and interpolation to model data (3.33). These topics were introduced the next to the last week in the semester. Perhaps they should have been covered when plotting was covered so that students would have more time to work with them.

4. Use loops, selection structures, arrays, and input/output commands in MATLAB programs (3.33). When students were asked if they were familiar with loops and selection structures from their prior C programming course they all said yes. However, it is clear that not all of them in fact understand programming. This points to the peril of assuming that students know the pre-requisite material.

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

There were no significant changes in the course when compared to the pilot course taught the previous fall. Assignments were changed and the points allotted to the final exam were decreased.

- Are there any recommendations for improvement?

Spreading a one-credit skill-oriented course over an entire semester seems to create gaps in instruction. Next fall I plan to schedule the class with two meetings per week over first half of the semester. This will give more continuity and have the added workload at the beginning of the semester when students are not as busy. I will try to de-emphasize some of the matrix manipulations that are not as important and spend more time on programming, curve-fitting and other skills that will be more useful.

4. Additional reflections/suggestions for assessment?

Students seem not to value a one-credit class. In any case, when pressed with other concerns, this is the class they allow to slip.

Please email to: hakay@iupui.edu. Thanks.