

ASSESSMENT SUMMARY of “a-k” OUTCOMES

PEOs	Outcome	2001/02 Review	2002/03 Review	2003/04 Review
1,2,3,6,7	a	FE criteria: Performance criteria met or exceeded (PCME) in 6 of 8 areas, falling short in "computers" and "materials science". No action initiated since first year of data review. Senior exit interview criteria: PCME in all 3 areas.	FE criteria: Performance criteria met or exceeded (PCME) in 5 of 8 areas, falling short in "electric circuits", "statics", and "ethics". Improvement above criteria goal noted in "computers" and "materials science". Program faculty decided to actively promote E 490, the FE review course. Graduating senior survey criteria: PCME in all 4 areas. Alumni survey criteria: PCME in 1 of 5 questions. Since this was survey first year, no action initiated.	FE criteria: Improvement noted. Performance criteria met or exceeded (PCME) in all 8 areas. Alumni survey criteria: PCME in 4 of 5 questions. Improvement noted in 3 questions from last year that were below criteria goal. Senior exit interview criteria: PCME in all 3 areas. Project assessment by visitors: PCME for this outcome.
1,2,3,6,7	b	Senior exit interview criteria: missed performance criteria goal slightly-78% actual vs. 80% goal. No action initiated.	Graduating senior survey criteria: PCME in all 7 areas. Alumni survey criteria: PCME in 5 of 6 questions, missing 6th question by 0.63%. No action initiated.	Senior exit interview criteria: PCME. Graduating senior survey criteria: PCME in all 6 areas. Alumni survey criteria: PCME in all 7 areas. Student work review by faculty: PCME in all courses. Project assessment by visitors: PCME for this outcome.
1,2,3,7	c	Senior exit interview criteria: PCME in all 3 areas.	Graduating senior survey criteria: PCME in all 4 areas. Alumni survey criteria: PCME in 2 of 4 areas. Since this was survey first year, no action initiated.	Graduating senior survey criteria: PCME in all 3 areas. Alumni survey criteria: PCME in all 3 questions. Senior exit interview criteria: PCME in all 3 areas. Student work review by faculty: PCME in all courses. Project assessment by visitors: PCME for this outcome.
2,3,4	d	Senior exit interview criteria: PCME in all 4 areas.	Graduating senior survey criteria: PCME in all 5 areas. Alumni survey criteria: PCME in all 4 questions.	Senior exit interview criteria: PCME in all 4 areas. Graduating senior survey criteria: PCME in all 4 areas. Alumni survey criteria: PCME in all 3 questions. Student work review by faculty: PCME in all courses. Project assessment by visitors: PCME in all areas. Student self-assessment of team experiences review by faculty: PCME in all areas.

PEOs	Outcome	2001/02 Review	2002/03 Review	2003/04 Review
1,2,3,4,6,7	e	Senior exit interview criteria: PCME in all 3 areas. FE criteria: PCME in 8 (of 20) subjects-goal of 15. Special interest in student performance on "queuing theory". No action initiated since first year of data review.	Graduating senior survey criteria: PCME in all 3 areas. Alumni survey criteria: PCME in 6 of 7 areas. No action initiated since this was survey first year. FE criteria: PCME in 13 subjects. Program faculty supported the action for assistant head to initiate review sessions on IE subjects. "Queuing theory" performance still low--course review was conducted, topic sequence modified. Further, IE 401 identified as prerequisite for IE 453 and curriculum modified.	Senior exit interview criteria: PCME in all 3 areas. Graduating senior survey criteria: PCME in 2 of 3 areas, missing the 3rd by less than 2%. Alumni survey criteria: PCME in 7 of 8 areas--IE student performance remained stable, COE performance experienced large increase. No action initiated--want to review next year. FE criteria: PCME in 13 subjects, missing a 14th (material handling systems) by 0.3%. Program faculty to review exam questions on "production planning" and "total quality" (2 areas our students have never met criteria goal), and review sessions will be continued. Performance on "queuing theory" significantly improved to 124% of goal. Student work review by faculty: PCME in all courses. Project assessment by visitors: performance criteria satisfactory for this outcome.
1,3,4,5,7	f	Senior exit interview criteria: PCME in all 4 areas. Faculty perception survey indicated that only 6 IE courses had "ethics" material--program faculty agreed to increase where appropriate. FE "ethics" criteria: last 4 exams were analyzed--PCME. FE participation criteria: % of IE students taking FE exam was at 26% (up from 21% the previous year). Program faculty initiated several actions--more discussion of registration in our classes, special efforts to promote registration (and the E 490 review course) in IE 498.	Graduating senior survey criteria: PCME in both areas. Alumni survey criteria: PCME in all 3 questions. FE "ethics" criteria: while PCME in terms of our students' performance, program faculty recommended and approved that effective fall 2003, all IE students would be required to take "ethics" based course as Science, Technology & Society elective. FE participation criteria: % of IE students taking the FE exam increased from 26% to 35%. Program faculty decided on a 50% participation goal.	Senior exit interview criteria: PCME in all 4 areas. Graduating senior survey criteria: PCME in both areas. Alumni survey criteria: PCME in 2 of 4 questions, missing the other 2 questions by very small amounts. FE "ethics" criteria: PCME. FE participation criteria: increased from 35% to 40%. Also, improvement in passing rate noted--during the past 6 administrations of the exam, NCSU students had a 78.6% pass rate, with the national average at 69.1%. More of our students are taking the test and their performance has increased as well. Project assessment by visitors: PCME for this outcome.

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2,3,4,5,6,7	g	Senior exit interview criteria: PCME in 1 of 3 areas, with a 2nd area very close to criteria goal. No action initiated since first year of data review.	Graduating senior survey criteria: PCME in all 6 areas. Alumni survey criteria: PCME in 5 of 8 questions. No action initiated.	Senior exit interview criteria: PCME in all 3 areas. Graduating senior survey criteria: PCME in 3 of 6 areas. Program faculty initiated action to require additional writing assignments in IE 216, IE 352 and IE 498 ("ethics" related assignment with presentation required). Alumni survey criteria: PCME in 3 of 8 questions, missing goal slightly in 2 other questions. Faculty perception survey indicated increased satisfaction among the faculty relative to students' communication skills. Student work review by faculty: PCME in all courses. Project assessment by visitors: performance criteria satisfactory for this outcome. Final project presentations for all teams to now include required trial presentation.
2,5	h	ADA review criteria: PCME. Senior exit interview criteria: IE response to two questions at 74% and 71%, short of 80% goal. No action initiated.	ADA review criteria: PCME. Graduating senior survey criteria: PCME in all 6 areas. Alumni survey criteria: PCME in all 3 questions.	ADA review criteria: PCME. Senior exit interview criteria: IE performance improved to 74% for each question, but still short of 80% goal. Graduating senior survey criteria: PCME in 5 of 6 areas, missing the 6th area by 0.3%. Alumni survey criteria: PCME in all 4 questions. Faculty perception survey indicated increased satisfaction among the faculty relative to a broad education of global and societal issues. Project assessment by visitors: PCME for this outcome.

PEOs	Outcome	2001/02 Review	2002/03 Review	2003/04 Review
3,5,6	i	Professional society membership criteria: PCME. FE participation criteria: % of IE students taking FE exam was at 26% (up from 21% the previous year). Program faculty initiated several actions--more discussion of registration in our classes, special efforts to promote registration (and the E 490 review course) in IE 498.	Graduating senior survey criteria: PCME in both questions. Alumni survey criteria: PCME in 3 of 6 questions. Faculty noted the randomness of the data for remaining 3 questions, and no action was initiated. FE participation criteria: % of IE students taking the FE exam increased from 26% to 35%. Program faculty decided on a 50% participation goal.	Professional society membership criteria: PCME. Graduating senior survey criteria: PCME in both questions. Alumni survey criteria: Faculty discussion about the appropriateness of this survey--will review for last time in 2004/05. FE participation criteria: increased from 35% to 40%. Also, improvement in passing rate noted--during the past 6 administrations of the exam, NCSU students had a 78.6% pass rate, with the national average at 69.1%. More of our students are taking the test and their performance has increased as well. Faculty perception survey on lifelong learning indicated increased satisfaction of the faculty with our students' recognition of lifelong learning and professional development.
5,6	j	ADA review criteria: PCME. Senior exit interview criteria: PCME in both questions.	ADA review criteria: PCME. Graduating senior survey criteria: PCME in both areas. Alumni survey criteria: PCME in all 3 questions.	ADA review criteria: PCME. Senior exit interview criteria: PCME in both questions. Graduating senior survey criteria: PCME in both areas. Alumni survey criteria: PCME in 4 of 5 questions, missing the 5th question by a small amount. Faculty perception survey on contemporary issues indicated increased satisfaction of the faculty with our students' understanding of these issues.

PEOs	Outcome	2001/02 Review	2002/03 Review	2003/04 Review
1,2,3,4,6,7	k	<p>FE "computers" criteria: IE student performance had improved from 86% (previous year) to 96% of the national average, still 4% below the goal. Action initiated by program faculty was to increase emphasis on E 490, the FE review course. Senior exit interview criteria: PCME in all 3 areas; however, program faculty decided to add undergraduate student to department computer committee, to insure student input. Program faculty also decided to change programming language requirement for all IE undergraduates from C++ to Java, effective fall 2002.</p>	<p>FE "computers" criteria: PCME as IE students improved to 104.1% of the IE national average. Graduating senior survey criteria: PCME in all 5 areas. Alumni survey criteria: PCME in 6 of 7 areas. No action initiated.</p>	<p>FE "computers" criteria: PCME, as IE students continued to improve-117.2% of the national average for IE students. Graduating senior survey criteria: PCME in all 3 areas. Alumni survey criteria: PCME in 7 of 8 questions (one question added to last years' survey). Senior exit interview criteria: PCME in all 3 areas. Student work review by faculty: PCME in all courses. Project assessment by visitors: PCME for this outcome.</p>