**Program Assessment Plan, 2011-2015**

**Department/Program: ECE Dept, Electrical Engineering and Computer Engineering Programs**

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| **Time Period** | **Assessment Activity**  (Outcome Assessment, Outcomes Review, Alumni Survey, Assessment Analysis, etc.) | **Responsible Individual or Organization**  (Specify who is responsible to see that this activity is carried out.) | **Specific Relevant Planning Information**  (For Outcome Assessment indicate information such as where the evidence will be gathered, type of student work to be used, whether this is a direct or indirect assessment, what results would indicate success, etc. as appropriate and known at the time the plan is created. For other assessment tasks, indicate how they will be carried out.) | **Status**  (as of 5/11) |
| Sp & Fall ’11 | **Implementation Phase**: Implementing Changes approved by the department during the previous Major Evaluation Phase, Fall ‘10 | Profs: Katz & Hashimoto  Profs: Osorno & van Alphen  Profs: Hash & van Alphen  Prof: Mallard  Profs: Amini & van Alphen  Profs: Geng & van Alphen  Chair:  Prof: van Alphen  Profs: Amini & Roosta  Program Improvement Comm.  Profs: Amini & Radmanesh  Digital Curr. Committee | Working on a way to assess teamwork  Working on standards assignment, ECE 410/ECE 411  Working on plagiarism lesson for Sr. Design  Working on targeted assignment for outcome h  Plan to formalize WRAD-like program inside of ECE Dept.  Working on targeted assignment for outcome g (oral comm..)  Increase lab coverage/availability  Replace MATH 280 with ECE equivalent, making course less abstract  Improve lab equipment & computers  Purchase/install smart boards & misc. teaching equipment  Make ME 309 more relevant to EE  Develop targeted assignments for Outcome 2b  Develop soldering workshop, PCB Layout workshop  Have one course participate in departmental writing program  Develop plan for reducing amount of assessment data collected  Objectives Revision  Submit Ethics course proposal for EPC Approval  Eliminate curriculum overlaps in CompE Program | Partially completed  Partially completed  Complete – used in Sp’11  Partially completed  Temporary plan in place  Not started  Done  Done  Done  Purchased, not yet installed  Replacement course  approved, not yet offered  Not started  Not started  Tried in Sp’11  Partially completed  Approved by Department  Not started  Jointly Working with Comp.  Sci. Department |

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| **Time Period** | **Assessment Activity** | **Responsible Person/Org.** | **Specific Planning Information** | **Status** |
| Sp & Fall ‘12 | **Major Assessment Phase** (data collection for the next Improvement Cycle) | Dept. Chair, Assessment Coordinator, Program Improvement Committee, and all faculty | * Pre-requisite tests to be administered; * Program assessment tables to be completed, documenting student attainment of **all outcomes in all courses** as evidenced by embedded test questions and projects; * The data to be collected will be determined by the data reduction task as decided by the Program Improvement Committee in Fall ‘11 * All the major surveys (EBI, Senior Interview/Survey, Alumni Survey, and Employer Survey) will be administered. |  |
| Sp ‘13 | **Major Evaluation Phase**: During this semester, the results of the above activities (obtained in 2012) and the feedback from the regular Industrial Advisory Board meeting are integrated and evaluated, to yield a plan (see Task 5) for program improvement. | Program Improvement Committee  ECE Curriculum Committees  ECE Department Faculty (All) | Task 1. Evaluate the assessment results, and prepare a memo/report summarizing the results and (potentially) recommending program improvements, including curriculum change.  Task 2. Present the report to the ECE faculty and the Industrial Advisory Board, soliciting input  Task 3. Revise plan, possible incorporating suggestions obtained in Task 2. Then direct any recommendations to appropriate curriculum committees.  Task 4. ECE curriculum committees, with the assistance of course coordinators, prepare a specific proposal addressing the recommended changes, with a plan and schedule for implementation.  Task 5. Proposals from Task 4 are presented at an ECE Department meeting, and final decisions are made with regard to curriculum, program objectives, and the assessment process. |  |
| Fall ’13, Sp’14, & Fall ‘14 | **Implementation Phase**: Implementing changes approved by the department during the previous Major Evaluation Phase (Sp ’13) | TBD, based on results of the previous Major Evaluation Phase (Sp ’13) | Specific plans for program improvement will depend on the results of the previous Major Evaluation Phase (Sp ’13). |  |
| Sp & Fall ‘15 | **Major Assessment Phase** (data collection for the next Improvement Cycle) | Dept. Chair, Assessment Coordinator, Program Improvement Committee, and all faculty | * Pre-requisite tests to be administered; * Program assessment tables to be completed, documenting student attainment of **all outcomes in all courses** as evidenced by embedded test questions and projects; * The data to be collected will be determined by the data reduction task as decided by the Program Improvement Committee in Fall ‘11 * All the major surveys (EBI, Senior Interview/Survey, Alumni Survey, and Employer Survey) will be administered. |  |

**Curriculum Alignment**: Our (2) programs each have 14 learning outcomes, which are presented at various levels in a variety of courses, and assessed in numerous courses. (See our ABET report for the detailed curriculum map.)

Part of our Program Improvement Plan (see Fall ’11 Implementation) calls for us to reduce the amount of data collected, and the courses in which the data are collected for the various outcomes. We currently assess all outcomes in all courses, once every three years. (See over-all plan below.) We have started the data reduction task, but it is not yet complete. The result will be that each of the 14 outcomes will be assessed in at least three courses, once every three years, rather than in all courses.

Long-term

Plan:

Major Assessment

Major Evaluation

Implementation

*Phase*

*Activity*

*2006*

*2007*

*2008*

*2009*

*2010*

*2011*

*Spring*

*Spring*

*Spring*

*Spring*

*Spring*

*Spring*

*Fall*

*Fall*

*Fall*

*Fall*

*Fall*

*Fall*

Major Assessment

Major Evaluation

Implementation

*Phase*

*Activity*

*2012*

*2013*

*2014*

*2015*

*2016*

*2017*

*Spring*

*Spring*

*Spring*

*Spring*

*Spring*

*Spring*

*Fall*

*Fall*

*Fall*

*Fall*

*Fall*

*Fall*