**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 & HashimotoProfs: Osorno & van AlphenProfs: Hash & van AlphenProf: MallardProfs: Amini & van AlphenProfs: Geng & van AlphenChair: Prof: van AlphenProfs: Amini & RoostaProgram Improvement Comm.Profs: Amini & RadmaneshDigital Curr. Committee | Working on a way to assess teamworkWorking on standards assignment, ECE 410/ECE 411Working on plagiarism lesson for Sr. DesignWorking on targeted assignment for outcome hPlan to formalize WRAD-like program inside of ECE Dept.Working on targeted assignment for outcome g (oral comm..) Increase lab coverage/availabilityReplace MATH 280 with ECE equivalent, making course less abstractImprove lab equipment & computersPurchase/install smart boards & misc. teaching equipmentMake ME 309 more relevant to EEDevelop targeted assignments for Outcome 2bDevelop soldering workshop, PCB Layout workshopHave one course participate in departmental writing programDevelop plan for reducing amount of assessment data collectedObjectives RevisionSubmit Ethics course proposal for EPC ApprovalEliminate curriculum overlaps in CompE Program | Partially completedPartially completedComplete – used in Sp’11Partially completedTemporary plan in placeNot startedDoneDoneDonePurchased, not yet installedReplacement course  approved, not yet offeredNot startedNot startedTried in Sp’11Partially completedApproved by DepartmentNot startedJointly 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.
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| 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 CommitteeECE Curriculum CommitteesECE 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 inputTask 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.
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**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*