**Program Assessment Plan, 2013-2019 Submitted 7/21/14**

**Department/Program: 2013 - 2019**

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| **Time Period** (Academic Year, Semester, etc.) | **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.) | **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**  (Use this column to indicate the status of the activity during Assessment Plan review. E.g., Completed, Postponed, In-Progress, Deleted, etc.) |
| 2013 - 2014 | Develop a new assessment methodology and 5 year assessment plan, based on ABET program review in Fall 2013  Senior Exit Survey | Department Assessment Coordinator (Diane Schwartz) | A 5-year assessment plan has been created and has been approved by the department. Pilot assessments based on that plan were carried out in Spring 2014. | Completed |
| 2014 - 2015 | Assess SLOs a,b,c,d,e  Senior Exit Survey | Department Assessment Coordinator | Student Learning Outcomes a-e will be assessed in several major courses at both the lower and upper division level. A 5 – year Assessment Schedule is attached. The assessment will be done using student work. All assessments will be direct assessments. | TBD |
| 2015 – 2016 | Assess SLOs f,g,h,I,j,k  Evaluate assessments done in 2014-2015.  Senior Exit Survey | Department Assessment Coordinator | Student Learning Outcomes f - k will be assessed in several major courses at both the lower and upper division level. A 5 – year Assessment Schedule is attached. The assessment will be done using student work. All assessments will be direct assessments. | TBD |
| 2016- -2017 | Assess SLOs a – e  Evaluate assessments done in 2015- 2016  Senior Exit Survey | Department Assessment Coordinator | Student Learning Outcomes a-e will be assessed in several major courses at both the lower and upper division level. A 5 – year Assessment Schedule is attached. The assessment will be done using student work. All assessments will be direct assessments. | TBD |
| 2017 -2018 | Assess SLOs f - k  Evaluate assessments done in 2016 – 2017  Senior Exit Survey | Department Assessment Coordinator | Student Learning Outcomes f - k will be assessed in several major courses at both the lower and upper division level. A 5 – year Assessment Schedule is attached. The assessment will be done using student work. All assessments will be direct assessments. | TBD |
| 2018 - 2019 | Evaluate Assessments done in 2017-2018  Senior Exit Survey  Alumni Survey  Write ABET Report | Department Assessment Coordinator |  | TBD |

**Curriculum Alignment: Resources for Assessment**

In which courses or activities is relevant information covered?

Which courses or activities provide student learning opportunities for the program learning outcome?

(For each course indicate at which level the outcome is covered -- Introduced, Developed and Mastery.)

**Because the ABET required student learning outcomes are very broad, most of the computer science major courses provide at least some activities relating to each student learning outcomes. This chart shows the courses where we will assess each student learning outcome. It doesn’t mean that the learning outcomes are not covered in other courses. We introduce most of the learning outcomes in the freshman courses, and develop them in later courses.**

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| Program Courses | SLO a | SLO b | SLO c | SLO d | SLO e | SLO f |
| COMP 122/L | I | I |  | I |  |  |
| COMP 182/L | I |  | I |  | I | I |
| COMP 222 | D | D |  |  |  |  |
| COMP 256/L | D |  |  | I |  | D |
| COMP 282 |  |  | D |  |  |  |
| COMP 310 | D | D | D |  |  |  |
| COMP 322/L |  | D | D |  |  |  |
| COMP 333 | D |  | D |  |  |  |
| COMP 380/L |  | D |  | D |  | D |
| COMP 490/L | D |  | D |  | D | D |
| COMP 491 |  | D |  | D |  | D |

(continued table)

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| --- | --- | --- | --- | --- | --- |
| Program Courses | SLO g | SLO h | SLO i | SLO j | SLO k |
| COMP 122/L |  | I |  |  |  |
| COMP 182/L |  |  |  |  | I |
| COMP 222 |  |  | D | D |  |
| COMP 256/L |  |  |  |  |  |
| COMP 282 | D |  | D |  | D |
| COMP 310 |  |  |  |  |  |
| COMP 322/L |  |  | D |  | D |
| COMP 333 |  | D | D |  |  |
| COMP 380/L | D |  | D |  | D |
| COMP 490/L | D | D |  |  |  |
| COMP 491 |  |  | D | D | D |

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| **Computer Science Program Student Learning Outcomes** |
| 1. Apply knowledge of computing and mathematics appropriate to the discipline.   a.1 Computing appropriate to the discipline  a.2 Mathematics appropriate to the discipline |
| 1. Analyze a problem, and specify the computing requirements appropriate to meet desired need. |
| 1. Apply knowledge of programming concepts, algorithmic principles, and data abstraction to design, implement, and evaluate the software necessary to solve a specified problem. |
| 1. Function effectively on teams to accomplish a common goal. |
| 1. Understand professional, ethical, legal, security, and social issues and responsibilities. |
| 1. Communicate effectively with a range of audiences   f.1 Written Communication  f.2 Oral Communication. |
| 1. Analyze the local and global impact of computing on individuals, organizations, and society. |
| 1. Recognize the need for and demonstrate an ability to engage in continuing professional development. |
| 1. Use current techniques, skills, and software development tools necessary for programming practice. |
| 1. Model and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices. |
| 1. Apply software engineering principles and practices in the construction of complex software systems |