College of Science (CSCI)
North Science 135

We created PLOs and SLOs for the Master in Computer Networks in the academic year 2012-2013. The Math and Computer Science Department in which this degree is housed made the decision to use Blackboard as a means to provide students with an assessment exam that addresses the SLOs of each course (which are mapped to PLOs for each program and the ILOs of the university). We have these in place for seven courses in the M.S. Computer Networks program at this time (an increase of four from last year). The results of these exams are being stored in a separate Blackboard shell repository for the Department. Evaluating the results of these exams is challenging, as each assessment contains questions for multiple PLOs. We are currently looking at averages over the entire exam, which is suboptimal. To evaluate by PLO, hand calculations are needed. For the Capstone project, we went to a rubric for evaluating written projects. We are planning an alternative means for evaluation when we move to semesters.

We are considering other options such as creating individual assessments for each PLO, thus allowing automatic calculation through Blackboard. Another challenge is addressing PLOs for both the Computer Science Master degree and the Computer Network Master degree in courses that serve both programs. We are evaluating merging the two separate programs into one degree with two options for semester conversion. In addition, we are looking at alternative ways to assess PLOs that do not depend solely on Blackboard. We will be looking at methods suggested by ABET, as we may be looking for ABET accreditation of our undergraduate Computer Science program.

In evaluating our PLOs and SLOs and their correspondence to the ILOs, we note that diversity, social responsibility, and sustainability are not adequately addressed in our curriculum. We will be sure to include these areas in our new classes that are tailored towards the semester calendar ó specifically in the required courses CS 6591 Network Design and CS 6899 Capstone.

For PLO #2 this year, the assessment score for CS 6591 was well beyond the acceptable score of 70%, indicating that at this juncture we are adequately addressing this outcome in our curriculum.

D. Summary of Assessment Results

CS 6525	average 78%
CS 6526	average 80%
CS 6560	average 69%
CS 6591	average 82%
CS 6596	average 77%

CS 6715   average 80%
CS 6899   average 82%

Two student projects from CS 6899 were chosen to be published in the Proceedings of the 2015
Kpvgtpcvkqpcn"Eqphgtgpeg"qp"Ugewtkv{"("Ocpcigogpv"UCO∅370

E. Suggestions and Recommendations for the CSCI EETF in the Future

NONE