



2015-2016 CSCI EETF Assessment Year End Report, June, 2016

Program Name(s)	EETF Faculty Rep	Department Chair
B.S. Computer Science	Matt Johnson	Matt Johnson

[NOTE: Items A, B, C, and D are identical to your Page 2 on your Annual Report for CAPR. Please simply cut and paste from there. Item E is unique to the CSCI EETF.]

A. Program Student Learning Outcomes

<p>Students graduating with a Bachelor of Science in Computer Science will be able to:</p> <ol style="list-style-type: none"> 1. apply knowledge of mathematics and computational theory to appropriate problems in computer science 2. analyze a problem, and identify and define the resources and requirements needed for its solution 3. design and implement a program to meet stated needs 4. develop and maintain computer-based systems, processes, and platforms 5. recognize and distinguish the mechanisms, components and architecture of computing systems 6. employ current techniques, skills, and tools necessary for computing practice 7. identify professional, ethical, legal, and security issues and responsibilities and the impact of computing on individuals, organizations, and society 8. perform successfully on teams to accomplish a common goal, and communicate effectively in written and oral form

B. Program Student Learning Outcome(s) Assessed

<p>As according to our assessment plan, we are closing the loop on PLO #3 this year. We also include assessment results for additional PLOs as listed below:</p> <p>CS 2370 Programming in C++ III, Introducing PLO's 2,3,6 CS 3240 Data Structures, Developing PLOs 2,3,6 CS 3340 Object Oriented Programming, Developing PLOs 2,3,6 CS 4525 Network Security, Mastering PLOs 5,7,8 CS 4560 Operating Systems, Mastering 3, 4,5 CS 4596 Wireless Networks, Mastering 1,4,6</p>
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C. Summary of Assessment Process

We created SLOs and PLOs for the Computer Science program in the academic year 2012-2013. The decision was made to use Blackboard as a means to provide students with an assessment exam that addresses the SLOs of each course which are aligned to the PLOs for each program and the ILOs of the university. We have these in place for approximately eight courses in the B.S. Computer Science program at this time. 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. Additionally, each instructor creates the assessments in different ways – some combining PLOs in one question and some keeping them separate. We are currently looking at averages over the entire exam. As we move to semesters, our undergraduate committee will create assessments for each class. These will address one PLO only thus simplifying the evaluation of data. Currently another challenge is addressing PLOs for courses that serve both the graduate and undergraduate degree programs. Under semesters this will not be an issue as graduate students will not be able to take undergraduate courses.

For changes made to close the loop for PLOs, adjustments are in an ad hoc manner. Instructors rotate for each class and may not be aware of the previous instructor’s assessment results. For PLO #3 this year, assessment scores were an agreeable score of 82%, indicating that at this juncture we are adequately addressing this outcome in our curriculum.

D. Summary of Assessment Results

2015-16 Assessment Results	1	2	3	4	5	6	7	8
CS2370 Programming III	1.0		9.4					
CS 3240 Data Structures			6.7					
CS 3340 Introduction to OOP and Design			7.6					
CS 4525 Network Security						7.8	7.8	7.8
CS 4560 Operating Systems	8.7		9.1		10			
CS 4596 wireless Networks	6.8			5.7		7.1		

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

NONE