



College of Science (CSCI)  
 North Science 135  
 25800 Carlos Bee Boulevard, Hayward CA 94542

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


[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**

Students graduating with an M.S. in Computer Networks from CSU East Bay will be able to:

1. Exhibit mastery of advanced computer science theory as applied to the field of computer networks
2. Employ current techniques, skills, tools, and coding practices necessary for application and system development
3. Apply critical thinking and problem solving skills by analyzing problems, designing solutions, and evaluating results
4. Demonstrate communication skills in both written and oral form, and work in a team environment
5. Independently acquire new computer related skills through analysis of current computer science literature and industrial practices

### **C. Summary of Assessment Process**

We created PLOs and SLOs for the Master in Computer Networks in the academic year 2012-2013. The 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.

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 are using a rubric for evaluating written projects.

As we move to semesters, we again use Blackboard, but we will assess one PLO only in each course which will simplify evaluating results. 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 include these areas in our new classes that are tailored towards the semester calendar.

We evaluated PLO #3 in the follow(1) (nda) 0.21(L) 0.2 (Ov(n t) 0.nda) 0.2 0 Tm T.2 (O) -0 0.24(t) (

successful in delivering the needed material. Programming assignments are also modified or enhanced as required. This sort of fine tuning may provide for even better student success.

#### CS 6596 Wireless and Mobile Architecture

This course covers wireless network architectures including cellular, WLAN, and satellite systems. Signal propagation models and reception te

AlgorithmsLevent Ertaul Manpreet Kaur, Venkata Arun Kumar R Gudise

**Proceedings of the 2015 International Conference on Security & Management**

- Performance Comparison of AES-CCM and AES-GCM Authentication Modes  
Levent Ertaul, Anup Mudan, Nausheen Sarfaraz
- EasyAuth – Implementation of a Multi-Factor Authentication Using Fingerprint and One Time Passwords (OTP)  
Levent Ertaul, Ishita Thanki

**D. Summary of Assessment Results**