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

2014-2015 CSCI EETF Assessment Year End Report, June, 2015

Program Name(s)	EETF Faculty Rep	Department Chair
Statistics MS	Lynn Eudey	Eric Suess/Mitch Watnik

[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
Student learning outcomes for MS in Statistics are:
1. Apply statistical methodologies, including a) descriptive statistics and graphical displays, b) probability models for uncertainty, stochastic processes, and distribution theory, c) hypothesis

Examination by mapping all but one of the SLO's for each of the MS programs to specific course problems on the MS exam. The comprehensive examination has a common (to both programs) 4-hour closed book examination and, two days later, program-specific 4-hour open book examinations. Questions on the examinations are identified with the required graduate courses. Rubrics were established for the outcomes and implemented.

The SLO that was not evaluated by the Comprehensive Examination involve communication skills (SLO #5 for Statistics MS). It was decided that this SLO is better addressed by term projects that involve communication (either a written project or presentation that is worth considerable weight in the grading scheme of the course). For the Statistics MS SLO #5, STAT 6509 "Theory and Application of Regression" will be used for assessment. This year the course was formally selected and the rubric developed but not yet implemented.

All implementations of academic assessment take place after the last faculty meeting of the academic year, hence faculty review and any changes to the curriculum will be done in the future. We anticipate that any changes we decide upon will be implemented in the semester conversion process as we transform the programs.

D. Summary of Assessment Results

Our comprehensive examination is our primary method of assessing both master's degree programs. The tests are written to test knowledge from the required core courses for each program. Typically our pass rate is 75% or higher. Combined over the past few years, the average pass rate for Statistics MS is 80% (SD = 18%). For Spring 2015 the pass rate for Statistics is 73.2%. Most of the students take the comprehensive examination in the Spring (Spring 2015 n = 41 for Statistics).

This year we initiated the use of a rubric to assess the individual ILO's as described above. Rubrics used were on a 5-point scale with 5 denoting exemplary demonstration of the SLO involved and 1 denoting no or very poor demonstration of the SLO involved. The results for Statistics MS program are shown in Table 1 on the next page.

Discussion and tables continued on the next page.

Table 1: Frequencies of Rubric Scores for Statistics MS 2015

	SLO 1	SLO 2