Department of Mathematics, CSCI

ASSESSMENT PLAN: M.S. in Computer Science

Updated Date: Winter 2015 by Matt Johnson

PROGRAM MISSION

CSUEB Missions, Commitments, and ILOs, 2012

CSUEB Computer Science Program Mission Statement

The mission of the Computer Science Department at California State University East Bay is to provide instruction and to model practices that encourage all students to become intelligent creators and useede(i2(ea)Bp.3com)&puter sea)Bp.8ware and applications, to think analytically and independently, and to stay current with technology by becoming lifelong learners.

The mission of the University is to provide an academically rich, multicultural learning experience that prepares all its students to realize their goals, pursue meaningful lifework, and to be socially responsible contributors to their communities, both locally and globally.

The department supports these goals by providing essential knowledge in computer science to both majors and non-majors. It does this by providing (1) industry-specific skills taught by faculty who are current with emerging technology, (2) quantitative and analytical reasoning skills taught in all classes, and (2) rich offerings in a wide variety of areas in computer science. The department fosters academic growth for both its faculty and its students to maintain as high of a level of learning experience as is possible.

PROGRAM STUDENT LEARNING OUTCOMES (SLOs)

Students graduating with a M.S. in Computer Science will be able to:

SLO 1

Apply advanced computer science theory to computational problems

ILO 1, 2, 6	problems
SLO 2	Demonstrate advanced understanding of the mechanisms,
ILO 1, 6	components and architecture of current computing systems
SLO 3	
	Apply emerging technologies and advanced algorithmic design
ILO 1, 6	
SLO 4	
	Critique, plan and produce complex software applications
ILO 1, 4, 6	

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SLO 5

Research and analyze current computer science literature

ILO 1, 2, 5, 6

Year 1: 2013-2014

1. Which SLO(s) to assess

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6. Ways of reporting (how, to who)	An assessment report will be generated by the Computer Science Graduate Coordinator, and then delivered to the Computer Science Graduate Program Committee during the spring quarter. Each course aligned with this SLO will be assigned a numeric score between 0 and 10, representing the average student score on the course's post-assessment examinations during the previous academic year.
7. Ways of closing the loop	The Computer Science Graduate Program Committee will meet in spring quarter to analyze and discuss the assessment report for this PLO. If the score for a given course is below the 7 threshold, the committee will recommend what actions needs be taken. Such actions include (but are not limited to): modification of the assessment examination if the questions seem inappropriate; revision of teaching practices to support student achievement; and refinement of the course learning outcomes that are aligned with the given programmatic SLO. The Committee will then send an action report to the Department Chair for approval.
Year 3: 2015-2016	
1. Which SLO(s) to assess	SLO 3
2. Assessment indicators	Multiple choice post-assessment exams, independent of coursework
3. Sample (courses/# of students)	CS 6140 Language Design CS 6575 Parallel Programming CS 6820 Machine Learning CS 6825 Computer Vision CS 6835 Statistical Pattern Recognition All graduate courses have a course capacity of 25.
4. Time (which quarter(s))	Post-assessment exams will be administered during each academic quarter
5. Responsible person(s)	CS Graduate Coordinator (currently Dr. David Yang)
6. Ways of reporting (how, to who)	An assessment report will be generated by the Computer Science Graduate Coordinator, and then delivered to the Computer Science Graduate Program Committee during the spring quarter. Each course aligned with this SLO will be assigned a numeric score between 0 and 10, representing the average student score on the course's post-assessment examinations during the previous academic year.
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1. Which SLO(s) to assess	SLO 4
2.Assessment indicators	Multiple choice post-assessment exams, independent of coursework
3. Sample (courses/# of students)	CS 6310 Advanced Software Engineering CS 6320 Software Engineering and Web-Based Systems CS 6522 Advanced WWW Software Development CS 6870 Computer Simulation All graduate courses have a course capacity of 25.
4. Time (which quarter(s))	Post-assessment exams will be administered during each academic quarter
5.Responsible person(s)	CS Graduate Coordinator (currently Dr. David Yang)
6. Ways of reporting (how, to who)	An assessment report will be generated by the Computer Science Graduate Coordinator, and then delivered to the

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