ASSESSMENT PLAN: B.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 California State University East Bay is to provide instruction and to more actices that encourage all students to become intelligent creators and users of computer software and applications, to think analytically and independently, and tayscurrent with technology by becoming lifelong learners.

The mission of the University is to probe an academically rich, multicultural learning experience that prepares albits dents 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 **pirog**iessential knowledge in computer science to both majors and non-majorsdoles this by providing (1) industry-specific skills taught by faculty whare current with emergintechnology, (2)quantitative and analytical reasoning kills taught in all classes, an(2) rich offerings in a wide variety of areas in computer sciencee Tarepartment fosters academic growth for both its faculty and its studento maintain as high af level of learning experience as is possible.

PROGRAM STUDENT LEARNING OUTCOMES (SLOs)

Students graduating with a B.S. in Computer Science will be able to:		
SLO 1	Apply knowledge of mathematics and computational theory to	
ILO 1, 6	appropriate problems in computer science	
SLO 2	Analyze a problem, and identify and define the resources and	
ILO 1, 2, 6	requirements needed for its solution	
SLO 3	Design and implement a program to meet stated needs	
ILO 1, 2, 6		
SLO 4	Develop and maintain computer-based systems, processes, and	
ILO 1, 6	platforms	

PROGRAM MISSION

SLO 5

ILO 1, 6

Recognize and distinguish the mechanisms, components and architecture of computing systems

Year 2: 2014-2015	
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 1160 Introduction to Computer Science I CS 3860 Computer Music Programming CS 4110 Compiler Design CS 4311 Software Engineering II CS 4848 Computer Animation Programming All undergraduate courses have a course capacity of 35.
4.Time (which quarter(s))	Post-assessment exams will be administered during each academic quarter
5.Responsible person(s)	Undergraduate Coordinator (currently Dr. Matt Johnson)
6. Ways of reporting (how, to who)	An assessment report will be generated by the Undergraduate Coordinator, and then delivered to the Computer Science Undergraduate 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 Undergraduate 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 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	SLOs 4 and 5
2. Assessment indicators	Multiple choice post-assessment exams, independent of coursework
3. Sample (courses/# of students)	CS 2430 Computer Organization and Assembly Language CS 3520 Web Site Development CS 4560 Operating Systems CS 4590 Computer Networks CS 4660 Database Architecture All undergraduate courses have a course capacity of 35.
4. Time (which quarter(s))	Post-assessment exams will be administered during each academic quarter
5. Responsible person(s)	Undergraduate Coordinator (currently Dr. Matt Johnson)
6. Ways of reporting (how, to who)	An assessment report will be generated by the Undergraduate Coordinator, and then delivered to the Computer Science Undergraduate Program Committee during the spring quarter. Each course aligned with these SLOs 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 Undergraduate 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 SLOs. The Committee will then send an action report to the Department Chair for approval.
Year 4: 2016-2017	

1.Which SLO(s) to assess

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Responsible person(s)	Undergraduate Coordinator (currently Dr. Matt Johnson)
6. Ways of reporting (how, to who)	An assessment report will be generated by the Undergraduate Coordinator, and then delivered to the Computer Science Undergraduate Program Committee during the spring quarter. Each course aligned with these SLOs 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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