

Computer and Information Sciences (CIS)

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BYUH Assessment Plan 2008-2009

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University Mission Statement/Goals

Obtain in-depth knowledge in a major leading to job competence and/or graduate school (Educational Commitments-Item #2 bullet # 2); develop and use the ability to think clearly, learn independently, and solve problems effectively (Item #2 bullet #3); develop a strong work ethic and high work standard (Item #4 bullet #1).

Unit Mission Statement

The CIS Department prepares our students for successful service in computer-related technical fields with special emphasis on meeting the emerging, collaborative, and internationally diverse needs in the areas of computer science, information systems, and information technology.

Outcomes	Means of Assessment	Findings	Actions
1. Students will have an ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.	1.1 100% of the students that pass CS415 will demonstrate that they can find the appropriate API and documentation to complete projects that require the use of previously unknown libraries.	100% of the students passed this objective.	Continue current pedagogy.
	1.2 80% of the students that pass CS415 will be able to apply the API and documentation in order to develop a solution to a problem presented.	100% of the students passed this objective.	
2. Students will have an ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.	2.1 100% of the students in our IT 420 class will successfully install and configure a RedHat Linux operating system.	All of our IT 420 class students have successfully installed the RedHat Linux Operating System within the given specifications.	Keep doing what we are doing. Encourage students to make Linux part of their future life.
3. Students will develop an ability to function effectively on teams to accomplish a common goal.	3.1 70% of CIS 100 students will achieve an 80% or higher rating from their group peers on the end of semester group evaluations.	There were 88 students who took CIS 100 in the period being measured. Of those 88 students, 79 of them were 80% or higher on their group evaluation scores. Here is the breakdown by period: 41 of 46 in Fall 2008 (89%) 28 of 32 in Winter 2009 (87%) 10 of 10 in Spring 2009 (100%)	This needs some scrutiny. It is obvious that many students have a "cooperate and graduate" attitude and are hesitant to throw a peer "under the bus". This is more prevalent in lower division classes, but still exists to some extent in upper division classes. Regardless, students need to develop the skill of working effectively in teams.
	3.2 100% of IS 485 students will achieve an 90% or higher rating from their peers on the end of the semester group evaluations.	33 Students took IS 485; of those 33 students, 29 rated their peers >= 90%. 29/33 = 88%. 6 of 7 in Fall 2008 (85.7%) - the one below 90% failed the class 23/26 in Winter 2009 (88.5%) - one failed, the other two were rated at 88%	
4. IS students will have an understanding of processes that support the delivery and management of information systems within a specific application environment.	4.1 100% of graduating IS students will achieve an average of 45% on Part 1 and Part 2 of the ISA Exam and score at least 40% on both parts.	All IS students completed the required exams and passed at the thresh-holds required prior to earning a degree in IS.	We also need to look at how many students didn't earn an IS degree because they couldn't pass the ISA Exam

Outcomes	Means of Assessment	Findings	Actions
5. Students will have an ability to use and apply current technical concepts and practices in the core information technologies.	1.1 100 % of the IT 480 students will design a network for a small company, or laboratory and then implement feasible portions of the design in our network laboratory.	86% of all IT 480 students successfully designed a network and turned in the projects.	Provide more time for students to complete their network assignments.
6. Students will an ability to apply design and development principles in the construction of software systems of varying complexity.	2.1 CS 203 Students will be able to build an interactive graphical program for performing queries on a data set. This will be demonstrated by 80% of students successfully completing the final project.	4 out of 5 students passed the project with a score of 75% or better, 80% was achieved.	