

CENTRAL NEW MEXICO COMMUNITY COLLEGE
ASSESSMENT REPORT
Due to SAAC by October 15

PART 1: CONTACT & PROGRAM IDENTIFICATION

Report Year and Contact Information:			
2013-2014 Academic Year	Terry Gonzales Contact Person	tfgonz@cnm.edu Email	224-4000 ext. 50214 Phone Number

Subject of this Assessment Report:		
Program: Web Technologies <input type="checkbox"/> Certificate <input type="checkbox"/> AA <input type="checkbox"/> AS <input checked="" type="checkbox"/> AAS	Gen Ed Area: Applicable to: <input type="checkbox"/> AA/AS <input type="checkbox"/> AAS	Discipline Area:

PART 2: EVIDENCE OF OVERALL PROGRAM EFFECTIVENESS

Summary of Program Successes:
For the fiscal year 2013-14, of the 1766 students with this declared major, 114 earned their degree. The average class size was 19 students and the retention rate was 85.17%. Of those 114 graduates, 72.3% went to work in the CIS field. 6 out of 114 graduates were from Web Technology concentration. Of those 6 graduates, the average score on their Capstone projects was 83%.

Description and Evaluation of Recent Changes Made in Support of Student Learning:
N/A

PART 3: REPORT ON RECENT ASSESSMENT OF STUDENT LEARNING

Student Learning Outcome(s) Assessed:	Classes/Cohorts Assessed:
<i>To add rows: right-click in cell below and select "Insert," "Insert Rows Above"</i> Student can write syntactically correct SQL SELECT/INSERT/UPDATE/DELETE statements for a multiple table Web application.	CIS 1513/ CIS 1750

Measurement Tool(s) Used: ?	Enter X's for type of tool ?				Initial Achievement Target or Expectation: ?
	Internal	External	Direct	Indirect	
<p>To add rows: right -click in cell below and <u>select</u> "Insert," "Insert Rows Above"</p> <p>Performance based projects used in classes CIS 1513 and CIS 1750 as well as Capstone projects and/or portfolios</p>	X		X		<p>The goal is to have 75% of our students achieving a "2" or better. The Web Technology exit competencies (from capstone project) are evaluated using a Rubrics with a scale:</p> <p>3 = Excellent (Work reflects comprehensive treatment of skills – Meets all expectations)</p> <p>2 = Satisfactory (Work reflects some application of skills – Meets most expectations)</p> <p>1 = Unsatisfactory (Work does not reflect adequate application of skills – Does not meet expectations)</p> <p>0 = Component not found</p>

Assessment Findings: ?
<p>For the 2013-2014 Academic year, the average score for the SLO #4 was a 76.25%. Three of the eight graduates scored 94% or better for SLO #4, one scored 89%, one 77% and the remaining scored below 75%.</p>

Analysis and Interpretation of Assessment Findings: ?
<p>Database technology and database operations are one of the most difficult topics in the Web technology program. Additionally, databases are used extensively in Web development. Currently, two courses within the Web Technology program address database programming: CIS 1513 and CIS 1750. Currently, these outcomes are measured as part of a Capstone project that involves building a Web site from scratch. This involves a large amount of work for the students for a Capstone class that is relatively short. We need to look at the Capstone project and perhaps require a Portfolio project of completed course work from CIS 1513 and CIS 1750 rather than a Web site built from scratch.</p> <p>As a footnote, students actually do very well in other areas of their projects (HTML, CSS, Client side scripting) but not as well with the more advanced Database requirements.</p>

Action Plan in Support of Student Learning: ?
<p>Recommend offering CIS 1750 PHP Programming in a traditional format (face to face) rather than Distance or Blended formats.</p>



Recommendations, Proposals, and/or Funding Requests:

PART 4: EMBEDDED OUTCOMES



Critical Thinking and Life Skills/Teamwork Development within Programs:


- a) Please describe how Critical Thinking assessment is embedded within your program assessment.
- b) Please describe how Life Skills/Teamwork assessment is embedded within your program assessment.

- a) By its nature, Database programming involves critical thinking. Class assignments and projects require students to analyze problems and come up with logical steps to solve a programming problem. Critical thinking is also necessary with designing, debugging and testing database driven Web pages.
- b) Student projects and assignments are evaluated based on timeliness, quality and accuracy of work. Students are required to validate their Web pages for syntactical correctness. Work that is not submitted on time is deducted points.

PART 5: ASSESSMENT CYCLE PLAN (Copy and paste from original plan if unchanged)



Cycle Years:	Plan Description:
2011-2015	Our assessment plan is designed to measure a variety of outcomes we have determined are necessary for success upon graduation. Performance-based projects, capstone projects, and portfolios are the primary measures used as these provide the greatest opportunity for assessment of students' application of concepts and skills.

Student Learning Outcomes: ?	When Measured: ?	Where Measured: ?	How Measured: ? 
1 Demonstrate effective techniques in publishing Web sites	Class / Capstone 2011 - 2012	CIS 1713, CIS 1715, CIS 1730, CIS 1750, CIS 2740, CIS 2999	<ul style="list-style-type: none"> Students will be given class projects to demonstrate proficiency in creating and navigating files and folders/subfolders on local and remote computers. Students will be required to demonstrate proficiency in creating and navigating files and folders/subfolders on local and remote computers in capstone projects. Students will be given class projects to demonstrate proficiency in using relative paths in the Web documents. Students will be required to demonstrate proficiency in using relative paths in the Web documents in capstone projects.
2 Create standards compliant XHTML Web Pages.	Class / Capstone 2011 - 2012	CIS 1713, CIS 1715, CIS 2740, / CIS 2999	<ul style="list-style-type: none"> Students will be given class projects to demonstrate proficiency in creating well formed, valid and standards compliant web pages. Students will be required to demonstrate proficiency in creating well formed, valid and standards compliant web pages in capstone projects. Students will be given class projects to demonstrate proficiency in creating web pages with properly validated inline, embedded and external style sheets. Students will be required to demonstrate proficiency in creating web pages with properly validated inline, embedded and external style sheets in capstone projects.
3 Demonstrate the ability to create a database for Web applications using SQL	Class / Capstone 2012 - 2013	CIS 1715, CIS 1513, CIS1730	<ul style="list-style-type: none"> Students will be given class projects to demonstrate proficiency in writing syntactically correct SQL create statement for a multiple table Databases. Students will be required to demonstrate proficiency writing syntactically correct SQL create statement for a multiple table Databases in capstone projects. Students will be given class projects to demonstrate proficiency
4 Student can write syntactically correct SQL SELECT/INSERT/UPDATE/DELETE statements for a multiple table Web application.	Class / Capstone 2013 - 2014	CIS 1715/CIS 1750/ CIS 2999	<ul style="list-style-type: none"> Students will be given class projects to demonstrate proficiency in selecting data from databases tables. Students will be required to demonstrate proficiency in selecting data from database tables in capstone projects. Students will be given class projects to demonstrate proficiency in inserting data into databases tables. Students will be required to demonstrate proficiency in inserting data into database tables in capstone projects.