

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

PART 1: CONTACT & PROGRAM IDENTIFICATION

Report Year and Contact Information			
<u>2016-2017</u> Academic Year	<u>Theresa Watson</u> Contact Person	<u>Twatson16@cnm.edu</u> Email	<u>224-4000 x50799</u> Phone Number

Subject of this Assessment Report		
Program: <u>Geographic Info Technology</u> <input checked="" type="checkbox"/> Certificate <input checked="" type="checkbox"/> AA <input type="checkbox"/> AS <input type="checkbox"/> AAS	Gen Ed Area: _____ Applicable to: <input type="checkbox"/> AA/AS <input type="checkbox"/> AAS	Non-Award, Non-Gen-Ed Discipline Area: _____

PART 2: THE YEAR IN RETROSPECT

Program/Area Highlights (Including, wherever applicable, course completion, job placement, and licensing examination information)
<p>The GIT Program is a small program that previously included Surveying. The last Assessment cycle was written to include this, but the Surveying portion has separated out to be its own program. Therefore, assessments from the surveying classes are not included here.</p> <p>Assessments from this point on will cover only GIS courses.</p> <p>For one of the Program Learning outcomes (#2), and several of the Course Outcomes, two types of assessment were used: Scores from applicable computer laboratory exercises, and scores from the Final Project.</p> <p>Scores from Quizzes and Midterm questions demonstrated a good understanding of concepts in the assessment areas. Scores averaged 89% overall.</p> <p>Scores from Final Project lab exercise for GIS 2007 was 83.3%</p> <p>Overall, students demonstrated understanding of concepts and demonstrated abilities to complete GIS tasks.</p> <p>This assessment cycle was not intended to include GIS 1001, but GIS 2001 and GIS 2007. However, GIS 2001 did not run during this assessment cycle, so this report only reflects GIS 2007 for Learning Outcome #2.</p> <p>Due to the thinness of data for this assessment cycle, it was decided that data for GIS 1001 would be collected and added to this report under Learning Outcome #1. Though not originally to be part of this year's report, the GIS 1001 data provides a nice long-term trend observation for this class.</p>

Changes Made in Support of Student Learning

Added a new Fundamentals course to lay the foundations for better understanding of key concepts. (GIS 1002 Fundamentals of GIS.) This means students are better prepared when entering the higher level GIS courses. Improvements in Assessment scores may be a reflection of this.
-Added additional online and hybrid sections of courses.

PART 3: REPORT ON RECENT ASSESSMENT OF STUDENT LEARNING

Student Learning Outcome(s) Assessed <i>To add rows: right-click in cell below and select "Insert," "Insert Rows Above"</i>	Classes/Cohorts Assessed
2. Obtain, process and create GIS data layers appropriate to a particular research topic using a variety of techniques including field data collection, downloading from Internet, manual digitizing and other methods. 4. Collect geospatial data using surveying techniques.	GIS 2007 Fall 2016; GIS 1001 Spring 2017* None, did not teach any courses where this outcome was applicable

Measurement Tool(s) Used <i>To add rows: right-click in cell below and select "Insert," "Insert Rows Above"</i>	<i>Enter X's for type of tool</i>				Initial Achievement Target or Expectation
	Internal	External	Direct	Indirect	
Lab exercises	x		x		Passing score for specific exercises.
Projects	x		x		Passing score for specific procedures.

Assessment Findings

See attached. (See the file: Results_GIS_2016-2017_All.txt)

Analysis and Interpretation of Assessment Findings

For Learning Outcome #1, GIS 1001:
 Scores from Quizzes and Midterm questions demonstrated a good understanding of concepts in the assessment areas. Scores averaged 89% overall.

6 Questions were used, and the pass rate for these were: 1.) 92% 2.) 92% 3.) 92% 4.) 85% 5.) 100% 6.)77%

For Learning Outcome #2, GIS 2007:

Scores were based upon the Final Project which was a laboratory based GIS project. Final Results were 10 PASS, 2 FALL, for a total pass rate of 83.3%

Action Plan in Support of Student Learning

IT was suggested in the last assessment cycle to use a specific rubric for the Final Project if that is to be used for assessment. However, another lab might be better utilized for this particular metric, with a built in assessment.

Please indicate with an X all of the following that characterize the types of changes described in the above action plan:

- Pedagogical change Course revision Process revision Curricular revision
- Budgetary reallocation Faculty training/development Assessment criteria revision Assessment methodology revision

Recommendations, Proposals, and/or Funding Requests

Online course available started to increase, and then has plateaued at this time.

The Final Project involves many of the tasks that can be assessed, but a rubric broken out to align with these assessments would prove useful, perhaps for the next Assessment cycle. Better would be to design a laboratory exercise specifically for the purpose of assessment.

PART 4: ASSESSMENT CYCLE PLAN UPDATE (Copy and paste from original plan if unchanged)

Cycle Years	Description of Changes Made (if applicable)
2014-2015 to 2018-2019	The assessment plan guides assessment of program outcomes for the GIT Certificate, Surveying Concentration . *This assessment was designed with Surveying was still part of GIT. However, Surveying is no longer part of GIT.

Student Learning Outcomes	When Measured	Where Measured	How Measured
1. Demonstrate understanding of theoretical concepts related to geographic data including	–2014-2015, 2015-2016;	GIS 1001, GIS-2001*	Exam Questions

spatial references, data models, data file structures and database management.	2016-2017** <i>** Added to this cycle</i>		
2. Obtain, process and create GIS data layers appropriate to a particular research topic using a variety of techniques including field data collection, downloading from Internet, manual digitizing and other methods.	2015-2016, 2016-2017;	GIS 2001 ***, GIS 2007 <i>***Though scheduled for this assessment cycle, GIS 2001 was not run during that time.</i>	As a required component of the Final Project ; Lab Exercises
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			