

**CENTRAL NEW MEXICO COMMUNITY COLLEGE**  
**ASSESSMENT REPORT**  
*Due to SAAC by Octobe15*

**PART 1: CONTACT & PROGRAM IDENTIFICATION**

Report Year and Contact Information:			
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<b>Academic Year</b>	<b>Contact Person</b>	<b>Email</b>	<b>Phone Number</b>

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

**PART 2: EVIDENCE OF ACHIEVEMENT OF PROGRAM OUTCOMES**

Summary of Program Success in Achieving Desired Outcomes:
We want the goal to be 60% achieved

Description and Evaluation of Recent Changes Made in Support of Student Learning:
Working on Pilot Final for CHEM 1810, since the ACS exam cannot be administered in the 15-week term.

**PART 3: REPORT ON RECENT ASSESSMENT OF STUDENT LEARNING PROCESSES**

Learning Outcome(s)/Exit Competencies Assessed:	Classes/Cohorts Assessed:
<i>To add rows: right-click in cell below and select "Insert," "Insert Rows Above"</i> #4, Use basic computational and graphical techniques to perform laboratory related calculations and data analysis.	CHEM 1810

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

Assessment Results/Findings:
58.0 % correct responses

Analysis and Interpretation of Assessment Results/Findings:
Questions will depend on understanding of a chemical concept and computational skill. This assessment will give us an idea about students' learning outcome on the utilization of mathematical techniques to evaluate and solve scientific problems.

Action Plan in Support of Student Learning:
<ol style="list-style-type: none"> <li>1) Re-scan any available data from ACS exams using more detailed analytics to determine common student errors on the analyzed questions.</li> <li>2) Meet to address the issue of why students are missing the questions studied, and what we can do to improve their understanding.</li> </ol>

Recommendations, Proposals, and/or Funding Requests:
Communicate findings of above action plan to all instructors, with ideas for learning modules to address the misunderstandings of the students.

#### PART 4: EMBEDDED OUTCOMES

Critical Thinking and Life Skills/Teamwork Development within Programs:
<ol style="list-style-type: none"> <li>a) Please describe how Critical Thinking assessment is embedded within your program assessment.</li> <li>b) Please describe how Life Skills/Teamwork assessment is embedded within your program assessment.</li> </ol>
a) Critical thinking is a necessity in order to solve mathematical problems involving chemical concepts. The process of solving the problem involves a fundamental understanding of the chemistry behind the math, in order to correctly apply the appropriate problem-solving method and equation to be able to answer the question.
b) Teamwork development is a part of our program, since our students are paired with a lab partner, and must learn to work together in order to successfully use a variety of instrumentation to make measurements, record data, and analyze the data appropriately.

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

<b>Plan Description:</b>

<b>Student Learning Outcomes/Exit Competencies:</b>	<b>When Measured:</b>	<b>Where Measured:</b>	<b>How Measured:</b>
1. CHEM 1710 Lecture Final	2013 - 2015	CHEM 1710 &/or 1792	Direct/external
2. CHEM 1792 Lab Final	2015 - 2017	CHEM 1710 &/or 1792	Direct/internal
3. CHEM 1792 Lab Final	2013 - 2015	CHEM 1710 &/or 1792	Direct/internal
4. CHEM 1810 ACS Standard Final Exam	2013 - 2015	CHEM 1810 &/or 1892	Direct/external
5. CHEM 2792/2892 Lab Final	2013 - 2015	CHEM 2792 &/or 2892	Direct/internal
6. CHEM 1892 Lab Report	2015 - 2017	CHEM 1810 &/or 1892	Direct/internal
7.			
8.			
9.			
10.			