

**CENTRAL NEW MEXICO COMMUNITY COLLEGE**

**ASSESSMENT REPORT**

*Due to SAAC by September 30*

**PART 1: CONTACT & PROGRAM IDENTIFICATION**

Report Year and Contact Information:			
<u>2014 – 2015</u>	<u>Erica Voges</u>	<u>evoges@cnm.edu</u>	<u>X52680</u>
<b>Academic Year</b>	<b>Contact Person</b>	<b>Email</b>	<b>Phone Number</b>

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

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

Summary of Program Success in Achieving Desired Outcomes:
With three of the four Physics faculty being new, we have decided to begin fresh with a new assessment plan. As such, we have no current results, but have established our 5-year cycle plans and will begin collecting data in Spring 2015.

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

**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>	
N/A	

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>					
N/A					

Assessment Results/Findings:
N/A

Analysis and Interpretation of Assessment Results/Findings:
N/A

Action Plan in Support of Student Learning:
Begin assessment in Spring 2015, analyze results, and consider any appropriate changes to curriculum.

Recommendations, Proposals, and/or Funding Requests:
N/A

#### PART 4: EMBEDDED OUTCOMES

Critical Thinking and Life Skills/Teamwork Development within Programs:
<ul 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> </ul>
a) Critical thinking is employed when designing and conducting experiments, analyzing and interpreting data, and formulating and solving engineering problems (SLOS 2 and 4).
b) Two of our SLOs will be assessed in physics laboratory courses, which require teamwork. Additionally, ENGR 1010 requires a final group project.

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

<b>Plan Description:</b>
The goal is to assess each of the nine Engineering outcomes over the course of the next five years. These outcomes will be assessed in engineering courses, as well as in calculus-based physics lectures and labs.

<b>Student Learning Outcomes/Exit Competencies:</b>	<b>When Measured:</b>	<b>Where Measured:</b>	<b>How Measured:</b>
1. Apply knowledge of mathematics, science, and engineering.	Fall 14 – Spring 16	PHYS 1810	To be determined
2. Design and conduct experiments, as well as to analyze and interpret data.	Fall 18 – Spring 20	PHYS 1792	To be determined
3. Function on multi-disciplinary teams.	Fall 14 – Spring 16	PHYS 1892	Final Project presentation
4. Identify, formulate, and solve engineering problems.	Fall 16 – Spring 18	ENGR 2815	Final Exam question
5. Recognize/identify professional and ethical responsibility.	Fall 20 – Spring 22	ENGR 1010	To be determined
6. Communicate effectively.	Fall 16 – Spring 18	ENGR 1010	To be determined
7. Recognize/identify the impact of engineering solutions in a global, economic, environmental, and societal context.	Fall 18 – Spring 20	PHYS 2710	To be determined
8. Have knowledge of contemporary issues	Fall 16 – Spring 18	PHYS 2710	To be determined
9. Demonstrate basic techniques, skills, and modern engineering tools necessary for engineering practice.	Fall 20 – Spring 22	ENGR 2810	To be determined