

**CENTRAL NEW MEXICO COMMUNITY COLLEGE
ASSESSMENT CYCLE PLAN**

Due to SAAC by September 30 following new program approval or at the end of the prior cycle plan

Cycle Plan Years and Contact Information:			
2015 – 2020	Erica Voges	evoges@cnm.edu	X52680
Cycle Years	Contact Person	Email	Phone Number

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

Plan Description:
<p>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.</p>

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) 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.

Student Learning Outcomes/Exit Competencies:	When Measured:	Where Measured:	How Measured:
1. Apply knowledge of mathematics, science, and engineering.	Fall 14 – Spring 16	PHYS 1810	Final exam question.
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 15 – Spring 16	PHYS 1892	Observation of teams performing experiments in lab.
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