

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

*Due to SAAC by June 1 following new program approval or at the end of the prior cycle plan*

Cycle Plan Years and Contact Information:			
2014-2019	Rachel Black	<a href="mailto:Rblack18@cnm.edu">Rblack18@cnm.edu</a>	
<b>Cycle Years</b>	<b>Contact Person</b>	<b>Email</b>	<b>Phone Number</b>

Subject of this Assessment Report:		
<b>Program:</b> Mathematics <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> _____

Plan Description:

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)
b)

Student Learning Outcomes/Exit Competencies:	When Measured:	Where Measured:	How Measured:
1. Demonstrate competency in the core concepts of single-variable, differential calculus which includes limits, continuity, differentiation, and optimization.	AY 2014/15 AY 2015/16	MATH 1710	Standard Test Questions: internal and direct. Group Project: internal and direct.
2. Demonstrate competency in the core concepts of single-variable integral calculus which includes various integration techniques, separable	AY 2015/16 AY 2016/17	MATH 1715	Standard Test Questions: internal and direct. Group Project: internal and direct.

differential equations, and series.			
3. Demonstrate competency in the core concepts of multivariable and vector calculus which includes level curves and surfaces, partial derivatives, gradients, tangent planes, directional derivatives, multiple integrals, and cylindrical and spherical coordinates	AY 2016/17 AY 2017/18	MATH 2710	Standard Test Questions: internal and direct. Group Project: internal and direct.
4. Construct mathematical strategies using calculus techniques to solve applied problems from a variety of disciplines utilizing appropriate terminology and symbols.	AY 2014/15 AY 2015/16	MATH 1710, 1715, 2710	Group Project: internal and direct. Standard Test Questions: internal and direct.
5. Develop proficiency in using various technological tools including graphing calculators and mathematical programming software (MATLAB).	AY 2015/16 AY 2016/17	MATH 1710, 1715, 2710	Standard Test Questions: internal and direct. Group Project: internal and direct.
6. Develop proficiency in introductory computer programming skills.	AY 2016/17 AY 2017/18	CSCI 1153	Group Project: internal and direct. Standard Test Questions: internal and direct.