

**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:			
<u>2012-2017</u>	<u>Leah C. Freeman</u>	<u>lpulling@cnm.edu</u>	<u>50261</u>
Cycle Years	Contact Person	Email	Phone Number

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

Plan Description:
Outcome #3 – Assessed in BIOT 1210/1270 (embedded questions in exams) and BIOT 2410/2470 (comprehensive final exam) Outcome #4 – Assessed in BIOT 150/1570 (embedded questions in exams) and BIOT 2410/2470 (comprehensive final exam) Outcome #5 – Assessed in BIOT 2410/2470 (embedded questions in exams) and BIOT 2410/2470 (comprehensive final exam) Outcome #6- Assessed in BIOT 2475

Student Learning Outcomes/Exit Competencies:	When Measured:	Where Measured:	How Measured:
1. Communication: Demonstrate professional conduct and interpersonal communication skills in interactions with laboratory personnel, staff, and other members of the scientific community.	Summer 2013 Spring 2015 Spring 2016 Spring 2017	BIOT 1210/1270 BIOT 2210 BIOT 2210 BIOT 2210	Evaluation by instructor and summer internship mentor Evaluation by instructor and presentation
2. Quality Control: Demonstrate the ability to follow standard operating procedures, keep accurate records, and perform equipment validation and maintenance.	Summer 2014 Fall 2014 Spring 2015 Summer 2015 Fall 2015 Spring 2016 Summer 2016	BIOT 1020 BIOT 2110 BIOT 2210 BIOT 1020 BIOT 2110 BIOT 2210 BIOT 1020	Questions embedded in exams, laboratory notebook, final exam

	Fall 2016 Spring 2017	BIOT 2110 BIOT 2210	
3. Safety: Demonstrate an understanding of basic laboratory safety and the handling and disposal of radioactive, biological, and chemical wastes.	Summer 2012 Fall 2012 Spring 2013 Summer 2014 Fall 2014 Spring 2015 Summer 2015 Fall 2015 Spring 2016 Summer 2016 Fall 2016 Spring 2017	BIOT 1210/1270 BIOT 1510/1570 BIOT 2410/2470 BIOT 1020 BIOT 2110 BIOT 2210 BIOT 1020 BIOT 2110 BIOT 2210 BIOT 1020 BIOT 2110 BIOT 2210	Questions embedded in exams, laboratory practical, final exam
4. Nucleic Acids: Demonstrate an understanding of the basic properties of nucleic acids, as well as, techniques used to isolate, purify, and analyze these molecules.	Fall 2011 Spring 2012 Summer 2012 Fall 2012 Spring 2013 Fall 2014 Fall 2015 Fall 2016	BIOT 1510/1570 BIOT 2410/2470 BIOT 1210/1270 BIOT 1510/1570 BIOT 2475 BIOT 2110 BIOT 2110 BIOT 2110	Questions embedded in exams, laboratory practical, final exam
5. Proteins: Demonstrate an understanding of the basic properties of proteins, as well as, techniques used to isolate, purify, and analyze these molecules.	Spring 2012 Spring 2013 Spring 2015 Spring 2016 Spring 2017	BIOT 2410/2470 BIOT 2475 BIOT 2201 BIOT 2201 BIOT 2201	Questions embedded in exams, laboratory practical, final exam
6. Computer Skills: Demonstrate command of basic computer skills including word processing, spreadsheets, and databases, as well as, basic bioinformatics skills used to perform literature searches, and characterization of nucleic acids and proteins	Spring 2013 Summer 2014 Fall 2014 Spring 2015 Summer 2015 Fall 2015 Spring 2016 Summer 2016 Fall 2016 Spring 2017	BIOT 2475 BIOT 1020 BIOT 2110 BIOT 2210 BIOT 1020 BIOT 2110 BIOT 2210 BIOT 1020 BIOT 2110 BIOT 2210	Questions embedded in take-home exams & on-line assignments