

**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><a href="mailto:lpulling@cnm.edu">lpulling@cnm.edu</a></u>	<u>50261</u>
<b>Cycle Years</b>	<b>Contact Person</b>	<b>Email</b>	<b>Phone Number</b>

Subject of this Assessment Report:		
<b>Program:</b> <u>Biotechnology</u> <input checked="" type="checkbox"/> Certificate <input type="checkbox"/> AA <input 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:
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.	<b>Summer 2013</b> <b>Spring 2015</b> <b>Spring 2016</b> <b>Spring 2017</b>	<b>BIOT 1210/1270</b> <b>BIOT 2210</b> <b>BIOT 2210</b> <b>BIOT 2210</b>	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.	<b>Summer 2014</b> <b>Fall 2014</b> <b>Spring 2015</b> <b>Summer 2015</b> <b>Fall 2015</b> <b>Spring 2016</b> <b>Summer 2016</b>	<b>BIOT 1020</b> <b>BIOT 2110</b> <b>BIOT 2210</b> <b>BIOT 1020</b> <b>BIOT 2110</b> <b>BIOT 2210</b> <b>BIOT 1020</b>	Questions embedded in exams, laboratory notebook, final exam

	<b>Fall 2016</b> <b>Spring 2017</b>	<b>BIOT 2110</b> <b>BIOT 2210</b>	
3. Safety: Demonstrate an understanding of basic laboratory safety and the handling and disposal of radioactive, biological, and chemical wastes.	<b>Summer 2012</b> <b>Fall 2012</b> <b>Spring 2013</b> <b>Summer 2014</b> <b>Fall 2014</b> <b>Spring 2015</b> <b>Summer 2015</b> <b>Fall 2015</b> <b>Spring 2016</b> <b>Summer 2016</b> <b>Fall 2016</b> <b>Spring 2017</b>	<b>BIOT 1210/1270</b> <b>BIOT 1510/1570</b> <b>BIOT 2410/2470</b>  <b>BIOT 1020</b> <b>BIOT 2110</b> <b>BIOT 2210</b> <b>BIOT 1020</b> <b>BIOT 2110</b> <b>BIOT 2210</b> <b>BIOT 1020</b> <b>BIOT 2110</b> <b>BIOT 2210</b>	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.	<b>Fall 2011</b> <b>Spring 2012</b> <b>Summer 2012</b> <b>Fall 2012</b> <b>Spring 2013</b> <b>Fall 2014</b> <b>Fall 2015</b> <b>Fall 2016</b>	<b>BIOT 1510/1570</b> <b>BIOT 2410/2470</b> <b>BIOT 1210/1270</b> <b>BIOT 1510/1570</b> <b>BIOT 2475</b> <b>BIOT 2110</b> <b>BIOT 2110</b> <b>BIOT 2110</b>	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.	<b>Spring 2012</b> <b>Spring 2013</b> <b>Spring 2015</b> <b>Spring 2016</b> <b>Spring 2017</b>	<b>BIOT 2410/2470</b> <b>BIOT 2475</b> <b>BIOT 2201</b> <b>BIOT 2201</b> <b>BIOT 2201</b>	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	<b>Spring 2013</b> <b>Summer 2014</b> <b>Fall 2014</b> <b>Spring 2015</b> <b>Summer 2015</b> <b>Fall 2015</b> <b>Spring 2016</b> <b>Summer 2016</b> <b>Fall 2016</b> <b>Spring 2017</b>	<b>BIOT 2475</b> <b>BIOT 1020</b> <b>BIOT 2110</b> <b>BIOT 2210</b> <b>BIOT 1020</b> <b>BIOT 2110</b> <b>BIOT 2210</b> <b>BIOT 1020</b> <b>BIOT 2110</b> <b>BIOT 2210</b>	Questions embedded in take-home exams & on-line assignments