

CNM ANNUAL STUDENT LEARNING ASSESSMENT REPORT

Due to the Student Academic Assessment Committee by October 15



PART 1: REPORT INFORMATION

Report Year and Contact Information			
<u>2018-2019</u> Academic Year	<u>Sierra Netz</u> Contact Person	<u>snetz@cnm.edu</u> CNM Email	<u>52898</u> CNM Office Extension

Subject of this Report
MSE--BIOLOGY_AS--Biology Degree

PART 2: CONTEXT IN WHICH THE ASSESSMENT TOOK PLACE

Program/Area Highlights and Successes (Wherever applicable, include course completion rates, job placement outcomes, and licensing examination pass rates. See the program information dashboard at https://livecnm.sharepoint.com/sites/Dashboards/SitePages/Program%20Information%20Dashboard.aspx (access restricted to CNM employees) and other reports at https://www.cnm.edu/depts/opie .)
<p>The scheduled assessments for this reporting were as follows:</p> <p>Spring 2019: Apply the scientific method to formulate questions, analyze information/data and draw conclusions. (BIO 1610)</p> <p>Summer 2019*: Integrate concepts draw from cellular and organismal biology with evolutionary adaptations (BIO 2510)</p> <p>Summer 2019*: Communicate effectively. (BIO 2510)</p> <p>Summer 2019*: Collaborate with peers to accomplish tasks. (BIO 2510)</p> <p>* Not assessed due to course cancellation</p>

Changes Implemented During the Past Year in Support of Student Learning
This assessment was last used in Spring and Summer 2017. No changes were made to the assignment during this period.

PART 3: REPORT ON ASSESSMENT OF STUDENT LEARNING

Assessment Method	Type of Assessment Tool	Population or Course(s) Assessed	Graduate Learning Outcome(s) Assessed	Mastery Level (E.g., "Minimum score of 3 on a rubric scaled 0-4" or "Minimum score of 75%")	Targeted % Achieving Mastery	Outcome
4-part Worksheet	Direct & Internal	BIO 1610	Scientific Method - Analyze Data (Graphical Interpretation)	Minimum score of 70%	100%	Target met
4-part Worksheet	Direct & Internal	BIO 1610	Scientific Method - Concept Comprehension	Minimum score of 70%	83%	Target met
4-part Worksheet	Direct & Internal	BIO 1610	Scientific Method - Drawing Conclusions (Predictive Ability)	Minimum score of 70%	83%	Target met
Common Lab Final Question	Direct & Internal	BIO 1692	Scientific Method	Minimum score of 70%	96%	Target met
Common Lecture Final Question	Direct & Internal	BIO 1610	Scientific Method	Minimum score of 70%	85%	Target met
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Summary of Assessment Findings
Based on the target of 70% of the class achieving a mastery requirement of a 70% or higher, the students were successful.

Interpretation of Assessment Findings
The majority of the class was able to comprehend key ideas, interpret experimental data, work as and communicate within a group, and predict outcomes of alternative biological conditions.

Action Plan in Support of Student Learning (Describe changes to be made that are based at least in part on the assessment interpretation. If the assessment did not yield useful information, describe changes to be made in the assessment methodology and/or criteria.)
Due to new HED requirements a completely new assessment plan has been implemented as of Fall 2019. New outcomes will be assessed according to this new cycle plan, this includes assessing new Learning Outcomes and Essential Skills. To achieve these new assessment goals, faculty have created new assessments for the upcoming cycle.

Please select all of the following that characterize the types of changes described in the above action plan:

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|--|---|---|
| <input checked="" type="checkbox"/> Assessment criteria revision | <input checked="" type="checkbox"/> Assessment methodology revision | <input checked="" type="checkbox"/> Assignment revision |
| <input type="checkbox"/> Budgetary reallocation | <input type="checkbox"/> Change in teaching approach | <input checked="" type="checkbox"/> Course content revision |
| <input checked="" type="checkbox"/> Curricular Revision | <input type="checkbox"/> Faculty training/development | <input type="checkbox"/> Process revision |

Recommendations, Proposals, and/or Funding Requests	Budget Needed
Please see the new MSE Biology AS Cycle Plan for details.	N/A

PART 4: REMAINING YEARS IN CURRENT ASSESSMENT CYCLE PLAN (including any revisions) – **OR -- UPCOMING ASSESSMENT CYCLE PLAN** (if this was the final year)

Years of Full Cycle	Next Year's Assessment Focus (Describe how the next planned assessment is expected to provide information that can be used toward improving student learning.)
N/A	Apply the scientific method to formulate questions, analyze information/data, and draw conclusions; communicate effectively, properly operate lab equipment to collect relevant and quality data.

Graduate Learning Outcomes to Be Assessed	Years in which Assessment Is Planned	Population/Courses to Be Assessed	Planned Assessment Approach
Apply the scientific method to formulate questions, analyze information/data, and draw conclusions.	Fall 2019/Spring 2020	BIOL 2110L	Group Lab report- planning and executing scientific experiment (overlaps ES 1-4, 10-12)
Communicate effectively	Fall 2019/Spring 2020	BIOL 2410L	Oral Report (overlaps ES 1-4, 10-12)
Properly operate lab equipment to collect relevant and quality data.	Fall 2019/Spring 2020	BIOL 2110L	Group Lab Report- Data collection and analysis (overlaps ES 10-12)
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