2022-23 General Education Learning Outcome Report – Natural Science

Definition: Students will be able to apply scientific terminology, investigate and draw conclusions about the natural world.

Instructor name	Sara Plaggemeyer
Date	7/6/2023
Course (e.g., CS 101)	SC 114 Survey of Biology
Number of students assessed	11
Semester and year assessed (e.g., fall 2023)	S23
Identify the specific graded summative assessment(s)	Final Exam Part 1

Fill in the columns for the indicators that can be assessed using the specific graded summative assessment identified above (enter "NA" on the other rows)

General education indicators: *Students were able to…*	Results of assessment: For each indicator, indicate the % or # of students who performed below, at, or above expected levels			Next steps / reflections (e.g., teaching and learning strategies, assessment method, proposed curriculum changes): For each indicator, write reflections on anything that stood out for you (e.g., areas for student growth, areas where students excelled, proposed curriculum changes).
	% or # **below** expected level (D/F grade)	% or # **at** expected level (C grade)	% or # **above** expected level (A/B grade)	
1. Apply scientific terminology.	3	3	5	11 students completed the final exam: part 1. The percentage of students that paced expected or above were 73%. Students performed the worst on the matching terms type of questions with matching about 60% of the questions correct Next steps: Since it was consistently the same type of question students had problems with (which I have seen other semesters) possible reformatting the test may be needed. The focus of the terminology, in this case terms of atomic structure and DNA structure on the matching, may indicate that support curriculum may need to be re-evaluated. Next steps would be to evaluate the curriculum/modules that are used to teach the information to the students, it may be important to reinforce this information in other supporting courses. Additional teaching strategies need to be looked into because atomic structure and DNA are not visible physically, it may be a little abstract to students.

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	% or # **below expected level** (D/F grade)	% or # **at expected level** (C grade)	% or # **above expected level** (A/B grade)	
2. Apply the scientific method to explore the natural world.	NA	NA	NA	NA
3. Draw conclusions about the natural world.	NA	NA	NA	NA

Teaching/learning success: Explain any teaching or learning strategies you found to be effective for students to learn these general education indicators.	The strategies I used to introduce the terminology during the semester included lectures, short animations, and multiple choice/short answer quizzes.
Suggestions to improve this report or process	None