



Office of Institutional Effectiveness and Accreditation
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General Education Outcome 3: An LSU Eunice graduate will apply knowledge of natural science to the exploration and analysis of natural phenomena (results are from AY 2017-2018 unless noted).

General Education Natural Science

Objective: Students will successfully complete their general education coursework developing competencies in the natural sciences as required by their curricula. This objective is assessed by the student learning outcomes (SLOs) in BIOL 1001.

SLOs for BIOL 1001: Upon successful completion of General Biology, the student will

- A. Understand terms in the context of a scientific statement.
- B. Critically evaluate biological concepts.
- C. Integrate biological knowledge with other aspects of common knowledge.

Assessment	Methodology	Expected Level of Achievement	Number of Students	Most Current SLO Data	Result	Improvement
BIOL 1001	SLOs directly assessed on final exam using embedded questions.	ELA = 70%: it is the lowest transferrable average grade	492 students in 11 sections	Overall = 76% SLO A = 75% SLO B = 76% SLO C = 76%	Since the observed score of 76% > the ELA of 70% Objective met	Collect additional data prior to making changes since there were major gains from the past year.

SLO results for BIOL 1001 (General Biology) AY 2017-2018 as Percentages.

BIOL 1001 SLO Description	Overall	LSUE	Dual Credit	LSUA	LSU Lab	Online ¹	Accelerated
Overall	76	77				63	
A. Understand terms in the context of a scientific statement.	75	77	none	none	none	59	none
B. Critically evaluate biological concepts.	76	76				68	
C. Integrate biological knowledge with other aspects of common knowledge.	76	77				62	
Total number of sections	11	8				3	
Total number of students tested	492	450				42	
Note: One online and three accelerated sections not assessed.							

SLOs for BIOL 1002: Upon the successful completion of General Biology, the student will:

- A. Arrange, breakdown, illustrate and outline the order of classification of living organisms.
- B. Compare and contrast the life history and life cycle of diverse groups of microorganisms, fungi, plants and animals.
- C. Differentiate the characteristics of the major taxa of organisms: archaea, eubacteria, protists, fungi, plants and animals.

Assessment	Methodology	Expected Level of Achievement	Number of Students	Most Current SLO Data	Result	Improvement
BIOL 1002	SLOs directly assessed on final exam using embedded questions.	ELA = 70%: it is the lowest transferrable average grade	147 students in six sections	Overall = 76% SLO A = 75% SLO B = 76% SLO C = 79%	Since the observed score of 76% > the ELA of 70% Objective is tentatively met	Collect additional data since last year was the pilot and there were major gains from last year to AY 2017-2018.

SLO results for BIOL 1002 (General Biology) AY 2017-2018 as Percentages

BIOL 1002 SLO Description	Overall	LSUE	Dual Credit	LSUA	LSU Lab	Online	Accelerated
Overall	76	63				87	
A. Arrange, breakdown, illustrate and outline the order of classification of living organisms.	75	66				83	
B. Compare and contrast the life history and life cycle of diverse groups of microorganisms, fungi, plants and animals.	76	61	None	none	none	88	None
C. Differentiate the characteristics of the major taxa of organisms: archaea, eubacteria, protists, fungi, plants and animals.	79	66				89	
Total number of sections	6	2				4	
Total number of students tested	147	66				81	
Note: All sections assessed. Accelerated and online combined to one set of numbers.							

SLOs for PHSC 1002: Upon the successful completion of Physical Science, the student will:

1. Identify parts of the periodic table.
2. Employ balancing techniques on chemical equations.
3. Distinguish between different classification of rocks.

Assessment	Methodology	Expected Level of Achievement	Number of Students	Most Current SLO Data	Result	Improvement
PHSC 1002	SLO data collected using embedded questions on unit exams	ELA = 70%: it is the lowest transferrable average grade	47 students in two face-to-face sections	Overall = 68% SLO 1 = 66% SLO 2 = 75% SLO 3 = 62%	Since the observed score of 68% < the ELA of 70% Objective is not met	Continue to gather data since this is the first iteration of SLO data for PHSC 1002.

SLO results for PHSC 1002 (Physical Science) AY 2017-2018 in Percentages.							
PHSC 1002 SLO Description	Overall	LSUE	Dual Credit	LSUA	LSU Lab	Online	Accelerated
Overall	68	68					
1. Identify parts of the periodic table.	66	66	none	none	none	none	none
2. Employ balancing techniques on chemical equations.	75	75					
3. Distinguish between different classification of rocks.	62	62					
Total number of sections	2	2					
Total number of students tested	47	47					

Questions may be directed to Dr. Paul Fowler, Director of Institutional Effectiveness at pfowler@lsue.edu.