

## **B. PLNU General Education course (BIO 1004)**

### **FELO 1c: Information Literacy**

Students will be able to access and cite information as well as evaluate the logic, validity, and relevance of information from a variety of sources. This outcome will be measured yearly via direct, summative assessment.

**Outcome Measure:** Signature Assignment: Multiple choice questions on the final exam taken from the Test of Scientific Literacy Skills (TOSLS). The whole class was assessed.

**Criteria for Success:** At least 60% of the students will answer the questions correctly (an average of 60% for all of the questions). 60% was chosen since this is an introductory course for non-science majors. Questions from the TOSLS were chosen that specifically addressed information literacy and were appropriate for the content of each course.

### **Longitudinal Data:**

	FALL, 2019		SUMMER, 2019		SUMMER, 2018	
Class	n	% of Students Answering TOSLS Questions Correctly (Ave + S.D.)	n	% of Students Answering TOSLS Questions Correctly (Ave + S.D.)	n	% of Students Answering TOSLS Questions Correctly (Ave + S.D.)
BIO1004	43	83 + 15	16	88 + 13	22	79 + 12

**Conclusions Drawn from Data:** The students in BIO1004 are meeting the criteria for information literacy. These data were not collected in 2020 - 2022 due to COVID.

**Changes to be Made Based on Data:** We will continue to use these questions for summative assessment in our GE courses.

**Rubric:** Gormally, C., Brickman, P., and Lutz, M. "Developing a Test of Scientific Literacy Skills (TOSLS): Measuring Undergraduates' Evaluation of Scientific Information and Arguments." C.B. E. Life Science Education 11(4): 364-377 (2012).

BIO1004: Questions 5, 9, 10, 17, 22, 27