Implementation Plan and Teaching Notes

**Context:**

**Instructor**: James Wiebler

**Department/Institution**: Biology, Muscatine Community College   
**Audience Level**: Undergraduate, Community College

**Instructional Setting**: Lecture

**Number of Students**: 6

**Expected dates of implementation**: January-May, 2024

**OCELOTS Module Title**: Snapshot Serengeti  
**Link to Module on Gala**: <https://www.learngala.com/cases/snapshot-serengeti-preview-version>

**Learning Goals of Module:**

* Define Citizen Science and describe its role in research
* Formulate hypotheses about how the spatial and temporal distributions of Serengeti species may be shaped by other biotic and abiotic factors.
* Use graphical data to address a hypothesis and interpret graphs. In particular, construct unique data visualizations and use those visualizations to evaluate hypotheses and understand ecological concepts.
* Differentiate data types – categorical versus continuous data.
* Demonstrate how seasonality and water availability shape the distribution of Serengeti organisms.

**Pedagogical techniques used**:

I plan to implement this module in Name of Course (BIO-295) using lecture and discovery learning through the use of group discussions, field trips, field sampling, and case study applications.

**Adaptations made or parts used if the entire module was not used**

Although I don’t plan to make any adaptations for the first implementation, I may adapt the module so that camera trap data are collected at Nahant Marsh and other public land.

**Supplemental materials created**

I plan to incorporate readings from American Serengeti: The Last Big Animals of the Great Plains by Dan Flores.

**Assessments**

I will develop and implement quizzes and exams on pertinent material from the module.

**Additional Notes**

I plan to:

1. Order copies of American Serengeti:  Flores, D. (2017). The Last Big Animals of the Great Plains.
2. Make worksheets, quizzes, and/or exams pertinent to the module.
3. Register for Snapshot Safari  <https://www.zooniverse.org/organizations/meredithspalmer/snapshot-safari>

**Teaching Notes:** This module has not yet been implemented for BIO-295.