Miami Dade College

Course Description
ZOO1010L |Zoology Laboratory | 1.00 credit
Laboratory for ZOO1010. Corequisite ZOO1010.

Competency 1: The student will demonstrate proficiency in data collection by:
1. Collecting and recording accurate and detailed observations of animal behavior during laboratory experiments
2. Gathering and organizing quantitative and qualitative data using appropriate tools and techniques
3. Identifying and selecting relevant data points to support scientific hypotheses and conclusions

Competency 2: The student will exhibit competence in data analysis by:
1. Applying statistical methods to analyze and interpret collected data, such as calculating averages, standard deviations, and correlations
2. Using appropriate software or tools to create visual representations, such as graphs or charts, to illustrate patterns and trends in the data
3. Drawing logical conclusions and inferences based on the analyzed data, linking them to the underlying biological concepts

Competency 3: The student will develop proficiency in scientific reasoning by:
1. Formulating testable hypotheses based on prior knowledge and observations
2. Designing controlled experiments to explore the cause-and-effect relationships between variables
3. Evaluating and critically analyzing scientific literature, identifying strengths and weaknesses in experimental design and methodology

Learning Outcomes:
- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information