# EVOLUTION AND DIVERSITY OF LIFE LAB- BIOL 1020 ONLINE

# COURSE INFORMATION:

a. Title: Evolution and Diversity of Life (BIOL 1010 Section A)b. Instructor: Dr. Timothy Henkel (tphenkel@valdosta.edu)

c. **Office:** Bailey Science Center 2212, Valdosta State University

d. **Phone**: 229-249-4941

**CATALOG DESCRIPTION:** Corequisite: BIOL 1010 Online. This course cannot be taken for credit toward the major in biology. A laboratory course to accompany Biology 1010 emphasizing the diversity of life.

### COURSE OBJECTIVES:

This course fulfills one portion of Area D of the Learning Outcomes for Valdosta State University's Core Curriculum: Students will demonstrate understanding of the physical universe and the nature of science, and they will use scientific methods and/or mathematical reasoning and concepts to solve problems. (http://www.valdosta.edu/academics/general-education-council/ge-outcomes.php)

Students will participate in the process of scientific inquiry by asking scientific questions, developing hypotheses, predicting outcomes of experiments, collecting and interpreting data and drawing

# COMMUNICATION:

**Email:** Email is the simplest and primary way to contact me outside of class and is the quickest way for me to contact you as well. You are required to check and maintain your Valdosta State University email account. I will only communicate with you through this official email account.

**Do NOT email using the Blazeview system**, all email should be sent directly to <a href="mailto:tphenkel@valdosta.edu">tphenkel@valdosta.edu</a> using your VSU issued email account.

Notes on emailing your professor:

In order to get a reply to your emails you <u>must</u> do the following in your email communication:

# Tentative Topics and Reading Assignments

#### Week 1

- 1. Understanding Experimental Design
- 2. Darwinian Snails Lab
- 3. Evolution for Ecology (Starts Day 1; Must be Completed by end of Week 3)

#### Week 2

- 4. Genetic Drift and Bottlenecked Ferrets Lab
- 5. Sickle Cell Alleles Lab

#### Week 3

6. Flowers and Trees Lab

# Week 4

7. Understanding Population Growth Models Lab

# Week 5

8. Isle Royale Lab

# Week 6

9. Keystone Predator Lab

# Week 7

10. Nutrient Pollution Lab