

EVOLUTION AND DIVERSITY OF LIFE- BIO 1010 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: An introduction to the diversity of life on Earth with a special emphasis on ecological and evolutionary processes and relationship

- **Co-requisite BIOL 1020L ONLINE:** The online lab is specifically designed to complement your understanding of the concepts covered in the course through simulations and discussions. Students taking the online 1010 should also be taking the online 1020 Lab.

COURSE OBJECTIVES:

This course fulfills one portion of Area D of the Liberal Arts and Sciences Core Curriculum.

- a. Learn about the nature of science and how to build scientific knowledge.
- b. Demonstrate a fundamental knowledge of evolution and how it shapes life.
- c. Effectively organize, communicate and apply their knowledge to their everyday lives.

COURSE MATERIALS:

Textbook: Concepts of Biology from OpenStax College, ISBN 1-938168-11-9,
<https://openstaxcollege.org/textbooks/concepts-of-biology>

Readings will be assigned from Concepts of Biology. The text is available free online, in a variety of formats, and a print version or mobile app are available to purchase.

Additional readings and videos will regularly be assigned and made available via Blazeview.

INSTRUCTIONAL ACTIVITIES: Learning is not a passive activity in which you simply absorb and repeat back facts given by an instructor. Rather, learning requires you to take an active role. In fact, to truly understand science you must construct your own personal interpretation of the concepts and store them away in a form that is meaningful to you.

Students will be assigned reading material. Facts and vocabulary are important to any discipline, though I ask you to go beyond simple memorization of details and interconnect those facts to concepts, applications and problems; to ask meaningful questions; to test well developed hypotheses; to develop a range of intellectual abilities, including critical thinking, logical argument, appropriate uses of evidence and interpretation of varied kinds of information; and to communicate your understanding in writing and orally to multiple audiences.

ACADEMIC HONESTY POLICY: Cheating, plagiarism (submitting another person's material as one's own, or doing work for another person which will receive academic credit) are all impermissible. This includes the use of unauthorized books, notebooks, or other sources in order to secure or give help during an assignment or exam, the unauthorized copying of examinations, assignm

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Length: 3 weeks

Assignments at a glance:

- * 5 Quizzes
- * 2 Individual Response Discussions Boards
- * 1 Open Content Discussion with a minimum of 5 posts/replies
- * Exam 3 last day of 8th week

Week 6: Sept 18- 24

Topics Covered

- * Why are there different environments?
- * What is a population and how do they change over time?

Assignments Due on Sunday 9/24 by 11pm

- * Quiz 9
- * Quiz 10

Week 7: Sept 25 Oct 1

Topics Covered

- * What is a community?
- * How do matter and energy move through ecosystems?

Assignments Due on Sunday 10/1 by 11pm

- * Quiz 11
- * Individual Response Discussion 6
- * Quiz 12

Week 8: Oct 2- Oct 5

Topics Covered

- * Where have all the organisms gone?
- Assignments Due on Thursday 10/5 by 11pm
- * Individual Response Discussion 7
 - * Quiz 13
 - * Open Content Discussion 3 with a minimum of 5 posts/replies

Exam 3 Due on Friday Oct 6 by 8:30am

- * Note, this is a proctored exam. Please make arrangements to have this exam proctored before this date.