

# EVOLUTION AND DIVERSITY OF LIFE BIO1010 Section A

## Syllabus

### COURSE INFORMATION:

- a. Title: Evolution and Diversity of Life (BIOL1010 Section A)
- b. Instructor: Dr. Timothy Henkel ([tphenkel@valdosta.edu](mailto:tphenkel@valdosta.edu))
- c. Office: Bailey Science Center 2212
- d. Office Hours: TTH: 11:00am - 12:00pm and by appointment
- e. processes and relationship

Co

requisite BIOL1020L

### 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/gec/ProposedNewLearningOutcomes.shtml>)

Specifically students will:

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

### COURSE MATERIALS:

Textbook: Biology: Concepts and Investigations Mariëlle Hoefnagels- 2nd ed. (includes access to Connect Website)

Personal Response System ("Clickers"): ResponseCard XT

You are required to have access to the course textbook in order to complete assigned readings.

Readings are to be completed before class in order order



GRADING PROCEDURES Letter grades will be assigned based on the following tables:

Course Component	% of Course Grade
Exams (best 3 of 4)	55%
Homework	15%
In Class Participation	10%
Final Exam	20%
Total	100%

Final Letter Grade

A: 90 – 100%

B: 80 – 89%

C: 70 – 79%

D: 60 – 69%

F: < 60%

Exams: There are four regular exams scheduled throughout the semester, each will cover the material from the end of the previous exam through the current exam. The lowest exam score of the four exams will not be included in your final grade calculation. The final exam is scheduled during the final exam period of ... of

**ACCESS OFFICE** Students requesting classroom accommodations or modifications due to a documented disability must contact the Access Office for Students with Disabilities located in the Farber Hall. The phone numbers are 245 2498 (V/VP) and 219 1348 (TTY).

**FEDERAL PRIVACY ACT:** It is illegal to release personal information about an individual to others. Therefore grades, averages and other personal information about any person will not be released to another person or over email.

**STUDENT SUCCESS CENTER:** The Student Success Center (SSC) at Valdosta State University is located in Langdale Residence Hall above the Tech Shop and is available to all students. The SSC provides free peer tutoring in core curriculum courses including biology, chemistry, math, writing, and foreign languages. The SSC also provides free professional academic advising and on campus job information in one location. Call 333 7570 to make an appointment, or visit the website: [www.valdosta.edu/ssc](http://www.valdosta.edu/ssc)

## Tentative Topics and Reading Assignments

Date	Topic	Chapter Reading	
Aug	13	How will this coursework?	
	15	How is science a way of knowing?	1
	20	Why are there different environments?	38
	22	What is a population?	36
	27	How do populations grow?	36
Sept	3	Exam 1	
	5	What is a community?	37
	10	How do trophic interactions alter community structure?	37
	12	How do communities change?	37
	17	How do matter and energy move through ecosystems?	37
	19	Exam 2	
	24	What makes organisms different?	7
	26	Why do populations evolve?	11
	1	How can we determine if a population is evolving?	11
	8	How do populations evolve?	11
Oct	10	What is a species?	13
	15	Exam 3	
	17	How can we classify organisms?	12
	22	What is the evidence for evolution?	12
	24	Prokaryotes & Protists	16; 17
	29	Protists & Fungi	19
	31	Exam 4	
	5	Plants	18
Nov	7	Animals	20
	12	Where have all the organisms gone?	39
	14	Bringing it all together	
	19		
	21		
Dec	4	Final Exam 10:15am-12:15pm	

Exam Dates are Set and will NOT change. The schedule of topics is tentative and may be changed.